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June 10, 2015

Mr. Jerry Wickham  
Alameda County Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

**RECEIVED**

By Alameda County Environmental Health 12:01 pm, Jun 11, 2015

**Subject: Perjury Statement and Report Transmittal  
Interim Remediation Status Report**  
10700 MacArthur Blvd.  
Oakland, California  
AEI Project # 261829  
Toxics Case No. RO0002580

Dear Mr. Wickham:

I declare under penalty of perjury, that the information and/or recommendations contained in the attached report for the above-referenced site are true and correct to the best of my knowledge.

If you have any questions or need additional information, please do not hesitate to call me at (510) 562-9500, or Mr. Peter McIntyre at AEI Consultants, (925) 746-6004.

Sincerely,

MACARTHUR BOULEVARD ASSOCIATES  
(a California limited partnership)

BY: JAY-PHARES CORPORATION  
(Its Management Agent)

By:   
John Jay, President

cc: Mr. Peter McIntyre, AEI Consultants, 2500 Camino Diablo, Walnut Creek, CA 94597

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10700 MacArthur Blvd., Suite 200, Oakland, CA 94605-5260  
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# AEI Consultants

Environmental & Engineering Services

June 10, 2015

## INTERIM REMEDIATION STATUS REPORT

**Property Identification:**

10700 MacArthur Boulevard  
Oakland, California 94605

AEI Project No. 261829  
Toxics Case No. RO0002580

**Prepared for:**

Jay-Phares Corporation  
Attn: Mr. John Jay  
10700 MacArthur Blvd., Suite 200  
Oakland, CA 94605

**Prepared by:**

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June 10, 2015

Jay-Phares Corporation  
Attn: Mr. John Jay  
10700 MacArthur Blvd., Suite 200  
Oakland, California 94605

**Subject: Interim Remediation Status Report**

10700 MacArthur Boulevard  
Oakland, California 94605  
AEI Project No. 261829  
Toxics Case No. RO0002580

Dear Mr. Jay:

AEI Consultants (AEI) has prepared this *Interim Remediation Status Report* on behalf of the Jay-Phares Corporation (client) for the property located at 10700 MacArthur Boulevard in the City of Oakland, Alameda County, California ("the Site"). AEI has been retained by the client to provide environmental engineering and consulting services specifically relating to the chlorinated volatile organic compounds (CVOCs) associated with the former dry cleaning facility at the Site. The completed work was originally proposed in AEI's *Site Mitigation Plan* dated November 20, 2007, with addendums included in AEI's *Work Plan for Pilot Study* dated March 7, 2008, *Work Plan for Pilot Study – Addendum* dated May 8, 2008, and *Supplemental Soil Vapor Investigation Report* dated June 25, 2008. The scope of work was approved by the Alameda County Environmental Health Department (ACEHD) in a letter dated July 10, 2008.

The completed activities which are detailed in the below report include:

- Permitting and installing soil vapor extraction (SVE) well VE-1;
- Permitting and installing 10 nested soil vapor monitoring points set at both 5 feet below ground surface (bgs), identified as VM-1 through VM-10, and directly beneath the concrete slab, identified as SS-1 through SS-10;
- Permitting and installing a dual SVE and sub-slab depressurization (SSD) interim treatment system;
- Sampling of the vapor probes prior to system commencement; and,
- Performing initial system startup activities and ongoing system operation and maintenance (O&M) activities.

## **1.0 SITE DESCRIPTION AND BACKGROUND**

The Site is approximately 13.5 acres in size and is currently developed with the Foothill Square Shopping Center. The area of concern is the former Young's Cleaners, located on the northwestern side of the property as shown on Figure 2.

The Site is situated in a urban mixed commercial and residential area of Oakland, and bound by MacArthur Boulevard to the west, Foothill Boulevard to the east, and 108th Avenue to the south. An ARCO gasoline station is located adjacent to the northwest and residences to the north.

Construction of the shopping center began in the early 1960s. Additions to the original center continued through the 1970s, including the construction of a gas station at the southeastern corner in 1970. This gas station was operated by USA Petroleum which ceased operations and was eventually demolished in 1994. Case closure was granted for the gasoline station in 2013. In 2013 major renovations began at the site and included the remodeling of the majority of the Site and construction of several new buildings. The construction activities were completed in 2014 resulting in the current Site configuration.

Between 1984 and 1995, Young's Cleaners, a dry-cleaning business, operated in one of the units of the shopping center, located at the southwestern end of the northern building (Figure 2). A release of PCE was discovered as part of an off-site investigation, which was later traced to Young's Cleaners. Below is a chronology of discovery, investigation, and mitigation of the release.

### **1.1 Preliminary Investigations**

In August 1988, Kaldveer Associates performed a Preliminary Soil and Groundwater Quality Testing Program at the Site. Fifteen soil borings were drilled to depths of 11.5 to 36.5 bgs around the perimeter of the Site. The investigation focused on past use of the Site as a truck manufacturing facility, the then operating USA Gasoline Station on the southeast corner of the Site, and an ARCO service station adjacent to the north west corner of the Site. The result of the analytical program indicated the presence of hydrocarbons in the soil and groundwater in the northwest corner of the Site, adjacent to the ARCO station.

WGR installed five groundwater monitoring wells (WGR-MW-1 through WGR-MW-5) on the shopping center property in January, 1989. Soil and groundwater samples confirmed the presence of petroleum hydrocarbons in the northwest corner of the Site. Groundwater samples from well WGR-MW-2 and WGR-MW-3, contained low concentrations of 1,1-trichloroethane. Wells WGR-MW-1, WGR-MW-2, WGR-MW-3 and WGR-MW-5 were installed in what was described as the "shallow" groundwater zone, described as between 20 to 35 feet bgs. Well WGR-MW-4 was installed in what was described as the "deeper" groundwater zone, with the well screen set from 25 to 45 feet bgs.

RESNA conducted several investigations of the ARCO service station between 1991 and 1993 to define the extent of the petroleum hydrocarbon release that occurred on that property. During their investigations, RESNA detected CVOCs in several of their borings and wells. On March 23,

1993, the ACHCS requested that the vertical and lateral extent of tetrachloroethene (PCE) contamination, discovered on the shopping center by RENSA while investigating the ARCOR release, be investigated by the shopping center owners.

## **1.2 Exploratory Excavation - 1994**

In May 1994, Augeas performed an exploratory excavation within the Young's Cleaners location. Approximately eight cubic yards of soil were removed from Site of the dry cleaning machines. An area approximately 1.5 feet deep and 6 feet by 8 feet was excavated by the south wall of the facility. Augeas collected 4 soil samples (SB-1 through SB-4) from the floor and sidewalls of the shallow excavation which were analyzed using US EPA Testing Method 8240. PCE was detected in these samples at concentrations ranging from 890 milligrams per kilogram (mg/kg) (SB-1) to 9,100 mg/kg (SB-2). Sample SB-2 was located approximately three feet directly below a floor drain that was shown by Augeas to be connected to the sanitary sewer.

In July 1994, the excavation was extended four feet to the west and deepened to approximately four feet bgs. On August 29, 1994, Augeas collected eight additional soil samples (H-1 through H-8) from floor and sidewalls of the excavation. PCE was reported at concentrations ranging from 1.4 mg/kg (H-2) to 5.0 mg/kg (H-3).

## **1.3 Site Characterization – 1994 to 1995**

Between September and November 1994, Augeas drilled seven soil borings and three groundwater monitoring wells on the site. Boring B-1 was drilled to a depth of 5 feet bgs and borings B-2 through B-7 to depths of 21 to 25 feet bgs. One well AMW-1 was drilled near the back of Young's Dry Cleaners and two (AMW-2 and AMW-3) near the front of the facility.

Augeas reported PCE soil contamination in 5 of the soil borings (B-3 through B-7) and monitoring wells AMW-2 and AMW-3 at concentrations ranging from 0.012 mg/kg (B-3) to 90 mg/kg (AMW-2).

PCE was detected in groundwater samples from soil borings B-4 through B-6 at concentrations ranging from 870 micrograms per liter ( $\mu\text{g/L}$ ) to 11,000  $\mu\text{g/L}$ . No chlorinated solvents were detected in the groundwater sample from well AMW-1. The groundwater sample from well AMW-2, located in front of the drycleaners, adjacent to the sanitary sewer line was reported to contain PCE, trichloroethylene (TCE), cis & trans-1,2-dichloroethylene (cis-1,2-DCE), (trans-1,2 -DCE), 1,1-DCE and c-1,3-DCP at concentrations of 35,000  $\mu\text{g/L}$ , 320  $\mu\text{g/L}$ , 110  $\mu\text{g/L}$ , 50  $\mu\text{g/L}$ , 8  $\mu\text{g/L}$  and 4.2  $\mu\text{g/L}$ , respectively. Total petroleum hydrocarbons as Stoddard solvent (TPHs) was also reported in the groundwater sample from AMW-2.

In March 1995, Augeas installed two additional wells, AMW-4 and MW-5. Wells AMW-6 through AMW-9 were installed in July through August 1995. Based on the investigations, Augeas concluded that the PCE contamination centered on the Young's Cleaners, and was caused by a release of solvents from the drycleaner and associated sanitary sewer line in front of the facility. They also concluded that the extent of soil contamination was not wide spread. Augeas recommended that the PCE affected soil be excavated, thereby removing the source. Augeas expected this to result in reduction of PCE and other contaminant concentrations in the groundwater over time.

#### **1.4 Source Excavation – 1995 to 1996**

Between October 1995 and January 1996, AEI excavated PCE contaminated soil from beneath the Young's Cleaners and adjacent tenant spaces and around the sanitary sewer. Upon removal, the excavation was backfilled with clean imported fill. The lateral and vertical extent of the contamination was found to be greater than initially estimated by Augeas. Augeas initially recommended removal of soil with PCE concentrations in excess of 1.0 mg/kg. During excavation, PCE dechlorination products were identified for the first time in soil and the clean-up goal was revised to a total VOC concentration of 1.0 mg/kg. The resulting excavation extended into adjacent tenant spaces and required the removal of approximately 2,500 cubic yards of affected soil. During excavation activities, wells AMW-2 and AMW-3 were properly abandoned and destroyed.

This action was successful in removing a significant volume of highly impacted soil from the source area. However, several areas with residual total VOC concentrations above the 1.0 mg/kg goal remained at the final extent of excavation: 1) The northwest corner of the Young's Cleaners space, where total VOCs were 1.8 mg/kg and 1.9 mg/kg at depths of 4 and 8 feet respectively; 2) beneath the breezeway west of the former cleaners where total VOCs were 2.5 mg/kg at a depth of 5 feet; and 3) beneath the breezeway, in front of and east of the former location of Young's Cleaners (near AMW-3), where total VOC of 1.4 mg/kg were reported in the boring at a depth of 25.5 feet bgs (outside of the extent of the excavation).

The excavated soil was spread over the southeaster corner of the property. In February 1996, ten soil samples were collected by AEI from the stockpile and analyzed for VOCs to evaluate baseline concentrations in the stockpile. PCE was detected in these samples at concentrations ranging from ND<5.0 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ) to 380  $\mu\text{g}/\text{kg}$ . TCE was detected in three samples at concentrations ranging from 11  $\mu\text{g}/\text{kg}$  to 38  $\mu\text{g}/\text{kg}$ . No other VOCs were detected in the stockpile.

The soil stockpile was tilled between February 1996 and January 1997. In January 1997 and again in May 1999, stockpile sampling occurred. During the May 1999 sampling, PCE was only detected in one of eight samples, at 28  $\mu\text{g}/\text{kg}$ . Based on the sampling data, limited reuse of the soil was approved.

#### **1.5 Additional Groundwater Investigation and Risk Evaluation**

To assess potential offsite migration of PCE in the groundwater, PES Environmental performed a preliminary investigation consisting of a CPT survey and HydroPunch™ sampling of the groundwater. The survey consisted of obtaining CPT measurements at nine locations (HP-1 through HP-9), to depths of up to 60 feet. Following the collection of the CPT data, water samples were collected from HydroPunch™ borings located within several feet of the CPT locations.

In the "shallow" zone, groundwater samples could not be collected from drilling locations HP-1, HP-3, HP-5 HP-6 and HP-9. Although, the CPT logs indicated that the silts of the "shallow" aquifer were saturated and monitoring wells in this interval are productive, the low transmissivity of the silts and clays prevented groundwater sample collection in this shallow zone using this

sampling technique. PCE was only detected in groundwater at location HP-7, at 230 µg/L. No PCE has been detected in the "shallow" zone in offsite borings.

In the "deep" groundwater zone, PCE was detected in borings HP-0, HP-1, HP-6 and HP-9 at concentrations of 440 µg/l, 20 µg/L, 40 µg/L, and 25 µg/L, respectively. This data indicated that although PCE had been detected at the ARCO station at concentrations up to 2,600 µg/L, only low concentrations of PCE were present in the "deep" groundwater zone west of MacArthur Boulevard and west toward 106<sup>th</sup> Avenue.

PES concluded that the PCE plume had not migrated substantially off site and was stable. They attributed the stability of the plume primarily to natural attenuation. PCE dechlorination products were observed, including TCE and cis- and trans- 1,2-DCE.

An evaluation of risk to human health via migration of contaminant vapors into the occupied building spaces was documented in the February 15, 1996 report prepared by PES. The numerical evaluation modeled the indoor concentrations of the site contaminants (PCE, TCE, 1,1-DCE, 1,2-DCE, cis- and trans-) using residual contaminant concentrations in soil. The modeled indoor air contaminant concentrations were below their respective Preliminary Remediation Goals (PRGs) (US EPA Region IX, 1995) and, therefore, it was concluded that the concentrations of remaining contaminants in the soil did not pose a significant threat to human health. This finding was concurred with by the ACHCS and Regional Water Quality Control Board (RWQCB) in letters dated March 26, 1996 and March 21, 1996, respectively.

Based on the findings of the groundwater investigation, PES recommended that two additional down gradient "sentry" wells be installed to monitor the down gradient edge of the groundwater plume. In July 1997, these two wells (FHS-MW-10 and FHS-MW-11) were drilled and installed at depths of 54.5 and 62.5 feet bgs, respectively. Sampling of these wells began in September 1997. During subsequent groundwater monitoring, PCE was detected in well FHS-MW-10 and FHS-MW-11 at maximum concentrations of 18 µg/L and 12 µg/L, respectively. Monitoring continued on a roughly semi-annual basis through the present.

## **1.6 Additional Investigation & Site Remediation Planning– 2006 to 2008**

On October 11 through October 13, 2006, two soil borings (SB-1 and SB-2) and a total of seventeen (17) soil gas probes (VB-1 through VB-17), each with a shallow boring as well as a deep boring, were advanced by AEI. The investigation was performed at the request of the ACHCS to evaluate the presence of vapor phase contaminants within and around the release area and the possibility of contaminant vapor intrusion. In addition, a groundwater monitoring and sampling event for the existing monitoring well network was performed at this time.

Results of soil vapor sample analyses indicate the presence of subsurface vapor phase contaminants, include PCE, TCE, cis-1,2 DCE, and vinyl chloride. The highest concentrations detected were in the area of the former excavation of impacted soil, likely the result of low concentrations of residual contaminants that remained upon completion of the excavation activities. Vapor phase contaminant concentrations decrease significantly away from the former release area. The data suggests that vapor phase migration along the onsite utility corridor has not occurred.



Following review of this 2006 report by ACHCS, it was determined that site mitigation activities would be necessary to reduce the threat of vapor intrusion from shallow soil vapors from entering the existing buildings at the site, however, an additional soil vapor investigation was needed to further characterize the extent of vapor phase impact prior to finalization of a remedial approach for the residual impact. Subsequently on June 25, 2007, AEI performed the additional soil vapor investigation to further define the extent of the PCE release from the former Young's Cleaners. A total of eight soil gas samples were collected from five additional probe locations to the northeast of the former release area, where previous investigations had been limited. Based on the analyses of the eight additional soil gas samples, it was determined that PCE and related contaminants (TCE, cis-1,2 DCE, trans-1,2 DCE, and VC) have not spread northwest of the release area beneath the existing building. Therefore it was determined that the extent of the contamination is confined to non-detectable concentrations to the east, north, and northwest of the former Young's Cleaners.

On November 20, 2007, AEI submitted a *Site Mitigation Plan* which contained a proposed mitigation plan for the site. Following a county review of the proposal in a letter dated January 10, 2008, site mitigation plans were modified in AEI's *Work Plan for Pilot Study* dated March 7, 2008. Following review of the AEI's work plan, the ACHCS issued a letter dated April 10, 2008 which requested further investigation of the soil vapor beneath the site. A work plan addendum was submitted in May 2008, and the work plan was subsequently approved in a letter dated May 16, 2008. The following report details the additional soil vapor investigation activities approved in the May 16, 2008 letter.

On May 23, 2008, an additional soil vapor investigation was performed to further define the extent of the PCE release from the former Young's Cleaners. A total of seven soil gas samples were collected from additional probe locations in buildings to the south and west of the former release area, where previous investigations had been limited. The original scope of work included a contingency plan for additional step-out borings in the event that significant contaminants were identified in the seven primary borings. Since no impact was identified in these samples, the step-out borings were not performed.

Based on the analyses of the additional soil gas samples, PCE and related contaminants (TCE, cis-1,2 DCE, trans-1,2 DCE, and VC) have been delineated beneath the subject property and no further testing was deemed necessary. Historical soil vapor sampling has defined the extent of impact to non-detectable concentrations to the east, north, northwest, south, and west of the former Young's Cleaners. The 2008 data indicated that mitigation activities are not necessary beyond the previously approved mitigation activities as PCE and related contaminants do not appear to pose a threat for vapor intrusion in the buildings to the west and south of the release area.

Locations of monitoring wells, previous soil borings, and soil vapor sampling locations are presented on Figures 2 and 3.

## **2.0 GEOLOGY AND HYDROGEOLOGY**

The subject site is located on the eastern edge of the East Bay, a broad, gently westward sloping area produced by coalescing alluvial fans and bay margin plains along the eastern shore of San Francisco Bay. In the site vicinity the sediments underlying the surface are mapped as Holocene aged alluvium, consisting of weakly consolidated, slightly weathered poorly sorted, irregularly bedded clay, silt, sand and gravel, interpreted to be primarily alluvial fan and fluvial deposits. These alluvial fan deposits extend westward over the Late Pleistocene Alameda formation, the major basin-filling unit in the area.

On the eastern portion of the site in the vicinity of the former USA station, the alluvial sediments are underlain at depths ranging from 12 to 25 feet bgs by deeply weathered highly fractured silty sandstone, siltstone, claystone and chert. These units are interpreted as bedrock and may be part of the Cretaceous aged Novato Quarry terrain sandstones similar to what is exposed to the north of the northwest of the site along the west side of the Hayward Fault. On the eastern edge of the site, the Hayward fault separates the sediments of the East Bay Plain from the igneous rocks that comprise the western portion of the adjacent San Leandro Hills.

During the 2006 site investigation, soil borings SB-1 and SB-2 revealed the presence of silty clay to the maximum depth explored (18 feet bgs). The silty clay contained varying amounts of sand with a maximum of up to approximately 25% sand content. During the June 2007 soil vapor probe installation, two probes out of five encountered refusal at a depth of 6 feet bgs, northeast of the release area.

### **2.1 Hydrology**

Historically the groundwater had been classified as "shallow" or "deep" aquifers or "zones". The shallow water table has been reported at depths ranging from approximately 10 feet bgs to 25 feet bgs and the deep at depths ranging from approximately 14 feet bgs to 45 feet bgs. AEI interprets the underlying groundwater to represent a single complex aquifer that consists of highly variable sediments ranging from high transmissivity gravel to low transmissivity silt. Wells are completed with well screens of varying lengths installed at varying depths based on were sands, if any, were encountered. This combination of variable screens and sediments results in highly variable and somewhat suspect groundwater elevation data in the wells. Examination of the CPT and well logs show that few if any sands are continuous across the site and that the silts between the sands are apparently water saturated. With this taken into account, the following hydrologic generalizations can be made. Based on the available data, the gradient across the ARCO site appears to be generally to the south. The gradient between the ARCO site and the former Young's dry cleaners appears generally to be to the southwest. The reported gradients at the USA site have been in all directions, both radial internal and external (at times influenced by remedial efforts); however, a southeasterly direction is predominant. These gradients are consistent with the general topography which shows a slight southwesterly swale along the north side of the site and a slight southwesterly nose through the former USA station. These topographic features are likely are reflective of the underlying bedrock topography and would effect shallow groundwater flow. Actual groundwater movement would also preferentially follow higher transmissivity sediments of variable orientations.

Based on groundwater monitoring events performed at the site to date, groundwater in the shallow wells has generally flows towards the west and in the deeper wells groundwater generally flows towards the west/southwest.

### **3.0 DRILLING ACTIVITIES**

Prior to initiating drilling activities, drilling permits were obtained for the SVE well (VE-1) and five foot vapor probes labeled VM-1 through VM-10 (permit numbers W2011-0200 to W2011-0201) from the Alameda County Department of Public Works (ACDPW). Copies of the permits are included in Appendix A. Following permit approval, drilling activities were scheduled and Underground Service Alert-North (USA North) was notified to locate possible underground utilities in the area and a private utility locator cleared each of the boring locations for underground utilities. Subsequently, on August 1, 2012, AEI completed the installation of SVE well VE-1 at the Site to a depth of approximately 12 feet bgs. On December 13, 2012 through December 19, 2013, AEI installed each of the ten nested sub-slab and five foot soil vapor probes.

#### **3.1 SVE Well Installation**

Well VE-1 was installed by Environmental Control Associates (ECA), C-57 License Number 695970, using a truck-mounted hollow stem auger rig turning 8-¼-inch augers to a depth of 12 feet bgs at the location shown on Figure 4. Upon reaching the desired depth, the well was installed by placing a 4-inch diameter, schedule 40 PVC casing with 5-feet of factory slotted 0.020-inch well screen through the augers. An annular sand pack (consisting of clean #3 Monterey Sand) was installed through the augers to approximately 2-feet above the screened interval. A 1-foot bentonite seal was placed above the sand and hydrated with water while the remainder of the well bore was sealed with neat cement grout. The well was connected directly to conveyance piping which was routed to the on-site extraction and treatment system (described in Section 5.0). DWR well registration forms have been completed for the well and has been forwarded to the DWR and ACPWD. A copy of the boring log for VE-1 is included in Appendix B.

Soil cuttings generated during the drilling and well installation activities were stored on-site with soil generated during the trenching activities during system installation. The soil was placed on and covered with visqueen and profiled for disposal. On September 21, 2012, a total of 23 tons of soil was transported to the Class I Buttonwillow disposal facility as RCRA-hazardous waste for disposal.

### 3.2 Soil Vapor Probe Installation

Between December 13, 2012 and December 19, 2013, AEI installed each of the ten nested sub-slab and five foot soil vapor probes. At each of the locations, a sub-slab vapor probe was installed (SS-1 through SS-10) using a Cox-Colvin vapor pin. The sub-slab probes were installed to just below the concrete slab and completed with a stainless steel cover.

Adjacent to each of the sub-slab probes, ECA, under the direction of AEI, installed ten vapor probes to a depth of five feet bgs. To install the probes, a borehole was first drilled to a depth of approximately 5-feet bgs with direct push drilling equipment. The rods were removed and the probes were then constructed within the open borehole using 0.25-inch diameter stainless steel tubing connected to a 6-inch long stainless steel, mesh screen tip. The probe tip was placed in the middle of an annular filter pack composed of #3 Monterey sand placed between 4 and 5-feet bgs. The probe was then sealed with a 1-foot layer of dry granular bentonite followed by hydrated granular bentonite to approximately 1-foot bgs. The remainder of the boring was completed with Portland Type I/II neat cement grout to a depth of approximately 4-inches bgs. A modified cox-colvin vapor pin was connected just below grade to the stainless steel tubing and completed within a stainless steel cover. Soil vapor probe locations are displayed on Figure 4.

### 3.3 Soil Vapor Probe Sampling

Prior to remedial activities, baseline soil vapor samples from each of the vapor probes were collected on January 6, 2014. Vapor samples were collected using a peristaltic pump which was first connected via clean nylaflo™ tubing to the sample port. A tee fitting was then connected to tubing downstream from the sampling pump. Tubing was then connected to the other two openings in the tee fitting system with one end to the photoionization detector (PID) meter or Tedlar bag, and the other end of the tee routed away from the sampler to be used as pressure relief. Once PID readings stabilized, the PID reading was recorded and a sample was collected by closing the pressure relief tubing, which allowed air to flow into the Tedlar bag.

The samples were transferred under chain-of-custody documentation to McCampbell Analytical of Pittsburg, California. The vapor samples were analyzed for PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride by using US EPA Testing Method 8260B.

## 4.0 SAMPLE ANALYTICAL RESULTS

The following information is a summary of the soil vapor sample analytical test results. This information is included in Table 1. Complete results are included in the laboratory analytical report in Appendix D.

### Sub-Slab Samples

- PCE was detected in nine of the ten sub-slab vapor samples at concentrations ranging from 360 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) in SS-2 to 6,600,000  $\mu\text{g}/\text{m}^3$  in SS-9.
- TCE was detected in eight of the ten sub-slab vapor samples at concentrations ranging from 1,000  $\mu\text{g}/\text{m}^3$  in SS-8 to 2,500,000  $\mu\text{g}/\text{m}^3$  in SS-9.

- cis-1,2-DCE was detected in five of the ten sub-slab vapor samples at concentrations ranging from 2,500  $\mu\text{g}/\text{m}^3$  in SS-8 to 1,100,000  $\mu\text{g}/\text{m}^3$  in SS-9.
- trans-1,2-DCE was detected in three of the ten sub-slab vapor samples at concentrations ranging from 2,300  $\mu\text{g}/\text{m}^3$  in SS-4 to 180,000  $\mu\text{g}/\text{m}^3$  in SS-9.
- Vinyl Chloride was detected in one of the sub-slab vapor samples, SS-9 at a concentration of 240,000  $\mu\text{g}/\text{m}^3$ .

#### 5 Foot Samples

- PCE was detected in nine of the ten five foot vapor samples at concentrations ranging from 470  $\mu\text{g}/\text{m}^3$  in VM-10 to 4,300,000  $\mu\text{g}/\text{m}^3$  in VM-9.
- TCE was detected in nine of the ten five foot vapor samples at concentrations ranging from 280  $\mu\text{g}/\text{m}^3$  in VM-10 to 5,800,000  $\mu\text{g}/\text{m}^3$  in VM-5.
- Cis-1,2-DCE was detected in six of the ten five foot vapor samples at concentrations ranging from 1,700  $\mu\text{g}/\text{m}^3$  in VM-8 to 8,800,000  $\mu\text{g}/\text{m}^3$  in VM-5.
- Trans-1,2-DCE was detected in three of the ten five foot vapor samples at concentrations ranging from 9,100  $\mu\text{g}/\text{m}^3$  in VM-4 to 2,400,000  $\mu\text{g}/\text{m}^3$  in VM-5.
- Vinyl Chloride was detected in two of the ten five foot samples at a concentration of 130,000  $\mu\text{g}/\text{m}^3$  in VM-9 and 18,000,000  $\mu\text{g}/\text{m}^3$  in VM-5.

## **5.0 SYSTEM INSTALLATION AND COMMENCEMENT**

Details of the proposed system installation were generally described in AEI's Supplemental Soil Vapor Investigation Report dated June 25, 2008. As described in the report, communication testing was performed to determine the anticipated radius of influence for the SSD system to allow for the system to be appropriately sized and designed. Work was completed in phases to accommodate site redevelopment construction activities. System installation activities are described below.

### **5.1 Permitting**

Prior to installing the system, an Authority to Construct was obtained from the Bay Area Air Quality Management District (BAAQMD) originally on July 20, 2011 and renewed on July 31, 2013 (Application No. 23174). The final permit to operate was issued by the BAAQMD on March 17, 2014 with a change in permit conditions obtained July 14, 2014. The permit was renewed on March 21, 2015 and currently expires on January 1, 2016. A copy of the BAAQMD permits are included in Appendix A.

### **5.2 Equipment and Materials**

AEI designed and constructed a custom SSD/SVE remedial unit for use at the Site based on the specifications obtained during the communication testing. The unit consists of two blowers, one for the SSD system which consists of a 4.6 horse power regenerative blower system capable of variable flow rates up to approximately 160 actual cubic feet per minute (acfm) and vacuum levels up to a maximum of approximately 150 inches of water column (in-H<sub>2</sub>O) and one for the SVE system which consists of a 1.25 horse power regenerative blower system capable of variable flow rates up to approximately 35 acfm and vacuum levels up to a maximum of approximately

175 in-H<sub>2</sub>O. Each blower is equipped with a variable frequency drive (VFD) and a 50-gallon knock-out tank which contains a high level water switch to trigger system shut down when water accumulates in the knock-out tank.

Magnehelic<sup>®</sup> differential pressure gauges are used to measure the applied vacuums and pressure changes at the monitoring points. The airflow rates are measured at the outlet of the blower (after the vacuum relief valve) using a Dwyer DS300 in-line flow sensor (averaging pitot tube).

Abatement of the extracted VOC laden soil vapor is performed using activated carbon prior to discharge to the atmosphere. Initially, AEI installed four, 200 pound carbon drums on the vacuum side of the blower system, two for each blower. The vapor concentrations are measured with a mini-RAE PID with a resolution of 0.1 part per million by volume (ppmv).

### 5.3 Piping and Equipment Setup

Between July 30, 2012 and August 1, 2012, AEI performed the extraction sump installation and trenching and conveyance piping for the SSD/SVE system. Initially, concrete was saw-cut and removed by others in areas outlined by AEI. Once the concrete was removed, trenches were excavated by AEI to a depth of 18-inches. In areas where an extraction sump was located, an approximately 20 inch long, 4 inch diameter 0.020 slotted screen was placed within 3/4 inch clean gravel. In areas where conveyance piping was located, approximately 4 inches of clean sand were placed, on which the 4 inch diameter, schedule 40 PVC conveyance piping was placed. Approximately 4 inches of clean sand was then placed on top of the pipe, following which baserock was placed to approximately 4 inches bgs. Piping was run to a common location within the proposed system extraction room (Figure 4). Following trenching activities, concrete finishing was performed by others. Initially visqueen was placed on top the base rock, concrete was poured to match the surrounding surface.

The individual PVC risers from each well were routed to a common PVC manifold with individual shut off valves and a sampling port on each well or sump. Power for the system is pulled from the existing main service panel on-site, to provide a constant source of power for the system.

### 5.4 System Commencement

The SVE system commenced operation on January 14, 2014 and ran through January 17, 2014. The system was turned off at that time to comply with BAAQMD permit guidelines which required daily operation and maintenance. When AEI returned to the site to commence operation on January 21, 2014, electrical power was off due to ongoing construction. The system remained off until March 3, 2014 at which time electricity was available again to the unit and the system was restarted.

The system was set to extract from all six extraction sumps and well VE-1 concurrently. Upon startup, a total flow of approximately 109 cfm with a vacuum of approximately 20 in-H<sub>2</sub>O was measured in the SSD system. The SVE system was reported to remove approximately 2 cfm with a vacuum of 36 in-H<sub>2</sub>O which was consistent until system adjustments were made on March 3, 2014 which increased the flow to 17 cfm under approximately 110 in-H<sub>2</sub>O vacuum. These readings were relatively consistent during system operation through May 7, 2015 (Appendix E).

The system was programmed to run continuously and changes to the extraction sumps/wells have not been made during system operation.

## 5.5 System Inspection

Upon system commencement, AEI implemented daily equipment inspection in accordance with BAAQMD permit conditions. The BAAQMD approved a decrease in inspection frequency to weekly on March 13, 2014 and to monthly on July 14, 2014. Monthly operation and maintenance at a minimum has been performed since July 2014. During site inspections, at a minimum, AEI collected readings including the system runtime, airflow rates, system vacuum, water in the knock-out tank, general system operation data, and PID readings from before, between, and after the activated carbon treatment train to assure that PCE was adequately removed from the effluent. Influent samples have been turned into the laboratory on a monthly basis as well to assist in mass removal estimates. In addition, during monthly inspections, AEI periodically records induced vacuum readings to assess system vacuum influence.

During monthly readings, elevated PID readings were observed between the influent and mid carbon drums on March 27, 2014 and June 16, 2014. Therefore, following each of these events, the initial carbon drum was removed from the line, the second drum was moved to the first drum, and a new carbon drum was installed as the second drum. Furthermore, due to elevated vinyl chloride concentrations, on April 3, 2014 a 400 pound drum of KMN air purification media which is impregnated with 6% potassium permanganate was installed as the initial abatement device in the SVE line.

On June 6, 2014, based on conversations with the BAAQMD, the abatement process was altered to the current configuration. This involved removing the primary carbon drum from the SVE line so that each system has two abatement devices prior to going through the blowers. These drums are kept in place as a primary treatment device, but not considered as part of the system based on the BAAQMD permit. Thus, two new carbon drums were placed inline after manifolding the inlet streams together for one "influent" source on the effluent side of the blower. For permitting purposes, this is considered by the BAAQMD as the "system influent", "system mid", and "system effluent". The existing process flow diagram is included as Figure 5.

The system is currently operation and as of May 7, 2015, the SSD system has operated for a total of approximately 10,412.5 hours, and the SVE system has operated for a total of 9,667.1 hours. The field data collected from the system operation during site visits are summarized in tabular form and included in Appendix E.

## 5.6 Influent PCE Concentrations and SVE Mass Removal Estimates

### SSD System

Initially, in the SSD system, the combined influent PCE concentration was reported at 18 µg/L which resulted in an estimated removal of 0.17 pounds per day of PCE from the subsurface. After approximately 300 hours of system operation, the PCE concentration decreased to 2.5 µg/L resulting in an estimated removal rate of 0.024 pounds per day. PCE concentrations and mass

removal rates have increased since that time, but remained below the initial removal rates. Based on these calculations, the SSD system has removed approximately 24.2 pounds of PCE to date. Table 3 presents the operational data and mass removal estimates for the SSD system and laboratory analytical reports are included in Appendix D.

### SVE System

Initially, in the SVE system, the combined influent PCE concentration was reported at 670 µg/L which resulted in an estimated removal of 0.131 pounds per day of PCE from the subsurface. After approximately 487 hours of system operation, the PCE concentration decreased to 2.5 µg/L resulting in an estimated removal rate of 0.15 pounds per day. PCE concentrations and mass removal rates have remained relatively consistent since that time, and based on these calculations, the SVE system has removed approximately 50.3 pounds of PCE to date.

Mass removal estimates and operation information for the SVE system are summarized in Table 4, and analytical reports for system influent analysis are included in Appendix D.

## **5.7 Vacuum Measurements**

The goal of the SSD system is to create a negative pressure gradient beneath the concrete slab in areas where elevated PCE is present. Therefore, during system O&M activities, vacuum readings have been collected from each of the sub-slab monitoring points. Vacuum readings are collected using an Infiltec digital micro-manometer capable of measuring 0.001 inches of water pressure differential. The target effective ROI ( $ROI_e$ ) was -0.01 inches of water as the minimum acceptable induced vacuum to eliminate vapor intrusion potential due to pressure differential<sup>1</sup>.

Vacuum readings from the sub-slab probes collected on April 17, 2015, which is relatively consistent with historical data, were measured ranging from 0.005 in-H<sub>2</sub>O in SS-8 to 0.302 in-H<sub>2</sub>O in SS-10. The only sub-slab probe which did not exceed the 0.01 in-H<sub>2</sub>O vacuum goal was SS-8. Based on this data, it can be concluded that the SSD system is effectively creating a negative pressure gradient beneath the concrete slab as intended. Refer to Figure 4 and Appendix E for vacuum measurement data.

## **6.0 SUMMARY AND RECOMMENDATIONS**

On January 6, 2014, AEI collected sub-slab and 5 foot soil vapor samples throughout the area of known PCE impact. The soil vapor samples further confirmed elevated PCE impact beneath the Site and is being used for baseline PCE concentrations prior to remedial efforts. Subsequently, on January 14, 2014, AEI commenced operation of the SSD/SVE system which ran through January 17, 2014. The system was restarted on March 3, 2014 and has generally been in operation since that time. The goal of the system is to both reduced CVOC mass beneath the site, and create a negative pressure gradient to reduce the threat for vapor intrusion. The following summary can be concluded regarding system operation:

---

<sup>1</sup> USEPA, Engineering Issue, *Indoor Air Vapor Intrusion Mitigation Approaches*, 2009.  
Arcadis, *Efficient Assessment and Mitigation of Vapor Intrusion*, August 18, 2010.



- An estimated 74.5 pounds of PCE have been removed by the SVE and SSD systems as of May 7, 2015.
- The SSD system is successful at creating a negative pressure gradient beneath the portion of the Site with elevated CVOCs.
- Carbon drums have been successful at treating vapors in accordance with the BAAQMD permit guidelines.

The system has operated for over a year, and AEI recommends the following actions to further assess the system effectiveness:

- AEI recommends shutting down the SSD and SVE system and waiting 30 days for the vapor to equilibrate beneath the concrete slab.
- After 30 days, AEI recommends collecting soil vapor samples from each of the existing soil vapor monitoring points (SS-1 through SS-10 and VM-1 through VM-10). This data will be compared with the baseline data to further evaluate current CVOC concentrations in soil vapor following over one year of remediation.
- Once the data has been obtained, if elevated CVOC concentrations remain, the system will be re-started and operated in its current configuration for another six months at which time the system operation will be re-evaluated. If CVOC concentrations have significantly decreased, AEI will provide a work plan detailing plans for further rebound analysis to assess the need for continued remediation.

## **7.0 Report Limitations and Signatures**

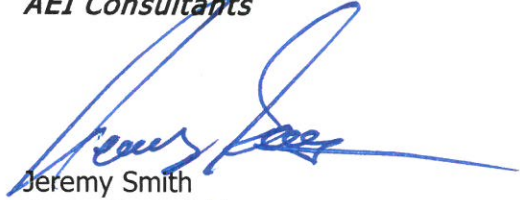
This report has been prepared by AEI Consultants relating to the environmental release at the property located at 10700 MacArthur Boulevard, Oakland, Alameda County, California. Material samples have been collected and analyzed, and where appropriate conclusions drawn and recommendations made based on these analyses and other observations. This report may not reflect subsurface variations that may exist between sampling points. These variations cannot be fully anticipated, nor could they be entirely accounted for, in spite of exhaustive additional testing. This document should not be regarded as a guarantee that no further contamination, beyond that which could have been detected within the scope of past investigations is present beneath the property or that all contamination present at the site will be identified, treated, or removed. Undocumented, unauthorized releases of hazardous material(s) and petroleum products, the remains of which are not readily identifiable by visual inspection and/or are of different chemical constituents, are difficult and often impossible to detect within the scope of a chemical specific investigation and may or may not become apparent at a later time. All specified work has been performed in accordance with generally accepted practices in environmental engineering, geology, and hydrogeology and performed under the direction of appropriate California registered professionals.

June 10, 2015  
AEI Project No. 261829  
Page 15 of 15

Please contact either of the undersigned at (925) 746-6000 if you have any questions or need any additional information.

Sincerely,

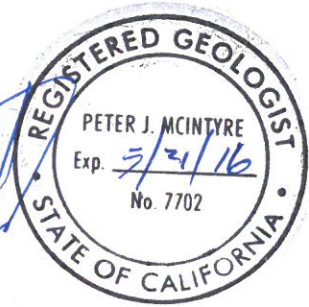
**AEI Consultants**



Jeremy Smith  
Senior Project Manager



Peter McIntyre, PG  
Executive Vice President



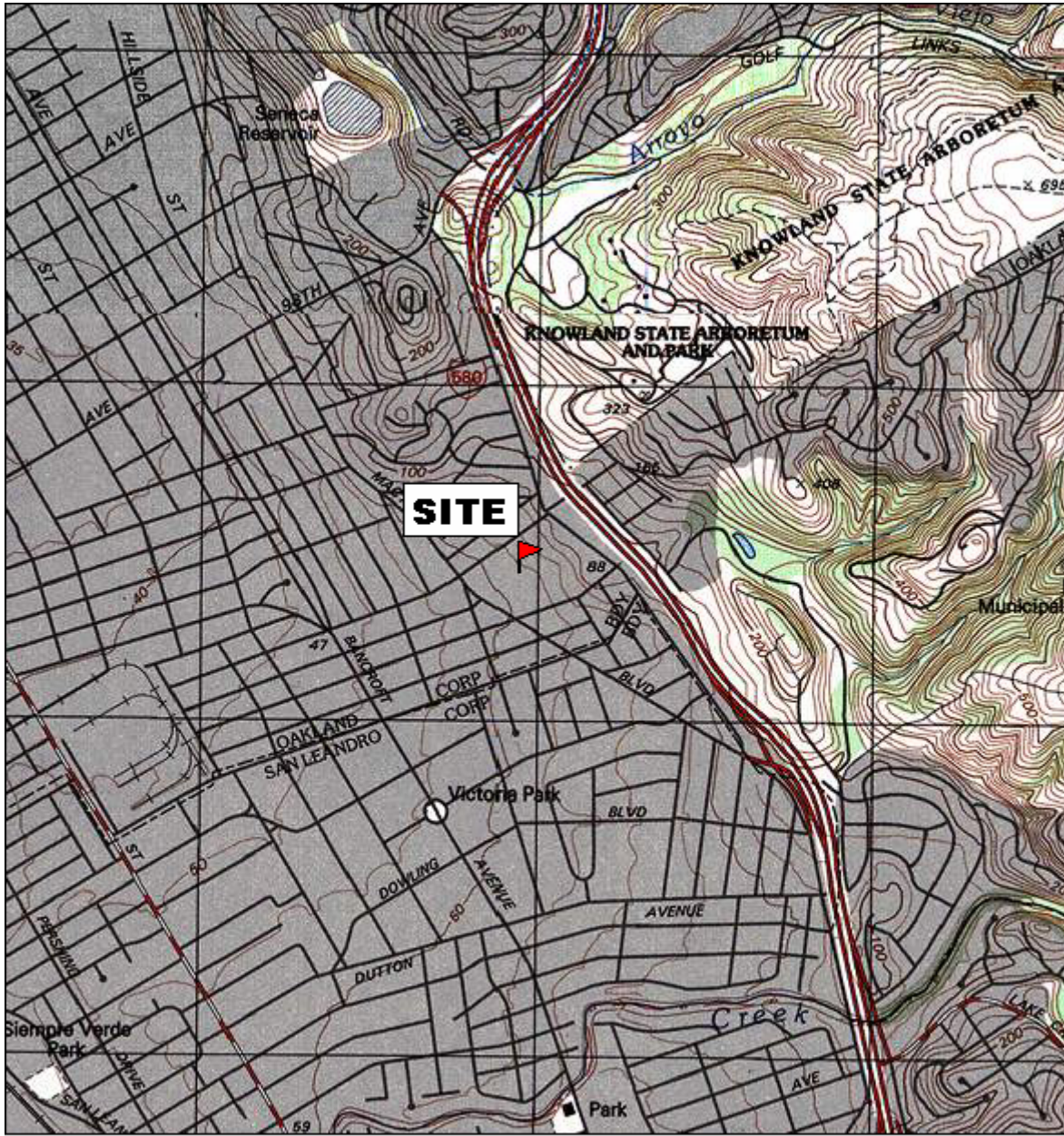
Distribution :

Mr. Jerry Wickham, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502 (electronic copy)

Jay-Phares Corporation, Attn; John Jay, 10700 MacArthur Blvd., Oakland, California 94605

Geotracker electronic upload

## FIGURES

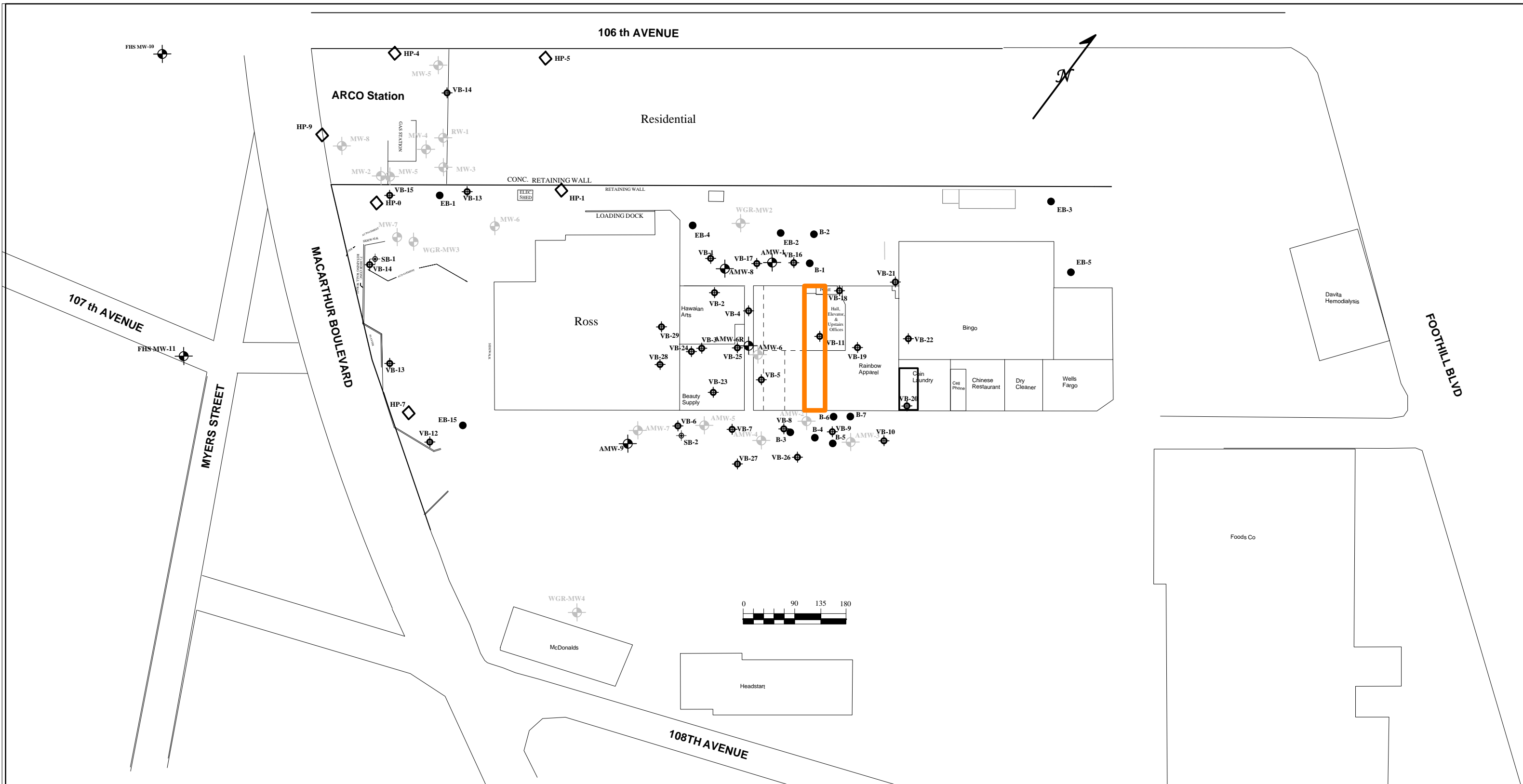


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<b>AEI CONSULTANTS</b> 2500 Camino Diablo, Suite 200, Walnut Creek, CA 94597	
<b>SITE LOCATION MAP</b>	
10700 MACARTHUR BLVD OAKLAND, CALIFORNIA	<b>FIGURE 1</b> PROJECT No. 261829

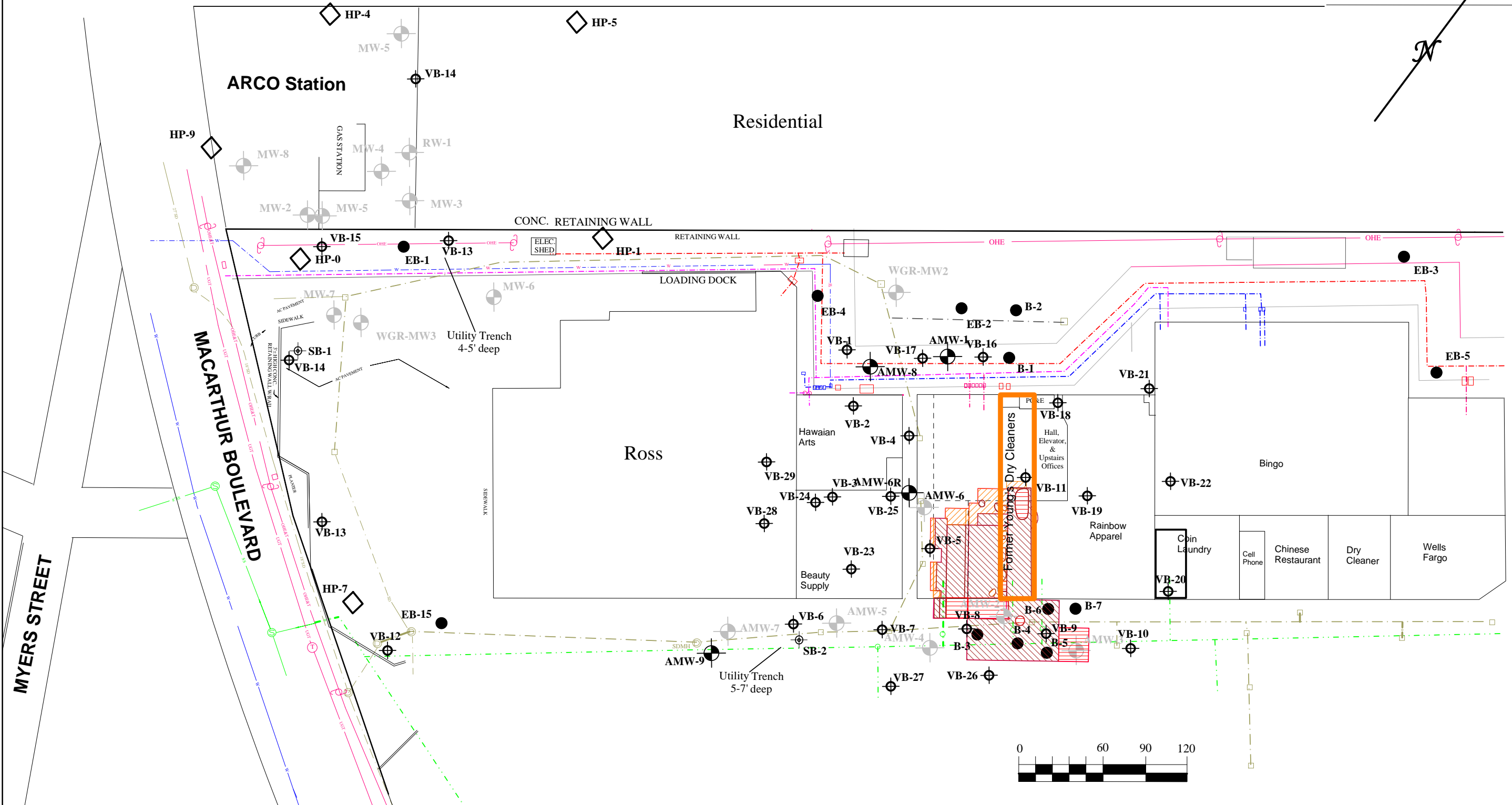
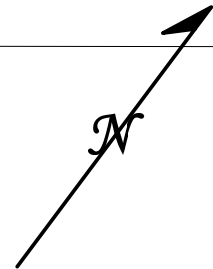


- KEY**
- EB-1 ● Soil Boring - Kaldveer 1988
  - B-1 ● Soil Boring - Augeas 1994
  - HP-8 ◊ CPT Boring/HydroPunch Sample - PES 1997
  - MW4 ● Groundwater Monitoring Well
  - MW4 ◐ Abandoned Groundwater Monitoring Well
  - MW4 ⊕ Soil Boring - AEI 2006

- ◻ Former Dry Cleaner Location
- ⊕ Soil Vapor Sample

Drafted 6/30/05 - RFF on Dirk Slooten base  
 Revised 05/15 by J.SMITH

<b>AEI CONSULTANTS</b>	
2500 CAMINO DIABLO, WALNUT CREEK, CA	
<b>EXTENDED SITE PLAN</b>	
10700 MACARTHUR BLVD. OAKLAND, CALIFORNIA	<b>FIGURE 2</b> PROJECT NO. 261829



- KEY**
- EB-1 ● Soil Boring - Kaldveer 1988
  - B-1 ● Soil Boring - Augeas 1994
  - HP-8 ◊ CPT Boring/HydroPunch Sample - PES 1997
  - MW4 ● Groundwater Monitoring Well
  - MW4 ○ Abandoned Groundwater Monitoring Well
  - ⊕ Soil Vapor Sample
  - ⊙ Soil Boring - AEI 2006

- Excavated to depth of 5 to 7 feet bgs
- Excavated to depth of 8 to 13 feet bgs
- Excavated to depth of 14 to 18 feet bgs

- On Site Storm Drain
- Off Site Storm Drain
- On Site Sanitary Sewer
- Off Site Sanitary Sewer
- On Site Underground Power
- On Site Gas Line

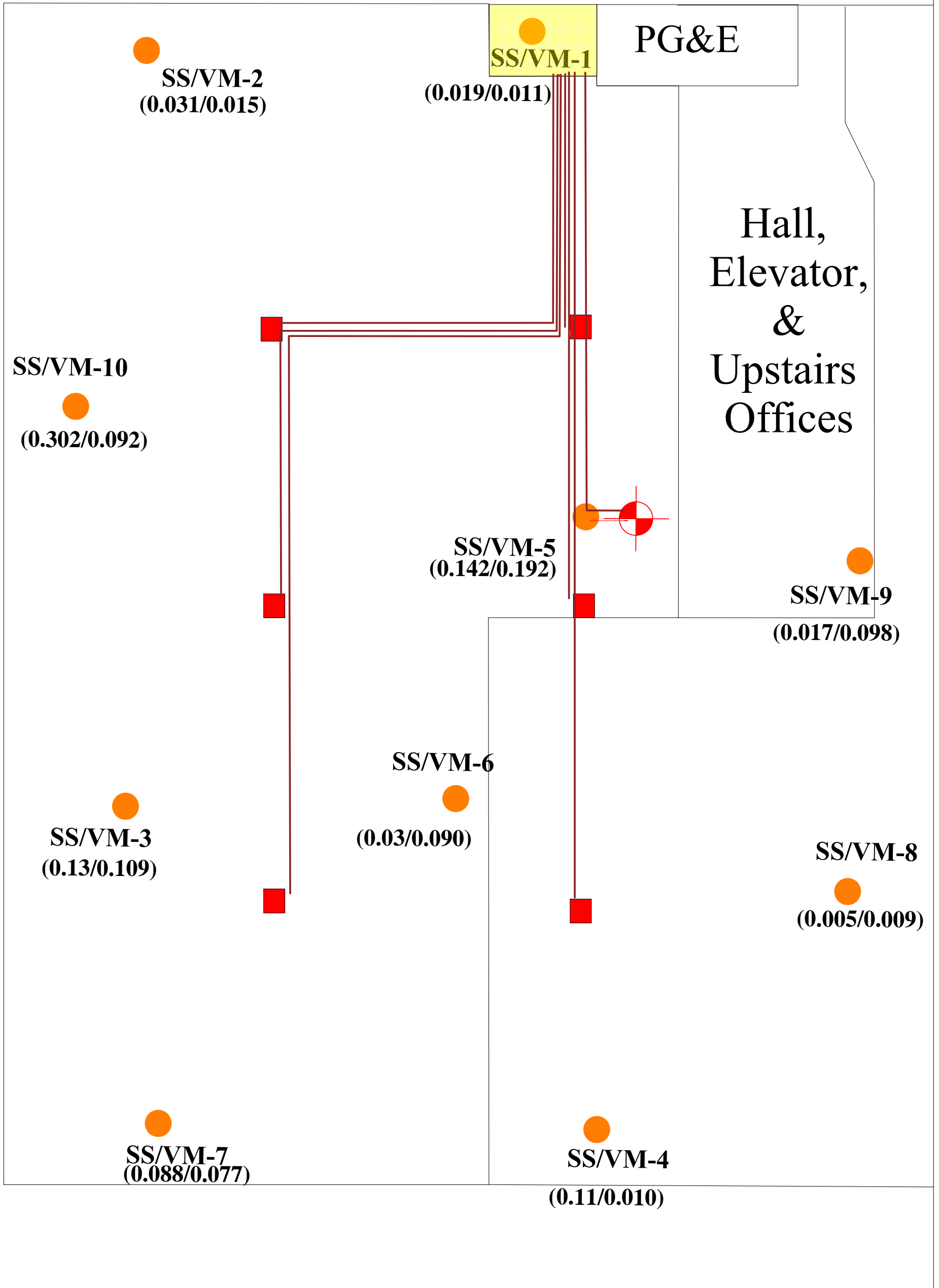
Drafted 6/30/05 - RFF on Dirk Slooten base  
 Revised 05/15 by J.SMITH

**AEI CONSULTANTS**  
 2500 CAMINO DIABLO, WALNUT CREEK, CA

**SITE PLAN**

10700 MACARTHUR BLVD.  
 OAKLAND, CALIFORNIA


**FIGURE 3**  
 PROJECT NO. 261829




**KEY**


 Remediation Sump (2' x 2' x 18")

 Vapor Extraction Well

 AEI Equipment Room

 Former Walls

 Vacuum Readings  
(0.102/0.023) (Sub-slab/5') inches of water (collected 4/17/15)

 Conveyance Piping  
\*All Trenching ~ 18 Inches deep

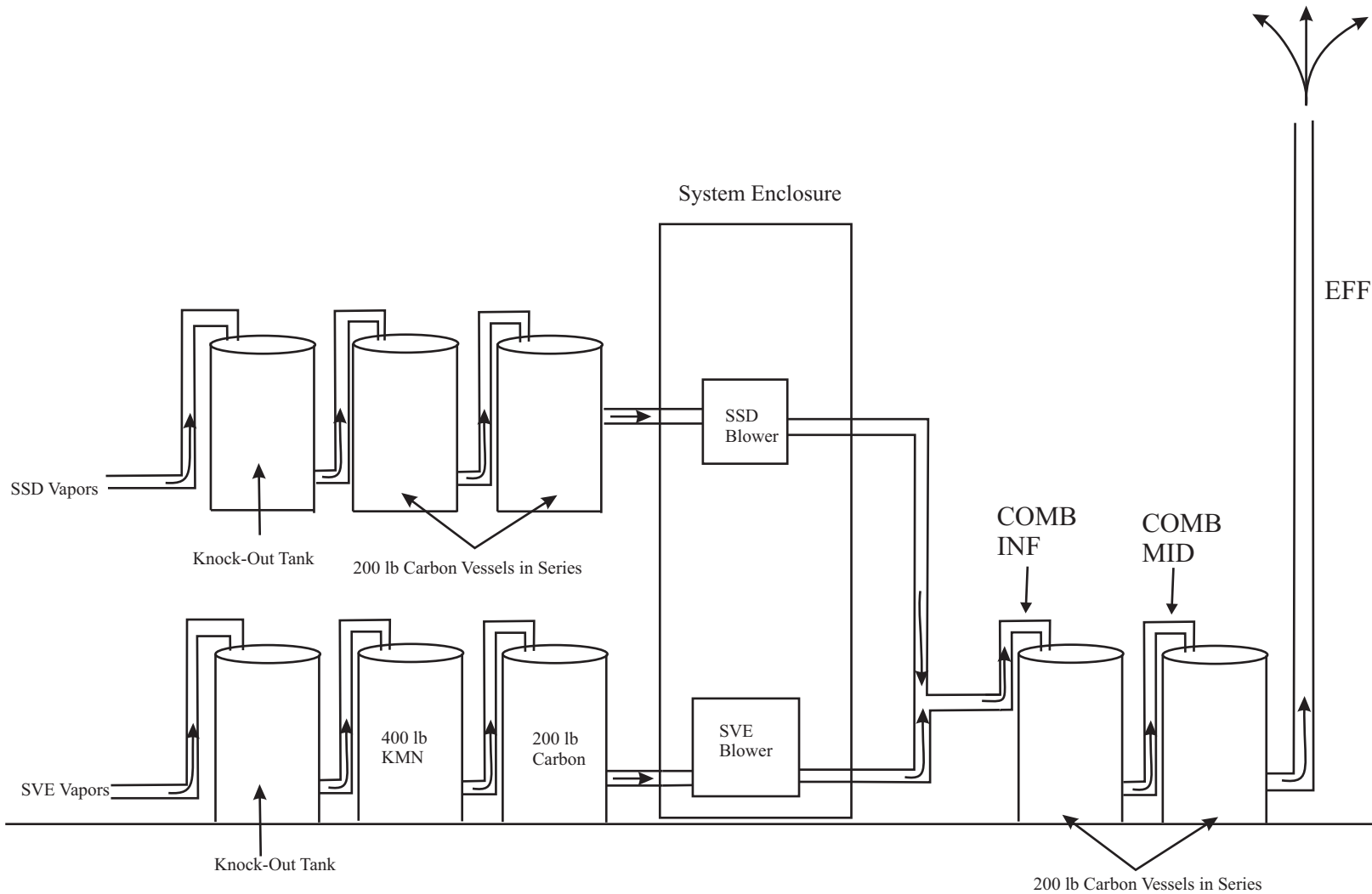
**AEI CONSULTANTS**

2500 CAMINO DIABLO, WALNUT CREEK, CA

**SYSTEM LAYOUT**

10700 MACARTHUR BLVD.  
OAKLAND, CALIFORNIA

**FIGURE 4**  
PROJECT NO. 261829



NOT TO SCALE

**AEI CONSULTANTS**  
 2500 CAMINO DIABLO, WALNUT CREEK, CA

**PROCESS FLOW DIAGRAM**

10700 MACARTHUR BLVD.  
 OAKLAND, CALIFORNIA

**FIGURE 5**  
 PROJECT No. 261829



## TABLES

**Table 1:**  
**Soil Vapor Sample Analytical Data - Vapor Probes**  
*10700 MacArthur Blvd., Oakland, California*

Sample ID	Date	Depth (feet bgs)	PCE $\mu\text{g}/\text{m}^3$	TCE $\mu\text{g}/\text{m}^3$	cis-1,2-DCE $\mu\text{g}/\text{m}^3$	trans-1,2 DCE $\mu\text{g}/\text{m}^3$	Vinyl Chloride $\mu\text{g}/\text{m}^3$
<b>Sub-Slab Vapor Probes</b>							
SS-1	1/6/2014	0.5	1,300,000	440,000	150,000	<50,000	<50,000
SS-2	1/6/2014	0.5	360	<250	<250	<250	<250
SS-3	1/6/2014	0.5	88,000	11,000	<2,500	<2,500	<2,500
SS-4	1/6/2014	0.5	48,000	18,000	9,200	2,300	<1,200
SS-5	1/6/2014	0.5	130,000	31,000	36,000	7,300	<2,500
SS-6	1/6/2014	0.5	59,000	7,800	<2,500	<2,500	<2,500
SS-7	1/6/2014	0.5	120,000	16,000	<2,500	<2,500	<2,500
SS-8	1/6/2014	0.5	2,000	1,000	2,500	<250	<250
SS-9	1/6/2014	0.5	6,600,000	2,500,000	1,100,000	180,000	240,000
SS-10	1/6/2014	0.5	<250	<250	<250	<250	<250
<b>5' Vapor Probes</b>							
VM-1	1/6/2014	5'	1,300,000	440,000	180,000	<50,000	<50,000
VM-2	1/6/2014	5'	<250	<250	<250	<250	<250
VM-3	1/6/2014	5'	61,000	10,000	<2,500	<2,500	<2,500
VM-4	1/6/2014	5'	210,000	86,000	39,000	9,100	<5,000
VM-5	1/6/2014	5'	1,600,000	5,800,000	8,800,000	2,400,000	18,000,000
VM-6	1/6/2014	5'	1,700,000	640,000	250,000	<50,000	<50,000
VM-7	1/6/2014	5'	120,000	22,000	<2,500	<2,500	<2,500
VM-8	1/6/2014	5'	12,000	1,700	1,700	<250	<250
VM-9	1/6/2014	5'	4,300,000	1,800,000	720,000	110,000	130,000
VM-10	1/6/2014	5'	470	280	<250	<250	<250

Notes:  
PCE = Tetrachloroethene  
TCE = Trichloroethene  
c-1,2-DCE = cis-1,2-Dichloroethene  
trans-1,2-DCE = trans-1,2-Dichloroethene  
 $\mu\text{g}/\text{m}^3$  = micrograms per cubic meter  
bgs = below ground surface

**Table 2:**  
**System Analytical Data Summary**  
 10700 MacArthur Blvd., Oakland, CA

Date	Sub-Slab Depressurization System (SSD) Data						SVE System Data (VE-1)					
	Sample ID	PCE (µg/L)	TCE (µg/L)	c-1,2-DCE (µg/L)	t-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	Sample ID	PCE (µg/L)	TCE (µg/L)	c-1,2-DCE (µg/L)	t-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
<b><u>INFLUENT DATA</u></b>												
1/13/2014	SSD INF	18	3.6	2.2	0.34	<0.25	SVE-1	670	470	1,500	420	1,900
1/15/2014	SSD INF	17	2.5	1.5	<0.25	<0.25	SVE-1 INF	530	290	760	210	810
3/5/2014	SSD INF	12	2.2	1.3	<0.25	<0.25	SVE-1 INF	690	380	480	130	430
3/20/2014	SSD INF	5.8	0.730	0.330	<0.25	<0.25	SV-1 INF	330	97	120	18	34
4/16/2014	SSD INF	2.5	0.510	0.270	<0.25	<0.25	SV-1 INF	130	45	75	11	10
5/2/2014	SSD INF	1.8	0.320	<0.25	<0.25	<0.25	SV-1 INF	75	25	38	5	<2.5
5/23/2014	SSD INF	2.0	0.270	<0.25	<0.25	<0.25	SV-1 INF	97	38	54	7.2	3.6
7/3/2014	SSD INF	6.5	0.600	<0.25	<0.25	<0.25	SVE INF	110	33	34	5.4	<2.5
8/11/2014	SSD INF	6.0	0.700	0.28	<0.25	<0.25	SVE INF	98	27	28	<5.0	<5.0
9/12/2014	SSD INF	6.1	0.510	<0.25	<0.25	<0.25	SVE INF	130	26	25	3.5	<2.5
10/14/2014	SSD INF	5.4	0.51	<0.25	<0.25	<0.25	SVE INF	91	20	21	3.3	<2.5
11/20/2014	SSD INF	22	1.6	0.71	<0.50	<0.50	SVE INF	81	18	18	2.5	<1.7
12/31/2014	SSD INF	1.0	<0.25	<0.25	<0.25	<0.25	SVE INF	3.1	1.2	1.3	<0.25	<0.25
1/14/2015	SSD INF	0.78	<0.25	<0.25	<0.25	<0.25	SVE INF	82	25	26	4.2	<1.7
2/12/2015	SSD INF	1.6	<0.25	0.30	<0.25	<0.25	SVE INF	77	27	26	4.1	<1.7
3/27/2015	SSD INF	0.79	0.30	0.25	<0.25	<0.25	SVE INF	--	--	--	--	--
4/21/2015	SSD INF	22	1.0	<1.0	<1.0	<1.0	SVE INF	39	<1.7	<1.7	<1.7	<1.7
5/7/2015	SSD INF	26	1.1	<0.25	<0.25	<0.25	SVE INF	81	8.0	0.80	<0.25	<0.25
<b><u>MID CARBON DATA</u></b>												
1/13/2014	SSD MID	<0.25	<0.25	<0.25	<0.25	<0.25	SVE MID	<0.25	<0.25	<0.25	<0.25	<0.25
3/20/2014	SSD MID	0.290	<0.25	0.650	<0.25	<0.25	SVE MID	<0.5	<0.5	<0.5	<0.5	22
5/23/2014	SSD MID	0.700	0.430	<0.25	<0.25	<0.25	SVE MID	2.6	0.340	<0.25	<0.25	<0.25
<b><u>MID CARBON #2</u></b>												
5/23/2014	--	--	--	--	--	--	SVE MID #2	0.37	<0.25	<0.25	<0.25	<0.25
<b><u>EFFLUENT DATA</u></b>												
1/13/2014	SSD EFF	<0.25	<0.25	<0.25	<0.25	<0.25	SVE EFF	<0.25	<0.25	<0.25	<0.25	<0.25
3/20/2014	SSD EFF	<0.25	<0.25	<0.25	<0.25	<0.25	SVE EFF	<0.25	<0.25	<0.25	<0.25	<0.25
<b><u>COMBINED INFLUENT DATA</u></b>												
7/3/2014	--	<0.25	<0.25	<0.25	<0.25	<0.25						
<b><u>COMBINED MID DATA</u></b>												
7/3/2014	--	<0.25	<0.25	<0.25	<0.25	<0.25						

**NOTES:**

µg/L = micrograms per liter  
 nm = not measured

PCE = Tetrachloroethene  
 TCE = Trichloroethene

c-1,2-DCE = cis-1,2-Dichloroethene  
 t-1,2-DCE = trans-1,2-Dichloroethene

<0.25 = Less than laboratory reporting limit

Data collected prior to system flow chart modifications; not applicable following changes made on 5/30/14

**Table 3:**  
**PCE Mass Removal Estimates - SSD System**  
 10700 MacArthur Blvd, Oakland, California

Sample ID	Date	Notes	Hour Meter	System Runtime (hours)	System Uptime (%)	VFD Setting (Hz)	Applied Vacuum (in-H2O)	Gas Stream Temp (°F)	Total Velocity (fpm)	Total Flow (cfm)	Total Flow (scfm)	PCE Influent (µg/L)	Mass Removal Rate (gm/day)	Mass Removal Rate (kg/day)	Mass Removal Rate (lbs/day)	Cumulative Mass Removed (grams)	Cumulative Mass Removed (kg)	Cumulative Mass Removed (pounds)
INF	01/13/14		0	0	0%	50	20	62	5,000	109	109	18.00	80	0.080	0.176	0	0	0
	01/15/14		48.0	48.0	99%	50	20	65	5,000	109	108	17.00	77	0.077	0.165	155	0.155	0.341
	03/05/14		143.2	95.2	7%	50	18	68	5,000	109	107	12.00	64	0.064	0.116	407	0.407	0.897
	03/20/14		443.3	300.1	82%	50	18	72	5,000	109	107	5.80	39	0.039	0.056	892	0.892	1.967
	04/16/14		1,097.1	653.8	100%	50	18	69	5,000	109	107	2.5	18	0.018	0.024	1,385	1.385	3.053
	05/02/14		1,480.6	383.5	99%	50	16	70	5,000	109	107	1.8	9	0.009	0.017	1,535	1.535	3.384
	05/23/14		1,988.3	507.7	100%	50	16	68	5,000	109	107	2.0	8	0.008	0.019	1,710	1.710	3.771
	07/03/14		2,970.6	982.3	99%	50	10	72	4,000	87	85	6.5	17	0.017	0.050	2,393	2.393	5.276
	08/11/14		3,909.8	939.2	99%	50	10	72	4,000	87	85	6.0	22	0.022	0.046	3,243	3.243	7.150
	09/12/14		4,682.6	772.8	100%	50	10	70	4,000	87	86	6.1	21	0.021	0.047	3,922	3.922	8.646
	10/14/14		5,457.2	774.6	100%	50	10	70	4,000	87	86	5.4	20	0.020	0.042	4,569	4.569	10.073
	11/20/14		6,344.9	887.7	99%	50	10	68	4,000	87	86	22.0	48	0.048	0.170	6,340	6.340	13.978
	12/31/14		7,333.0	988.1	99%	50	10	62	4,000	87	87	1.0	41	0.041	0.008	8,008	8.008	17.654
	01/14/15		7,672.6	339.6	100%	50	10	62	4,000	87	87	0.8	3	0.003	0.006	8,052	8.052	17.752
	02/12/15		8,317.5	644.9	92%	50	10	64	4,000	87	87	1.6	4	0.004	0.012	8,166	8.166	18.002
	03/27/15		9,384.9	1067.4	102%	50	12	68	4,200	92	90	0.8	4	0.004	0.006	8,357	8.357	18.424
04/21/15		9,995.6	610.7	101%	50	12	62	4,200	92	91	22.0	42	0.042	0.180	9,429	9.429	20.788	
05/07/15		10,412.5	416.9	108%	50	12	68	4,200	92	90	26.0	89	0.089	0.211	10,971	10.971	24.187	

**NOTES:**

in-H2O = inches of water column (gauge pressure)

°F = degrees Fahrenheit

fpm = actual feet per minute

cfm = actual cubic feet per minute

scfm = standard cubic feet per minute

µg/L = micrograms per Liter of air

gm/day = grams per day

kg/day = kilograms per day

lbs/day = pounds per day

PCE = Tetrachloroethene

Cross Sectional Area of 2" Pipe = 0.0218

Total Flow = Total Velocity \* Cross Sectional Area of 2" Pipe

SCFM = ACFM\*(520°F / (460°F + Outlet Temp))

Mass Removal Rate (grams/day) = (57 µg/L)\*(103 scfm)\*(10<sup>-6</sup> g/µg)\*(1440 min/day)\*(28.317 L/ft<sup>3</sup>) = 239 gm/day

Mass Removal Rate (lbs/day) = (57 µg/L)\*(103 scfm)\*(1 lb/453.6g)\*(10<sup>-6</sup> g/µg)\*(1440 min/day)\*(28.317 L/ft<sup>3</sup>) = 0.5271 lbs/day

Mass Removal Rate estimates assume negligible change in air density, constant concentration and average molecular weight

1 mole occupies 22.4 Liters at STP

1 day = 1440 minutes

1 kg = 1,000 grams

STP is 21°C and 1 atm

1ft<sup>3</sup> = 28.317 Liters

1 U.S. gallon = 128 fluid ounces

MW<sub>PCE</sub> = 165.85 grams/mole

1 lb = 453.6 grams

1 U.S. gallon PCE ~ 13.8 pounds

**\*Note: lab data shown in black; correlated PID data shown in green (as applicable)**

For the "Cumulative Mass Removed" estimates, the average concentration, the average flow rate, and system runtime between sampling dates was used

System runtime is defined as the actual hours of operation between sampling dates

**Table 4:**  
**PCE Mass Removal Estimates - SVE System**  
 10700 MacArthur Blvd, Oakland, California

Sample ID	Date	Notes	Hour Meter	System Runtime (hours)	System Uptime (%)	VFD Setting (Hz)	Applied Vacuum (in-H2O)	Gas Stream Temp (°F)	Total Velocity (fpm)	Total Flow (cfm)	Total Flow (scfm)	PCE Influent (µg/L)	Mass Removal Rate (gm/day)	Mass Removal Rate (kg/day)	Mass Removal Rate (lbs/day)	Cumulative Mass Removed (grams)	Cumulative Mass Removed (kg)	Cumulative Mass Removed (pounds)
INF	01/13/14		0	0	0%	60	37	60	100	2	2	670	60	0.060	0.131	0	0	0
	01/15/14		50.0	50.0	103%	60	37	65	100	2	2	530	53	0.053	0.103	111	0.111	0.244
	03/05/14		143.2	93.2	7%	50	105	66	900	20	19	690	268	0.268	1.203	1,152	1.152	2.539
	03/20/14		444.5	301.3	83%	50	105	72	900	20	19	330	401	0.401	0.569	6,187	6.187	13.640
	04/16/14		931.6	487.1	74%	50	135	68	600	13	13	130	150	0.150	0.151	9,238	9.238	20.366
	05/02/14		1315.5	383.9	99%	50	140	70	550	12	12	75	52	0.052	0.079	10,062	10.062	22.183
	05/23/14		1823.6	508.1	100%	50	150	68	550	12	12	97	41	0.041	0.103	10,937	10.937	24.112
	07/03/14		2806.7	983.1	99%	50	145	72	500	11	11	110	47	0.047	0.105	12,879	12.879	28.392
	08/11/14		3746.6	939.9	99%	50	145	72	500	11	11	98	45	0.045	0.094	14,648	14.648	32.293
	09/12/14		4520.1	773.5	100%	50	145	72	500	11	11	130	50	0.050	0.125	16,244	16.244	35.812
	10/14/14		5293.1	773.0	100%	50	145	70	500	11	11	91	48	0.048	0.087	17,793	17.793	39.227
	11/20/14		6183.8	890.7	99%	50	145	68	500	11	11	81	38	0.038	0.078	19,188	19.188	42.301
	12/31/14		7172.6	988.8	99%	50	145	54	500	11	11	3	19	0.019	0.003	19,956	19.956	43.996
	01/14/15		7512.5	339.9	100%	50	145	58	500	11	11	82	19	0.019	0.081	20,226	20.226	44.591
	02/12/15		8187.9	675.4	96%	50	145	60	500	11	11	77	35	0.035	0.075	21,223	21.223	46.787
	04/21/15		9297.4	1109.5	67%	50	145	60	500	11	11	39	26	0.026	0.038	22,414	22.414	49.415
05/07/15		9667.1	369.7	95%	50	145	68	500	11	11	81	26	0.026	0.078	22,822	22.822	50.313	

**NOTES:**

in-H2O = inches of water column (gauge pressure)

°F = degrees Fahrenheit

fpm = actual feet per minute

cfm = actual cubic feet per minute

scfm = standard cubic feet per minute

µg/L = micrograms per Liter of air

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Cross Sectional Area of 2" Pipe = 0.0218

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Mass Removal Rate (lbs/day) = (57 µg/L)\*(103 scfm)\*(1 lb/453.6g)\*(10<sup>-6</sup> g/µg)\*(1440 min/day)\*(28.317 L/ft<sup>3</sup>) = 0.5271 lbs/day

Mass Removal Rate estimates assume negligible change in air density, constant concentration and average molecular weight

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**\*Note: lab data shown in black; correlated PID data shown in green (as applicable)**

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## APPENDIX A

### PERMITS

# Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street  
Hayward, CA 94544-1395  
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 03/29/2011 By jamesy

Permit Numbers: W2011-0200 to W2011-0201  
Permits Valid from 07/31/2012 to 07/31/2012

Application Id: 1301355422096  
Site Location: 10700 MacArthur Blvd  
Project Start Date: 04/11/2011  
Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org  
Extension Start Date: 07/31/2012  
Extension Count: 1

City of Project Site:Oakland

Completion Date:04/22/2011

Extension End Date: 07/31/2012  
Extended By: vickyh1

Applicant: AEI Consultants - Jeremy Smith  
2500 Camino Diablo, Walnut Creek, CA 94519  
Property Owner: c/o John Jay Phares Co.  
10700 MacArthur Blvd., Oakland, CA 94605  
Client: \*\* same as Property Owner \*\*  
Contact: Jeremy Smith

Phone: 925-746-6000 x128

Phone: --

Phone: --  
Cell: --

Receipt Number: WR2011-0096 Total Due: \$530.00  
Payer Name : Jeremy Smith Total Amount Paid: \$530.00  
Paid By: VISA PAID IN FULL

## Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 10 Boreholes  
Driller: Environmental Control Associates - Lic #: 695970 - Method: DP

Work Total: \$265.00

### Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2011-0200	03/29/2011	07/10/2011	10	1.00 in.	5.00 ft

### Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

# Alameda County Public Works Agency - Water Resources Well Permit

6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

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Remediation Well Construction-Extraction - 1 Wells

Driller: Environmental Control Associates - Lic #: 695970 - Method: Hand

**Work Total: \$265.00**

## Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2011-0201	03/29/2011	07/10/2011	VE-1	6.00 in.	4.00 in.	1.00 ft	12.00 ft

## Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.
4. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
6. Minimum seal depth (Neat Cement Seal) is 2 feet below ground surface (BGS).
7. Minimum surface seal thickness is two inches of cement grout placed by tremie.
8. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
9. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and



## **Alameda County Public Works Agency - Water Resources Well Permit**

coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

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BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

March 17, 2014

AEI Consultants  
2500 Camino Diablo  
Walnut Creek, CA 94597  
Attention: Jeremy Smith

Application Number: 23174  
Plant Number: 20686  
Equipment Location:  
10700 MacArthur Blvd  
Oakland, CA 94605

ALAMEDA COUNTY  
Tom Bates  
Scott Haggerty  
Nate Miley  
(Chair)  
Tim Sbranti

CONTRA COSTA COUNTY  
John Gioia  
David Hudson  
Mary Piepho  
Mark Ross

MARIN COUNTY  
Susan Adams

NAPA COUNTY  
Brad Wagenknecht

SAN FRANCISCO COUNTY  
John Avalos  
Edwin M. Lee  
Eric Mar  
(Secretary)

SAN MATEO COUNTY  
Carole Groom  
(Vice-Chair)  
Carol Klatt

SANTA CLARA COUNTY  
Cindy Chavez  
Ash Kalra  
Liz Kniss  
Jan Pepper

SOLANO COUNTY  
James Spering

SONOMA COUNTY  
Teresa Barrett  
Shirlee Zane

Jack P. Broadbent  
EXECUTIVE OFFICER/APCO

Dear Applicant:

Enclosed is your Permit to Operate the following:

- S-1 Soil Vapor Extraction System, Regenerative Blower-200 cfm**  
*abated by*
- A-1 Unclassified Abatement Device**  
**Carbon Adsorption Vessels (200 lb), Siemens 200 lb Carbon Vessels-2 in series**

The equipment described above is subject to condition no. 25023.

In accordance with Regulation 2-1-411.2, you must sign your Permit to Operate. All Permits should be posted in a clearly visible and accessible place on or near the equipment to be operated, or kept available for inspection at any time. Operation of this equipment in violation of District Regulations or any permit conditions is subject to penalty action.

In the absence of specific permit conditions to the contrary, the throughputs, fuel and material consumption, capacities, and hours of operation described in your permit application will be considered maximum allowable limits. A new permit will be required before any increase in these parameters, or change in raw material handled may be made.

Please include your permit number with any correspondence with the District. If you have any questions on this matter please call Irma C Salinas, Senior Air Quality Engineer at (415) 749-5110.

Very truly yours,

Jim Karas, P.E.  
Director of Engineering

by *Sanjeev Kambh*  
Air Quality Engineering Manager

ICS  
Enclosure



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

# PERMIT TO OPERATE

PLANT No. 20686

SOURCE No. 1

## AEI Consultants

10700 MacArthur Blvd, Oakland, CA 94605

IS HEREBY GRANTED A PERMIT TO OPERATE THE FOLLOWING EQUIPMENT

Soil Vapor Extraction System, Regenerative Blower-200 cfm

*abated by*

A-1 Unclassified Abatement Device  
Carbon Adsorption Vessels (200 lb), Siemens 200 lb Carbon Vessels-2 in series

Subject to attached condition no. 25023.<sup>1</sup>

JIM KARAS, P.E.  
DIRECTOR OF ENGINEERING

*Permit Issue Date* March 17, 2014  
*Reported Start Up Date* January 13, 2014  
*Permit Expiration Date* January 13, 2015

By Sanjeev Kandy

**Right of Entry**

The Air Pollution Control Officer of the Bay Area Air Quality Management District, the Chairman of the California Air Resources Board, the Regional Administrator of the Environmental Protection Agency, and/or their designees, upon presentation of credentials, shall be granted the right of entry to any premises on which an air pollution source is located for the purposes of : i) the inspection of the source ii) the sampling of materials used at the source iii) the conduction of an emissions source test iv) the inspection of any records required by District rule or permit condition.

**Permit Expiration**

In accordance with Regulation 3-408, a Permit to Operate is valid for 12 months from the date of issuance or other time period as approved by the APCO. Use of this Permit to Operate is authorized by the District until the later of: the Permit Expiration Date or the Permit Renewal Date. Permit to operate fees will be prorated as described in Regulation 3-402 when the permit is renewed.

This permit does not authorize violation of the rules and regulations of the BAAQMD or the Health and Safety Code of the State of California. District regulations may be viewed on line at [www.baaqmd.gov](http://www.baaqmd.gov). This permit is not transferable to another person without approval from the District. It is the responsibility of the permit holder to have knowledge of and be in compliance with all District Rules and Regulations.  
*1. Compliance with conditions contained in this permit does not mean that the permit holder is currently in compliance with District Rules and Regulations.*

**Permit Holder Must Sign Here** \_\_\_\_\_



**Plant Name: AEI Consultants**

**Source No. 1 Soil Vapor Extraction System, Regenerative Blower-200 cfm**

**Condition No. 25023**

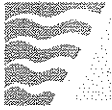
**Plant No. 20686**

**Application No. 23174**

1. The owner/operator shall vent Source S-1 at all times to Abatement device A-1, two (200 lb minimum capacity) activated carbon vessels arranged in series. Influent vapor flow shall not exceed 165 scfm. In no event shall vinyl chloride emissions to the atmosphere exceed 0.0038 pounds per day or 1.4 pounds per year, in no event shall tetrachloroethylene (PERC) emissions to the atmosphere exceed 0.049 pounds per day or 18 pounds per year, in no event shall trichloroethylene (TCE) emissions to the atmosphere exceed 0.148 pounds per day or 54 pounds per year. (basis: Regulation 8-40-302, Cumulative Increase, BACT/TBACT)
2. The owner/operator of this source shall monitor with a photo-ionization detector (PID), flame-ionization detector (FID), or other method approved in writing by the Air Pollution Control Officer at the following locations:
  - a. At the inlet to the second to last carbon vessel in series.
  - b. At the inlet to the last carbon vessel in series.
  - c. At the outlet of the carbon vessel that is last in series prior to venting to the atmosphere.

When using an FID to monitor breakthrough, readings may be taken with and without a carbon filter tip fitted on the FID probe. Concentrations measured with the carbon filter tip in place shall be considered methane for the purposes of these permit conditions. (basis: Cumulative Increase, Regulation 2-5, BACT/TBACT)

3. The owner/operator shall record these monitor readings in a monitoring log at the time they are taken. The monitoring results shall be used to estimate the frequency of carbon change-out necessary to maintain compliance with conditions number 4 and 5, and shall be conducted on a weekly basis. The owner/operator of this source may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District's Permit Services Division must be received by the owner/operator prior to a change to the monitoring schedule. (basis: Cumulative Increase, BACT/TBACT)
4. The owner/operator shall change out the second to last carbon vessel with unspent carbon upon breakthrough, defined as the detection at its outlet of the higher of the following:



Plant Name: AEI Consultants

Source No. 1 Soil Vapor Extraction System, Regenerative Blower-200 cfm

Condition No. 25023

Plant No. 20686

Application No. 23174

- a. 10 % of the inlet stream concentration to the Carbon vessel.
  - b. 10 ppmv or greater (measured as C1).  
(basis: Cumulative Increase, BACT/TBACT)
5. The owner/operator shall change out the last carbon vessel with unspent carbon upon detection at its outlet of 10 ppmv or greater (measured as C1). (basis: Cumulative Increase, BACT/TBACT)
  6. The owner/operator of this source shall maintain the following records for each month of operation of the source:
    - a. The hours and times of operation.
    - b. Each monitor reading or analysis result for the day of operation they are taken.
    - c. The number of carbon beds removed from service.

All measurements, records and data required to be maintained by the owner/operator shall be retained and made available for inspection by the District for at least two years [Note: This is five years for Title V facilities] following the date the data is recorded.  
(basis: Cumulative Increase, BACT/TBACT)

7. The owner/operator shall report any non-compliance with parts 4 and/or 5 to the Director of the Compliance & Enforcement Division at the time that it is discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well at the time of occurrence. (basis: Cumulative Increase, BACT/TBACT)

*End of Conditions*

July 14, 2014

AEI Consultants  
2500 Camino Diablo  
Walnut Creek, CA 94597

Attention: Jeremy Smith

Application Number: 23174  
Plant Number: 20686  
Equipment Location: 10700 MacArthur Blvd  
Oakland, CA 94605

ALAMEDA COUNTY  
Tom Bates  
Margaret Fujioka  
Scott Haggerty  
Nate Miley  
(Chair)

CONTRA COSTA COUNTY  
John Gioia  
David Hudson  
Mary Piepho  
Mark Ross

MARIN COUNTY  
Susan Adams

NAPA COUNTY  
Brad Wagenknecht

SAN FRANCISCO COUNTY  
John Avalos  
Edwin M. Lee  
Eric Mar  
(Secretary)

SAN MATEO COUNTY  
Carole Groom  
(Vice-Chair)  
Carol Klatt

SANTA CLARA COUNTY  
Cindy Chavez  
Ash Kalra  
Liz Kniss  
Jan Pepper

SOLANO COUNTY  
James Spering

SONOMA COUNTY  
Teresa Barrett  
Shirlee Zane

Jack P. Broadbent  
EXECUTIVE OFFICER/APCO

SUBJECT: CHANGE OF PERMIT CONDITIONS

This letter is to advise you that your application for changes in permit conditions for the following equipment has been approved:

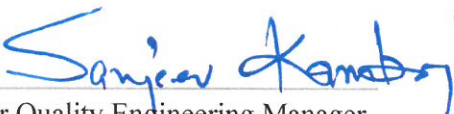
**S-1 Soil Vapor Extraction System, Regenerative Blowers - 165 cfm combined;  
Abated by A-1 Carbon Adsorption System.**

Operation of this equipment will be subject to permit condition no. 25023 which is attached. If you have any questions regarding this matter, please call **Irma Salinas, Senior Air Quality Engineer at (415) 749-5110.**

Very truly yours

Jim Karas, P.E.  
Director of Engineering

by

  
Air Quality Engineering Manager



Plant No. 20686, AEI Consultants

Source No. 1, Soil Vapor Extraction System abated by A-1 Carbon Adsorption System

Condition No. 25023

Application No. 23174

For S-1 SVE System abated by A-1 Carbon Adsorption System

1. The owner/operator shall vent Source S-1 at all times to Abatement device A-1, two (200 lb minimum capacity) activated carbon vessels arranged in series. Influent vapor flow shall not exceed 165 scfm. In no event shall vinyl chloride emissions to the atmosphere exceed 0.0038 pounds per day or 1.4 pounds per year, in no event shall tetrachloroethylene (PERC) emissions to the atmosphere exceed 0.049 pounds per day or 18 pounds per year, in no event shall trichloroethylene (TCE) emissions to the atmosphere exceed 0.148 pounds per day or 54 pounds per year. (basis: Regulation 8-40-302, Cumulative Increase, BACT/TBACT)
2. The owner/operator of this source shall monitor with a photo-ionization detector (PID), flame-ionization detector (FID), or other method approved in writing by the Air Pollution Control Officer at the following locations:
  - a. At the inlet to the second to last carbon vessel in series.
  - b. At the inlet to the last carbon vessel in series.
  - c. At the outlet of the carbon vessel that is last in series prior to venting to the atmosphere.

When using an FID to monitor breakthrough, readings may be taken with and without a carbon filter tip fitted on the FID probe. Concentrations measured with the carbon filter tip in place shall be considered methane for the purposes of these permit conditions. (basis: Cumulative Increase, Regulation 2-5, BACT/TBACT)

3. The owner/operator shall record these monitor readings in a monitoring log at the time they are taken. The monitoring results shall be used to estimate the frequency of carbon change-out necessary to maintain compliance with conditions number 4 and 5, and shall be conducted on a monthly basis. The owner/operator of this source may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District's Permit Services Division must be received by the owner/operator prior to a change to the monitoring schedule. (basis: Cumulative Increase, BACT/TBACT)
4. The owner/operator shall change out the second to last carbon vessel with unspent carbon upon breakthrough, defined as the detection at its outlet of the higher of the following:
  - a. 10 % of the inlet stream concentration to the Carbon vessel.



Plant No. 20686, AEI Consultants

Source No. 1, Soil Vapor Extraction System abated by A-1 Carbon Adsorption System

Condition No. 25023

Application No. 23174

- b. 10 ppmv or greater (measured as C1).  
(basis: Cumulative Increase, BACT/TBACT)
5. The owner/operator shall change out the last carbon vessel with unspent carbon upon detection at its outlet of 10 ppmv or greater (measured as C1). (basis: Cumulative Increase, BACT/TBACT)
6. The owner/operator of this source shall maintain the following records for each month of operation of the source:
  - a. The hours and times of operation.
  - b. Each monitor reading or analysis result for the day of operation they are taken.
  - c. The number of carbon beds removed from service.

All measurements, records and data required to be maintained by the owner/operator shall be retained and made available for inspection by the District for at least two years [Note: This is five years for Title V facilities] following the date the data is recorded.  
(basis: Cumulative Increase, BACT/TBACT)

7. The owner/operator shall report any non-compliance with parts 4 and/or 5 to the Director of the Compliance & Enforcement Division at the time that it is discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well at the time of occurrence. (basis: Cumulative Increase, BACT/TBACT)

*End of Conditions*



**Condition Change Report**  
**AEI Consultants for an SVE**  
**Plant # 20686**  
**Application Number 23174**

***Background***

AEI Consultants has been operating a soil vapor extraction system located at 10700 MacArthur Boulevard in Oakland, CA since January 2014. This SVE is removing perchloroethylene from soil that was contaminated by a former dry cleaning operation. The SVE system includes two separate blowers. A high flow/low vacuum blower (about 110 cfm) is controlling vapors from a sub slab area (the SSD system) while a low flow/high vacuum blower (about 20 cfm) is controlling vapors pulled from the deeper wells (the SVE system). Each of these systems is equipped with two carbon canisters (200 pounds each) operating in series. The abated vapors from these two systems are combined and then subsequently controlled by an additional two carbon vessels (200 pounds each) in series.

The District issued a Permit to Operate for this operating configuration on March 17, 2014. In accordance with Condition # 25023, Part 3, the consultant is required to monitor the final set of carbon vessels on a weekly basis. AEI has been conducting this required monitoring and is now requesting that the monitoring frequency be reduced to a monthly basis.

***Test Results***

All portable monitoring results have been non-detect. In addition, AEI has occasionally pulled samples for analytical analyses. The analytical data indicate that the final carbon exhaust has been non-detect ( $\leq 0.25$  micro-g/L) for all pollutants. Based on flow rate data and influent analyses for the two blower systems (as of 7/3/14), the cumulative mass loading to the first carbon canister in the SVE system is 28.392 pounds and to the first carbon canister of the SSD system is 5.276 pounds. Each carbon canister is expected to hold 70 pounds. The current loading rates are 0.105 pounds/day for SVE and 0.050 pounds/day for SSD. Based on these loading rates, breakthrough of the first carbon canister is expected to occur in 396 days for the SVE system and 1294 days for the SSD system. For such long expected breakthrough times and the redundant control system, monthly monitoring is adequate.

***Permit Conditions***

The District is proposing to reduce the monitoring frequency to a monthly basis as indicated in Part 3 below.

**Condition # 25023**

1. The owner/operator shall vent Source S-1 at all times to Abatement device A-1, two (200 lb minimum capacity) activated carbon vessels arranged in series. Influent vapor flow shall not exceed 165 scfm. In no event shall vinyl chloride emissions to the atmosphere exceed 0.0038 pounds per day or 1.4 pounds per year, in no event shall tetrachloroethylene (PERC) emissions to the atmosphere exceed 0.049 pounds per day or 18 pounds per year, in no event shall trichloroethylene (TCE) emissions to the atmosphere exceed 0.148 pounds per day or 54 pounds per year. (basis: Regulation 8-40-302, Cumulative Increase, BACT/TBACT)

2. The owner/operator of this source shall monitor with a photo-ionization detector (PID), flame-ionization detector (FID), or other method approved in writing by the Air Pollution Control Officer at the following locations:
  - a. At the inlet to the second to last carbon vessel in series.
  - b. At the inlet to the last carbon vessel in series.
  - c. At the outlet of the carbon vessel that is last in series prior to venting to the atmosphere.

When using an FID to monitor breakthrough, readings may be taken with and without a carbon filter tip fitted on the FID probe. Concentrations measured with the carbon filter tip in place shall be considered methane for the purposes of these permit conditions. (basis: Cumulative Increase, Regulation 2-5, BACT/TBACT)

3. The owner/operator shall record these monitor readings in a monitoring log at the time they are taken. The monitoring results shall be used to estimate the frequency of carbon change-out necessary to maintain compliance with conditions number 4 and 5, and shall be conducted on a ~~weekly~~ monthly basis. The owner/operator of this source may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District's Permit Services Division must be received by the owner/operator prior to a change to the monitoring schedule. (basis: Cumulative Increase, BACT/TBACT)
4. The owner/operator shall change out the second to last carbon vessel with unspent carbon upon breakthrough, defined as the detection at its outlet of the higher of the following:
  - a. 10 % of the inlet stream concentration to the Carbon vessel.
  - b. 10 ppmv or greater (measured as C1).(basis: Cumulative Increase, BACT/TBACT)
5. The owner/operator shall change out the last carbon vessel with unspent carbon upon detection at its outlet of 10 ppmv or greater (measured as C1). (basis: Cumulative Increase, BACT/TBACT)
6. The owner/operator of this source shall maintain the following records for each month of operation of the source:

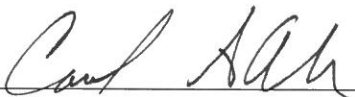
- a. The hours and times of operation.
- b. Each monitor reading or analysis result for the day of operation they are taken.
- c. The number of carbon beds removed from service.

All measurements, records and data required to be maintained by the owner/operator shall be retained and made available for inspection by the District for at least two years [Note: This is five years for Title V facilities] following the date the data is recorded. (basis: Cumulative Increase, BACT/TBACT)

- 7. The owner/operator shall report any non-compliance with parts 4 and/or 5 to the Director of the Compliance & Enforcement Division at the time that it is discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well at the time of occurrence. (basis: Cumulative Increase, BACT/TBACT)

***Recommendation***

Issue a Change of Conditions for S-1, subject to Condition # 25023.

by   
\_\_\_\_\_  
Carol Allen  
Supervising Air Quality Engineer

July 14, 2014

04/21/15

E0686



# BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 ELLIS STREET  
SAN FRANCISCO, CALIFORNIA 94109  
(415) 771-6000

# PERMIT TO OPERATE

Plant# 20686

Page: 1

Expires: JAN 1, 2016

This document does not permit the holder to violate any District regulation or other law.

Jeremy Smith, Department Manager  
AEI Consultants  
2500 Camino Diablo  
Walnut Creek, CA 94597

ORIGINAL SENT TO:

AEI Consultants  
10700 MacArthur Blvd  
Oakland, CA 94605

Location: 10700 MacArthur Blvd  
Oakland, CA 94605

S#	DESCRIPTION	[Schedule]	PAID
1	CHEM> Contaminated soil remediation, Contaminated soil vapor Soil Vapor Extraction System Abated by: A1 Unclassified Abatement Device Emissions at: P1 Stack	[G1,353 days]	1485

1 Permitted Source

\*\*\* See attached Permit Conditions \*\*\*

The operating parameters described above are based on information supplied by permit holder and may differ from the limits set forth in the attached conditions of the Permit to Operate. The limits of operation in the permit conditions are not to be exceeded. Exceeding these limits is considered a violation of District regulations subject to enforcement action.



## BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 ELLIS STREET  
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(415) 771-6000

# PERMIT TO OPERATE

Plant# 20686

Page: 2

Expires: JAN 1, 2016

This document does not permit the holder to violate any District regulation or other law.

### \*\*\* PERMIT CONDITIONS \*\*\*

COND# 25023 applies to S# 1

1. The owner/operator shall vent Source S-1 at all times to Abatement device A-1, two (200 lb minimum capacity) activated carbon vessels arranged in series. Influent vapor flow shall not exceed 165 scfm. In no event shall vinyl chloride emissions to the atmosphere exceed 0.0038 pounds per day or 1.4 pounds per year, in no event shall tetrachloroethylene (PERC) emissions to the atmosphere exceed 0.049 pounds per day or 18 pounds per year, in no event shall trichloroethylene (TCE) emissions to the atmosphere exceed 0.148 pounds per day or 54 pounds per year. (basis: Regulation 8-40-302, Cumulative Increase, BACT/TBACT)
2. The owner/operator of this source shall monitor with a photo-ionization detector (PID), flame-ionization detector (FID), or other method approved in writing by the Air Pollution Control Officer at the following locations:
  - a. At the inlet to the second to last carbon vessel in series.
  - b. At the inlet to the last carbon vessel in series.
  - c. At the outlet of the carbon vessel that is last in series prior to venting to the atmosphere.

When using an FID to monitor breakthrough, readings may be taken with and without a carbon filter tip fitted on the FID probe. Concentrations measured with the carbon filter tip in place shall be considered methane for the purposes of these permit conditions. (basis: Cumulative Increase, Regulation 2-5, BACT/TBACT)

3. The owner/operator shall record these monitor readings in a monitoring log at the time they are taken. The monitoring results shall be used to estimate the frequency of carbon change-out necessary to maintain compliance with conditions number 4 and 5, and shall be conducted on a monthly basis. The owner/operator of this source may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District's Permit Services



**BAY AREA AIR QUALITY  
MANAGEMENT DISTRICT**

939 ELLIS STREET  
SAN FRANCISCO, CALIFORNIA 94109  
(415) 771-6000

**PERMIT  
TO OPERATE**

Plant# 20686

Page: 3

Expires: JAN 1, 2016

This document does not permit the holder to violate any District regulation or other law.

\*\*\* PERMIT CONDITIONS \*\*\*

=====

Division must be received by the owner/operator prior to a change to the monitoring schedule. (basis: Cumulative Increase, BACT/TBACT)

- 4. The owner/operator shall change out the second to last carbon vessel with unspent carbon upon breakthrough, defined as the detection at its outlet of the higher of the following:
  - a. 10 % of the inlet stream concentration to the Carbon vessel.
  - b. 10 ppmv or greater (measured as C1). (basis: Cumulative Increase, BACT/TBACT)
- 5. The owner/operator shall change out the last carbon vessel with unspent carbon upon detection at its outlet of 10 ppmv or greater (measured as C1). (basis: Cumulative Increase, BACT/TBACT)
- 6. The owner/operator of this source shall maintain the following records for each month of operation of the source:
  - a. The hours and times of operation.
  - b. Each monitor reading or analysis result for the day of operation they are taken.
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All measurements, records and data required to be maintained by the owner/operator shall be retained and made available for inspection by the District for at least two years [Note: This is five years for Title V facilities] following the date the data is recorded. (basis: Cumulative Increase, BACT/TBACT)

- 7. The owner/operator shall report any non-compliance with parts 4 and/or 5 to the Director of the Compliance & Enforcement Division at the time that it is discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well at the time of occurrence. (basis: Cumulative Increase, BACT/TBACT)

~~~~~ END OF CONDITIONS ~~~~~

---

| S#          | Source Description           | Annual Average lbs/day |     |     |     |    |
|-------------|------------------------------|------------------------|-----|-----|-----|----|
|             |                              | PART                   | ORG | NOx | SO2 | CO |
| 1           | Soil Vapor Extraction System | -                      | -   | -   | -   | -  |
| T O T A L S |                              |                        |     |     |     |    |

---

**APPENDIX B**  
**BORING LOGS**





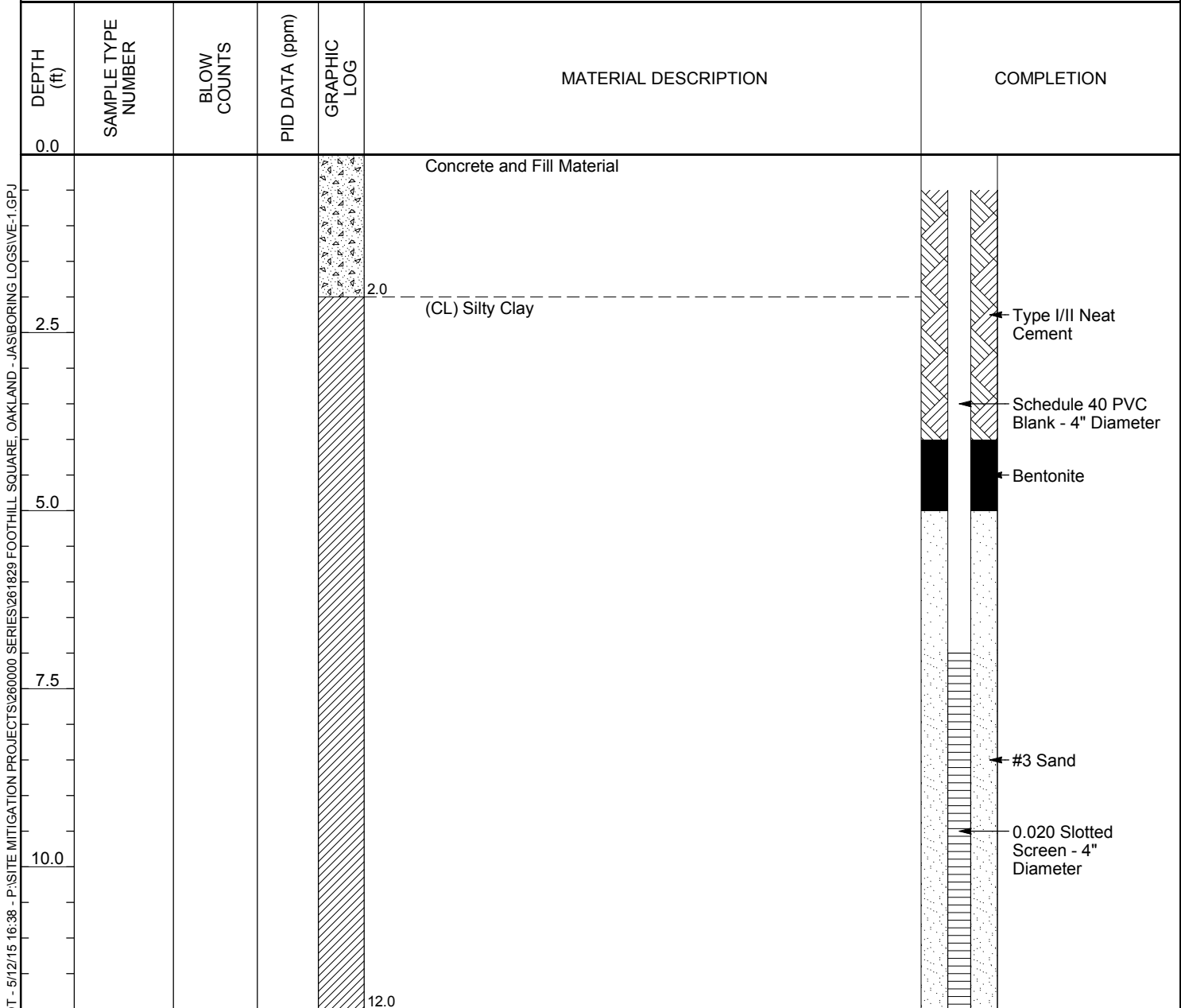
AEI Consultants

# BORING NUMBER VE-1

PAGE 1 OF 1

**CLIENT** Jay-Phares Corporation  
**PROJECT NUMBER** 261829  
**DATE STARTED** 7/31/12 **COMPLETED** 8/1/12  
**DRILLING CONTRACTOR** ECA  
**DRILLING METHOD** Hollow Stem Auger  
**LOGGED BY** Jeremy Smith **CHECKED BY** Peter McIntyre  
**NOTES** \_\_\_\_\_

**PROJECT NAME** Foothill Square  
**PROJECT LOCATION** 10700 MacArthur Blvd., Oakland, CA  
**GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** 8 inches  
**GROUND WATER LEVELS:**  
**AT TIME OF DRILLING** ---  
**AT END OF DRILLING** ---  
**AFTER DRILLING** ---



AEI BORING - GINT STD US LAB.GDT - 5/12/15 16:36 - P:\SITE MITIGATION PROJECTS\260000 SERIES\261829 FOOTHILL SQUARE, OAKLAND - JAS\BORING LOGS\VE-1.GPJ

**APPENDIX C**  
**DISPOSAL DOCUMENTATION**

|                                         |                                            |              |                                                    |                                                     |
|-----------------------------------------|--------------------------------------------|--------------|----------------------------------------------------|-----------------------------------------------------|
| <b>UNIFORM HAZARDOUS WASTE MANIFEST</b> | 1. Generator ID Number<br><i>123456789</i> | 2. Page 1 of | 3. Emergency Response Phone<br><i>907.548.1800</i> | 4. Manifest Tracking Number<br><b>008454124 JJK</b> |
|-----------------------------------------|--------------------------------------------|--------------|----------------------------------------------------|-----------------------------------------------------|

|                                                                                                        |                                                                                                                |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 5. Generator's Name and Mailing Address<br><i>John Jay<br/>1700 Marston Blvd<br/>Oakland, CA 94612</i> | Generator's Site Address (if different than mailing address)<br><i>1700 Marston Blvd<br/>Oakland, CA 94612</i> |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|

|                                                                    |                                           |
|--------------------------------------------------------------------|-------------------------------------------|
| 6. Transporter 1 Company Name<br><i>Bay Area Tank Truck (BATT)</i> | U.S. EPA ID Number<br><i>CA0000000000</i> |
|--------------------------------------------------------------------|-------------------------------------------|

|                               |                    |
|-------------------------------|--------------------|
| 7. Transporter 2 Company Name | U.S. EPA ID Number |
|-------------------------------|--------------------|

|                                                                                                                                                 |                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 8. Designated Facility Name and Site Address<br><i>Clean Harbor Substation<br/>2700 West Liberty Road<br/>Bartlett, CA 95706 (415) 624-6000</i> | U.S. EPA ID Number |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|

| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers |      | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes |
|--------|----------------------------------------------------------------------------------------------------------------|----------------|------|--------------------|-------------------|-----------------|
|        |                                                                                                                | No.            | Type |                    |                   |                 |
| 1.     | <i>HAZARDOUS WASTE, SOLID, N.O.S. (Tetrachloroethene), S.D. III</i>                                            |                |      |                    |                   |                 |
| 2.     |                                                                                                                |                |      |                    |                   |                 |
| 3.     |                                                                                                                |                |      |                    |                   |                 |
| 4.     |                                                                                                                |                |      |                    |                   |                 |

|                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 14. Special Handling Instructions and Additional Information<br><i>Approval No. CH18000008<br/>Sales Order 7W-1-1767<br/>Wear appropriate PPE</i> |
|---------------------------------------------------------------------------------------------------------------------------------------------------|

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

|                                          |           |       |     |      |
|------------------------------------------|-----------|-------|-----|------|
| Generator's/Offorer's Printed/Typed Name | Signature | Month | Day | Year |
|------------------------------------------|-----------|-------|-----|------|

|                             |                                         |                                           |                     |                    |
|-----------------------------|-----------------------------------------|-------------------------------------------|---------------------|--------------------|
| 16. International Shipments | <input type="checkbox"/> Import to U.S. | <input type="checkbox"/> Export from U.S. | Port of entry/exit: | Date leaving U.S.: |
|-----------------------------|-----------------------------------------|-------------------------------------------|---------------------|--------------------|

|                                                        |                              |       |     |      |
|--------------------------------------------------------|------------------------------|-------|-----|------|
| 17. Transporter Acknowledgment of Receipt of Materials |                              |       |     |      |
| Transporter 1 Printed/Typed Name<br><i>Leopoldo</i>    | Signature<br><i>Leopoldo</i> | Month | Day | Year |
| Transporter 2 Printed/Typed Name                       | Signature                    | Month | Day | Year |

|                                   |                                   |                               |                                  |                                            |                                         |
|-----------------------------------|-----------------------------------|-------------------------------|----------------------------------|--------------------------------------------|-----------------------------------------|
| 18. Discrepancy                   |                                   |                               |                                  |                                            |                                         |
| 18a. Discrepancy Indication Space | <input type="checkbox"/> Quantity | <input type="checkbox"/> Type | <input type="checkbox"/> Residue | <input type="checkbox"/> Partial Rejection | <input type="checkbox"/> Full Rejection |
| Manifest Reference Number:        |                                   |                               |                                  |                                            |                                         |

|                                        |                    |
|----------------------------------------|--------------------|
| 18b. Alternate Facility (or Generator) | U.S. EPA ID Number |
|----------------------------------------|--------------------|

|                                                     |       |     |      |
|-----------------------------------------------------|-------|-----|------|
| 18c. Signature of Alternate Facility (or Generator) | Month | Day | Year |
|-----------------------------------------------------|-------|-----|------|

|                                                                                                                                 |    |    |    |
|---------------------------------------------------------------------------------------------------------------------------------|----|----|----|
| 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) |    |    |    |
| 1.                                                                                                                              | 2. | 3. | 4. |

|                                                                                                                                                |           |       |     |      |
|------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------|-----|------|
| 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a |           |       |     |      |
| Printed/Typed Name                                                                                                                             | Signature | Month | Day | Year |

**APPENDIX D**  
**LABORATORY ANALYTICAL DATA**



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1405079

**Report Created for:** AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597

**Project Contact:** Jeremy Smith  
**Project P.O.:** #56432  
**Project Name:** #261829; Foothill Square

**Project Received:** 05/02/2014

Analytical Report reviewed & approved for release on 05/07/2014 by:

*Question about  
your data?*

[Click here to email  
McC Campbell](#)

Angela Rydelius,  
Laboratory Manager

***The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.***





## Glossary of Terms & Qualifier Definitions

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**WorkOrder:** 1405079

### Glossary Abbreviation

|              |                                                                                                                                                                                                     |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 95% Interval | 95% Confident Interval                                                                                                                                                                              |
| DF           | Dilution Factor                                                                                                                                                                                     |
| DUP          | Duplicate                                                                                                                                                                                           |
| EDL          | Estimated Detection Limit                                                                                                                                                                           |
| ITEF         | International Toxicity Equivalence Factor                                                                                                                                                           |
| LCS          | Laboratory Control Sample                                                                                                                                                                           |
| MB           | Method Blank                                                                                                                                                                                        |
| MB % Rec     | % Recovery of Surrogate in Method Blank, if applicable                                                                                                                                              |
| MDL          | Method Detection Limit                                                                                                                                                                              |
| ML           | Minimum Level of Quantitation                                                                                                                                                                       |
| MS           | Matrix Spike                                                                                                                                                                                        |
| MSD          | Matrix Spike Duplicate                                                                                                                                                                              |
| ND           | Not detected at or above the indicated MDL or RL                                                                                                                                                    |
| NR           | Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content. |
| RD           | Relative Difference                                                                                                                                                                                 |
| RL           | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)                                                                                                            |
| RPD          | Relative Percent Deviation                                                                                                                                                                          |
| RRT          | Relative Retention Time                                                                                                                                                                             |
| SPK Val      | Spike Value                                                                                                                                                                                         |
| SPKRef Val   | Spike Reference Value                                                                                                                                                                               |
| TEQ          | Toxicity Equivalence                                                                                                                                                                                |

### Analytical Qualifier

H samples were analyzed out of holding time



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/2/14 12:04  
**Date Prepared:** 5/2/14-5/3/14

**WorkOrder:** 1405079  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS

| Client ID   | Lab ID              | Matrix/ExtType | Date Collected          | Instrument  | Batch ID     |
|-------------|---------------------|----------------|-------------------------|-------------|--------------|
| <b>VM-3</b> | <b>1405079-001A</b> | <b>Air</b>     | <b>05/02/2014 09:30</b> | <b>GC28</b> | <b>90026</b> |

| Analytes                 | Result        | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | ND            | H          | 500    | 2  | 05/03/2014 10:17 |
| trans-1,2-Dichloroethene | ND            | H          | 500    | 2  | 05/03/2014 10:17 |
| Tetrachloroethene        | <b>25,000</b> | H          | 500    | 2  | 05/03/2014 10:17 |
| Trichloroethene          | <b>2400</b>   | H          | 500    | 2  | 05/03/2014 10:17 |
| Vinyl Chloride           | ND            | H          | 500    | 2  | 05/03/2014 10:17 |
| Surrogates               | REC (%)       | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 113           | H          | 70-130 |    | 05/03/2014 10:17 |
| Toluene-d8               | 117           | H          | 70-130 |    | 05/03/2014 10:17 |

| Client ID   | Lab ID              | Matrix/ExtType | Date Collected          | Instrument  | Batch ID     |
|-------------|---------------------|----------------|-------------------------|-------------|--------------|
| <b>VM-4</b> | <b>1405079-002A</b> | <b>Air</b>     | <b>05/02/2014 10:30</b> | <b>GC10</b> | <b>90027</b> |

| Analytes                 | Result        | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | <b>20,000</b> | H          | 500    | 2  | 05/02/2014 21:14 |
| trans-1,2-Dichloroethene | <b>2600</b>   | H          | 500    | 2  | 05/02/2014 21:14 |
| Tetrachloroethene        | <b>23,000</b> | H          | 500    | 2  | 05/02/2014 21:14 |
| Trichloroethene          | <b>16,000</b> | H          | 500    | 2  | 05/02/2014 21:14 |
| Vinyl Chloride           | ND            | H          | 500    | 2  | 05/02/2014 21:14 |
| Surrogates               | REC (%)       | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 125           | H          | 70-130 |    | 05/02/2014 21:14 |
| Toluene-d8               | 107           | H          | 70-130 |    | 05/02/2014 21:14 |

| Client ID   | Lab ID              | Matrix/ExtType | Date Collected          | Instrument  | Batch ID     |
|-------------|---------------------|----------------|-------------------------|-------------|--------------|
| <b>VM-5</b> | <b>1405079-003A</b> | <b>Air</b>     | <b>05/02/2014 10:20</b> | <b>GC28</b> | <b>90026</b> |

| Analytes                 | Result           | Qualifiers | RL      | DF  | Date Analyzed    |
|--------------------------|------------------|------------|---------|-----|------------------|
| cis-1,2-Dichloroethene   | <b>2,500,000</b> | H          | 100,000 | 400 | 05/02/2014 22:24 |
| trans-1,2-Dichloroethene | <b>460,000</b>   | H          | 100,000 | 400 | 05/02/2014 22:24 |
| Tetrachloroethene        | <b>1,200,000</b> | H          | 100,000 | 400 | 05/02/2014 22:24 |
| Trichloroethene          | <b>2,100,000</b> | H          | 100,000 | 400 | 05/02/2014 22:24 |
| Vinyl Chloride           | <b>1,100,000</b> | H          | 100,000 | 400 | 05/02/2014 22:24 |
| Surrogates               | REC (%)          | Qualifiers | Limits  |     |                  |
| Dibromofluoromethane     | 113              | H          | 70-130  |     | 05/02/2014 22:24 |
| Toluene-d8               | 117              | H          | 70-130  |     | 05/02/2014 22:24 |

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/2/14 12:04  
**Date Prepared:** 5/2/14-5/3/14

**WorkOrder:** 1405079  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| VM-6      | 1405079-004A | Air            | 05/02/2014 09:50 | GC10       | 90027    |

| Analytes                 | Result  | RL     | DF | Date Analyzed    |
|--------------------------|---------|--------|----|------------------|
| cis-1,2-Dichloroethene   | 8500    | 250    | 1  | 05/02/2014 14:00 |
| trans-1,2-Dichloroethene | 1200    | 250    | 1  | 05/02/2014 14:00 |
| Tetrachloroethene        | 15,000  | 250    | 1  | 05/02/2014 14:00 |
| Trichloroethene          | 5000    | 250    | 1  | 05/02/2014 14:00 |
| Vinyl Chloride           | ND      | 250    | 1  | 05/02/2014 14:00 |
| Surrogates               | REC (%) | Limits |    |                  |
| Dibromofluoromethane     | 123     | 70-130 |    | 05/02/2014 14:00 |
| Toluene-d8               | 107     | 70-130 |    | 05/02/2014 14:00 |

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| VM-7      | 1405079-005A | Air            | 05/02/2014 09:10 | GC28       | 90026    |

| Analytes                 | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | ND      | H          | 250    | 1  | 05/03/2014 10:56 |
| trans-1,2-Dichloroethene | ND      | H          | 250    | 1  | 05/03/2014 10:56 |
| Tetrachloroethene        | 16,000  | H          | 250    | 1  | 05/03/2014 10:56 |
| Trichloroethene          | 6300    | H          | 250    | 1  | 05/03/2014 10:56 |
| Vinyl Chloride           | ND      | H          | 250    | 1  | 05/03/2014 10:56 |
| Surrogates               | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 114     | H          | 70-130 |    | 05/03/2014 10:56 |
| Toluene-d8               | 115     | H          | 70-130 |    | 05/03/2014 10:56 |

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| VM-8      | 1405079-006A | Air            | 05/02/2014 10:50 | GC10       | 90027    |

| Analytes                 | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | 14,000  | H          | 1000   | 4  | 05/02/2014 21:56 |
| trans-1,2-Dichloroethene | 1800    | H          | 1000   | 4  | 05/02/2014 21:56 |
| Tetrachloroethene        | 29,000  | H          | 1000   | 4  | 05/02/2014 21:56 |
| Trichloroethene          | 16,000  | H          | 1000   | 4  | 05/02/2014 21:56 |
| Vinyl Chloride           | ND      | H          | 1000   | 4  | 05/02/2014 21:56 |
| Surrogates               | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 122     | H          | 70-130 |    | 05/02/2014 21:56 |
| Toluene-d8               | 107     | H          | 70-130 |    | 05/02/2014 21:56 |

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# Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/2/14 12:04  
**Date Prepared:** 5/2/14-5/3/14

**WorkOrder:** 1405079  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

## Halogenated Volatile Organics by P&T and GC-MS

| Client ID   | Lab ID              | Matrix/ExtType | Date Collected          | Instrument  | Batch ID     |
|-------------|---------------------|----------------|-------------------------|-------------|--------------|
| <b>VM-9</b> | <b>1405079-007A</b> | <b>Air</b>     | <b>05/02/2014 08:30</b> | <b>GC28</b> | <b>90026</b> |

| Analytes                 | Result           | Qualifiers | RL      | DF  | Date Analyzed    |
|--------------------------|------------------|------------|---------|-----|------------------|
| cis-1,2-Dichloroethene   | <b>470,000</b>   | H          | 100,000 | 400 | 05/03/2014 09:39 |
| trans-1,2-Dichloroethene | ND               | H          | 100,000 | 400 | 05/03/2014 09:39 |
| Tetrachloroethene        | <b>3,400,000</b> | H          | 100,000 | 400 | 05/03/2014 09:39 |
| Trichloroethene          | <b>1,200,000</b> | H          | 100,000 | 400 | 05/03/2014 09:39 |
| Vinyl Chloride           | ND               | H          | 100,000 | 400 | 05/03/2014 09:39 |
| Surrogates               | REC (%)          | Qualifiers | Limits  |     |                  |
| Dibromofluoromethane     | 114              | H          | 70-130  |     | 05/03/2014 09:39 |
| Toluene-d8               | 117              | H          | 70-130  |     | 05/03/2014 09:39 |

| Client ID   | Lab ID              | Matrix/ExtType | Date Collected          | Instrument  | Batch ID     |
|-------------|---------------------|----------------|-------------------------|-------------|--------------|
| <b>SS-1</b> | <b>1405079-008A</b> | <b>Air</b>     | <b>05/02/2014 08:00</b> | <b>GC10</b> | <b>90027</b> |

| Analytes                 | Result      | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|-------------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | <b>1200</b> | H          | 250    | 1  | 05/03/2014 09:46 |
| trans-1,2-Dichloroethene | ND          | H          | 250    | 1  | 05/03/2014 09:46 |
| Tetrachloroethene        | <b>9900</b> | H          | 250    | 1  | 05/03/2014 09:46 |
| Trichloroethene          | <b>1600</b> | H          | 250    | 1  | 05/03/2014 09:46 |
| Vinyl Chloride           | ND          | H          | 250    | 1  | 05/03/2014 09:46 |
| Surrogates               | REC (%)     | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 121         | H          | 70-130 |    | 05/03/2014 09:46 |
| Toluene-d8               | 106         | H          | 70-130 |    | 05/03/2014 09:46 |

| Client ID   | Lab ID              | Matrix/ExtType | Date Collected          | Instrument  | Batch ID     |
|-------------|---------------------|----------------|-------------------------|-------------|--------------|
| <b>SS-2</b> | <b>1405079-009A</b> | <b>Air</b>     | <b>05/02/2014 10:10</b> | <b>GC28</b> | <b>90026</b> |

| Analytes                 | Result      | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|-------------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | ND          | H          | 250    | 1  | 05/03/2014 12:51 |
| trans-1,2-Dichloroethene | ND          | H          | 250    | 1  | 05/03/2014 12:51 |
| Tetrachloroethene        | <b>2500</b> | H          | 250    | 1  | 05/03/2014 12:51 |
| Trichloroethene          | ND          | H          | 250    | 1  | 05/03/2014 12:51 |
| Vinyl Chloride           | ND          | H          | 250    | 1  | 05/03/2014 12:51 |
| Surrogates               | REC (%)     | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 114         | H          | 70-130 |    | 05/03/2014 12:51 |
| Toluene-d8               | 117         | H          | 70-130 |    | 05/03/2014 12:51 |

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## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/2/14 12:04  
**Date Prepared:** 5/2/14-5/3/14

**WorkOrder:** 1405079  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SS-3      | 1405079-010A | Air            | 05/02/2014 09:20 | GC10       | 90027    |

| Analytes                 | Result        | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | ND            | H          | 1000   | 4  | 05/02/2014 22:38 |
| trans-1,2-Dichloroethene | ND            | H          | 1000   | 4  | 05/02/2014 22:38 |
| Tetrachloroethene        | <b>30,000</b> | H          | 1000   | 4  | 05/02/2014 22:38 |
| Trichloroethene          | <b>3900</b>   | H          | 1000   | 4  | 05/02/2014 22:38 |
| Vinyl Chloride           | ND            | H          | 1000   | 4  | 05/02/2014 22:38 |
| Surrogates               | REC (%)       | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 122           | H          | 70-130 |    | 05/02/2014 22:38 |
| Toluene-d8               | 108           | H          | 70-130 |    | 05/02/2014 22:38 |

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SS-4      | 1405079-011A | Air            | 05/02/2014 10:40 | GC10       | 90027    |

| Analytes                 | Result        | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | ND            | H          | 250    | 1  | 05/02/2014 16:55 |
| trans-1,2-Dichloroethene | ND            | H          | 250    | 1  | 05/02/2014 16:55 |
| Tetrachloroethene        | <b>19,000</b> | H          | 250    | 1  | 05/02/2014 16:55 |
| Trichloroethene          | <b>1200</b>   | H          | 250    | 1  | 05/02/2014 16:55 |
| Vinyl Chloride           | ND            | H          | 250    | 1  | 05/02/2014 16:55 |
| Surrogates               | REC (%)       | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 126           | H          | 70-130 |    | 05/02/2014 16:55 |
| Toluene-d8               | 107           | H          | 70-130 |    | 05/02/2014 16:55 |

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SS-6      | 1405079-013A | Air            | 05/02/2014 09:40 | GC28       | 90026    |

| Analytes                 | Result        | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | ND            | H          | 500    | 2  | 05/03/2014 11:34 |
| trans-1,2-Dichloroethene | ND            | H          | 500    | 2  | 05/03/2014 11:34 |
| Tetrachloroethene        | <b>20,000</b> | H          | 500    | 2  | 05/03/2014 11:34 |
| Trichloroethene          | <b>1400</b>   | H          | 500    | 2  | 05/03/2014 11:34 |
| Vinyl Chloride           | ND            | H          | 500    | 2  | 05/03/2014 11:34 |
| Surrogates               | REC (%)       | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 113           | H          | 70-130 |    | 05/03/2014 11:34 |
| Toluene-d8               | 116           | H          | 70-130 |    | 05/03/2014 11:34 |

(Cont.)



# Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/2/14 12:04  
**Date Prepared:** 5/2/14-5/3/14

**WorkOrder:** 1405079  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

## Halogenated Volatile Organics by P&T and GC-MS

| Client ID   | Lab ID              | Matrix/ExtType | Date Collected          | Instrument  | Batch ID     |
|-------------|---------------------|----------------|-------------------------|-------------|--------------|
| <b>SS-7</b> | <b>1405079-014A</b> | <b>Air</b>     | <b>05/02/2014 09:00</b> | <b>GC10</b> | <b>90027</b> |

| Analytes                 | Result      | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|-------------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | ND          | H          | 250    | 1  | 05/02/2014 17:37 |
| trans-1,2-Dichloroethene | ND          | H          | 250    | 1  | 05/02/2014 17:37 |
| Tetrachloroethene        | <b>4800</b> | H          | 250    | 1  | 05/02/2014 17:37 |
| Trichloroethene          | <b>300</b>  | H          | 250    | 1  | 05/02/2014 17:37 |
| Vinyl Chloride           | ND          | H          | 250    | 1  | 05/02/2014 17:37 |
| Surrogates               | REC (%)     | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 123         | H          | 70-130 |    | 05/02/2014 17:37 |
| Toluene-d8               | 107         | H          | 70-130 |    | 05/02/2014 17:37 |

| Client ID   | Lab ID              | Matrix/ExtType | Date Collected          | Instrument  | Batch ID     |
|-------------|---------------------|----------------|-------------------------|-------------|--------------|
| <b>SS-8</b> | <b>1405079-015A</b> | <b>Air</b>     | <b>05/02/2014 10:45</b> | <b>GC28</b> | <b>90026</b> |

| Analytes                 | Result        | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | ND            | H          | 250    | 1  | 05/02/2014 17:52 |
| trans-1,2-Dichloroethene | ND            | H          | 250    | 1  | 05/02/2014 17:52 |
| Tetrachloroethene        | <b>15,000</b> | H          | 250    | 1  | 05/02/2014 17:52 |
| Trichloroethene          | <b>1000</b>   | H          | 250    | 1  | 05/02/2014 17:52 |
| Vinyl Chloride           | ND            | H          | 250    | 1  | 05/02/2014 17:52 |
| Surrogates               | REC (%)       | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 114           | H          | 70-130 |    | 05/02/2014 17:52 |
| Toluene-d8               | 117           | H          | 70-130 |    | 05/02/2014 17:52 |

| Client ID   | Lab ID              | Matrix/ExtType | Date Collected          | Instrument  | Batch ID     |
|-------------|---------------------|----------------|-------------------------|-------------|--------------|
| <b>SS-9</b> | <b>1405079-016A</b> | <b>Air</b>     | <b>05/02/2014 08:20</b> | <b>GC10</b> | <b>90027</b> |

| Analytes                 | Result      | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|-------------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | <b>370</b>  | H          | 250    | 1  | 05/02/2014 18:19 |
| trans-1,2-Dichloroethene | ND          | H          | 250    | 1  | 05/02/2014 18:19 |
| Tetrachloroethene        | <b>4700</b> | H          | 250    | 1  | 05/02/2014 18:19 |
| Trichloroethene          | <b>610</b>  | H          | 250    | 1  | 05/02/2014 18:19 |
| Vinyl Chloride           | ND          | H          | 250    | 1  | 05/02/2014 18:19 |
| Surrogates               | REC (%)     | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 122         | H          | 70-130 |    | 05/02/2014 18:19 |
| Toluene-d8               | 108         | H          | 70-130 |    | 05/02/2014 18:19 |

(Cont.)



# Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/2/14 12:04  
**Date Prepared:** 5/2/14-5/3/14

**WorkOrder:** 1405079  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

## Halogenated Volatile Organics by P&T and GC-MS

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SS-10     | 1405079-017A | Air            | 05/02/2014 10:00 | GC28       | 90026    |

| Analytes                 | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | 2800    | H          | 500    | 2  | 05/03/2014 12:13 |
| trans-1,2-Dichloroethene | ND      | H          | 500    | 2  | 05/03/2014 12:13 |
| Tetrachloroethene        | 23,000  | H          | 500    | 2  | 05/03/2014 12:13 |
| Trichloroethene          | 7300    | H          | 500    | 2  | 05/03/2014 12:13 |
| Vinyl Chloride           | ND      | H          | 500    | 2  | 05/03/2014 12:13 |
| Surrogates               | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 113     | H          | 70-130 |    | 05/03/2014 12:13 |
| Toluene-d8               | 117     | H          | 70-130 |    | 05/03/2014 12:13 |

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD-INF   | 1405079-018A | Air            | 05/02/2014 07:30 | GC28       | 90026    |

| Analytes                 | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | ND      | H          | 250    | 1  | 05/03/2014 13:29 |
| trans-1,2-Dichloroethene | ND      | H          | 250    | 1  | 05/03/2014 13:29 |
| Tetrachloroethene        | 1800    | H          | 250    | 1  | 05/03/2014 13:29 |
| Trichloroethene          | 320     | H          | 250    | 1  | 05/03/2014 13:29 |
| Vinyl Chloride           | ND      | H          | 250    | 1  | 05/03/2014 13:29 |
| Surrogates               | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 116     | H          | 70-130 |    | 05/03/2014 13:29 |
| Toluene-d8               | 116     | H          | 70-130 |    | 05/03/2014 13:29 |

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-1 INF | 1405079-019A | Air            | 05/02/2014 07:45 | GC10       | 90027    |

| Analytes                 | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | 38,000  | H          | 2500   | 10 | 05/02/2014 23:19 |
| trans-1,2-Dichloroethene | 5000    | H          | 2500   | 10 | 05/02/2014 23:19 |
| Tetrachloroethene        | 75,000  | H          | 2500   | 10 | 05/02/2014 23:19 |
| Trichloroethene          | 25,000  | H          | 2500   | 10 | 05/02/2014 23:19 |
| Vinyl Chloride           | ND      | H          | 2500   | 10 | 05/02/2014 23:19 |
| Surrogates               | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 123     | H          | 70-130 |    | 05/02/2014 23:19 |
| Toluene-d8               | 107     | H          | 70-130 |    | 05/02/2014 23:19 |



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 5/5/14  
**Date Analyzed:** 5/2/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1405079  
**BatchID:** 90026  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-90026  
 1405053-007AMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 21.8       | 0.50 | 20      | -          | 109      | 70-130     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 21.4       | 0.50 | 20      | -          | 107      | 70-130     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 19.1       | 0.50 | 20      | -          | 95.7     | 70-130     |
| 1,1-Dichloroethene            | ND        | 20.7       | 0.50 | 20      | -          | 103      | 70-130     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



## Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 5/5/14  
**Date Analyzed:** 5/2/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1405079  
**BatchID:** 90026  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-90026  
 1405053-007AMS/MSD

### QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 21.5       | 0.50 | 20      | -          | 108      | 70-130     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |
| <b>Surrogate Recovery</b>     |           |            |      |         |            |          |            |
| Dibromofluoromethane          | 28.6      | 50.9       |      | 45      | 114        | 113      | 70-130     |
| Toluene-d8                    | 29.3      | 52.1       |      | 45      | 117        | 116      | 70-130     |
| 4-BFB                         | 2.61      | 4.55       |      | 4.5     | 104        | 101      | 70-130     |

(Cont.)



## Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 5/5/14  
**Date Analyzed:** 5/2/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1405079  
**BatchID:** 90026  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-90026  
 1405053-007AMS/MSD

### QC Summary Report for SW8260B

| Analyte                      | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD   | RPD Limit |
|------------------------------|-----------|------------|---------|------------|---------|----------|---------------|-------|-----------|
| Chlorobenzene                | 22.3      | 21.4       | 20      | ND         | 111     | 107      | 70-130        | 4.17  | 20        |
| 1,2-Dibromoethane (EDB)      | 22.4      | 21.7       | 20      | ND         | 112     | 108      | 70-130        | 3.01  | 20        |
| 1,2-Dichloroethane (1,2-DCA) | 20.4      | 19.5       | 20      | ND         | 102     | 97.6     | 70-130        | 4.18  | 20        |
| 1,1-Dichloroethene           | 20.6      | 20.1       | 20      | ND         | 103     | 101      | 70-130        | 2.27  | 20        |
| Trichloroethene              | 21.8      | 21.2       | 20      | ND         | 109     | 106      | 70-130        | 2.50  | 20        |
| <b>Surrogate Recovery</b>    |           |            |         |            |         |          |               |       |           |
| Dibromofluoromethane         | 52.0      | 51.6       | 45      |            | 116     | 115      | 70-130        | 0.876 | 20        |
| Toluene-d8                   | 52.2      | 51.1       | 45      |            | 116     | 114      | 70-130        | 2.12  | 20        |
| 4-BFB                        | 4.42      | 4.38       | 4.5     |            | 98      | 97       | 70-130        | 0.764 | 20        |

(Cont.)



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 5/5/14  
**Date Analyzed:** 5/2/14  
**Instrument:** GC10  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1405079  
**BatchID:** 90027  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-90027

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 20.5       | 0.50 | 20      | -          | 103      | 70-130     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 20.3       | 0.50 | 20      | -          | 102      | 70-130     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 19.1       | 0.50 | 20      | -          | 95.5     | 70-130     |
| 1,1-Dichloroethene            | ND        | 20.5       | 0.50 | 20      | -          | 102      | 70-130     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)





# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 5/5/14  
**Date Analyzed:** 5/2/14  
**Instrument:** GC10  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1405079  
**BatchID:** 90027  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-90027

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 21.0       | 0.50 | 20      | -          | 105      | 70-130     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |
| <b>Surrogate Recovery</b>     |           |            |      |         |            |          |            |
| Dibromofluoromethane          | 29.8      | 51.5       |      | 45      | 119        | 114      | 70-130     |
| Toluene-d8                    | 27.0      | 45.7       |      | 45      | 108        | 102      | 70-130     |
| 4-BFB                         | 2.55      | 4.44       |      | 4.5     | 102        | 99       | 70-130     |



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1405079

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQUS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**  
 Jeremy Smith  
 AEI Consultants  
 2500 Camino Diablo, Ste.#200  
 Walnut Creek, CA 94597  
 (408) 559-7600    FAX: (408) 559-7601

Email: jasmith@aeiconsultants.com  
 cc/3rd Party:  
 PO: #56432  
 ProjectNo: #261829; Foothill Square

**Bill to:**  
 Sara Guerin  
 AEI Consultants  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597  
 AccountsPayable@AEIConsultants.co

**Requested TAT: 5 days**  
  
**Date Received: 05/02/2014**  
**Date Printed: 05/08/2014**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1405079-001 | VM-3      | Air    | 5/2/2014 9:30   | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |
| 1405079-002 | VM-4      | Air    | 5/2/2014 10:30  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-003 | VM-5      | Air    | 5/2/2014 10:20  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-004 | VM-6      | Air    | 5/2/2014 9:50   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-005 | VM-7      | Air    | 5/2/2014 9:10   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-006 | VM-8      | Air    | 5/2/2014 10:50  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-007 | VM-9      | Air    | 5/2/2014 8:30   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-008 | SS-1      | Air    | 5/2/2014 8:00   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-009 | SS-2      | Air    | 5/2/2014 10:10  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-010 | SS-3      | Air    | 5/2/2014 9:20   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-011 | SS-4      | Air    | 5/2/2014 10:40  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-013 | SS-6      | Air    | 5/2/2014 9:40   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-014 | SS-7      | Air    | 5/2/2014 9:00   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-015 | SS-8      | Air    | 5/2/2014 10:45  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-016 | SS-9      | Air    | 5/2/2014 8:20   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-017 | SS-10     | Air    | 5/2/2014 10:00  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |

**Test Legend:**

|    |           |    |              |   |  |   |  |    |  |
|----|-----------|----|--------------|---|--|---|--|----|--|
| 1  | 8010BMS_A | 2  | PREDF REPORT | 3 |  | 4 |  | 5  |  |
| 6  |           | 7  |              | 8 |  | 9 |  | 10 |  |
| 11 |           | 12 |              |   |  |   |  |    |  |

The following SamplIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 013A, 014A, 015A, 016A, 017A, 018A, 019A contain testgroup.

**Prepared by: Maria Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1405079

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQuIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**  
 Jeremy Smith  
 AEI Consultants  
 2500 Camino Diablo, Ste.#200  
 Walnut Creek, CA 94597  
 (408) 559-7600    FAX: (408) 559-7601

Email: jasmith@aeiconsultants.com  
 cc/3rd Party:  
 PO: #56432  
 ProjectNo: #261829; Foothill Square

**Bill to:**  
 Sara Guerin  
 AEI Consultants  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597  
 AccountsPayable@AEIConsultants.co

**Requested TAT: 5 days**  
  
**Date Received: 05/02/2014**  
**Date Printed: 05/08/2014**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 1405079-018 | SSD-INF   | Air    | 5/2/2014 7:30   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1405079-019 | SVE-1 INF | Air    | 5/2/2014 7:45   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |           |    |              |   |  |   |  |    |  |
|----|-----------|----|--------------|---|--|---|--|----|--|
| 1  | 8010BMS_A | 2  | PREDF REPORT | 3 |  | 4 |  | 5  |  |
| 6  |           | 7  |              | 8 |  | 9 |  | 10 |  |
| 11 |           | 12 |              |   |  |   |  |    |  |

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 013A, 014A, 015A, 016A, 017A, 018A, 019A contain testgroup.

**Prepared by: Maria Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS  
**Project:** #261829; Foothill Square  
**Comments:**

**QC Level:** LEVEL 2  
**Client Contact:** Jeremy Smith  
**Contact's Email:** jasmith@aeiconsultants.com

**Work Order:** 1405079  
**Date Received:** 5/2/2014

WaterTrax     WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

| Lab ID       | Client ID | Matrix | Test Name     | Number of Containers | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT    | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|---------------|----------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1405079-001A | VM-3      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 9:30          | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-002A | VM-4      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 10:30         | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-003A | VM-5      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 10:20         | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-004A | VM-6      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 9:50          | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-005A | VM-7      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 9:10          | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-006A | VM-8      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 10:50         | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-007A | VM-9      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 8:30          | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-008A | SS-1      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 8:00          | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-009A | SS-2      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 10:10         | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-010A | SS-3      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 9:20          | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-011A | SS-4      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 10:40         | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-012A | SS-5      | Air    |               | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 10:15         |        |                  | <input type="checkbox"/> |        |
| 1405079-013A | SS-6      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 9:40          | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-014A | SS-7      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 9:00          | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-015A | SS-8      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 10:45         | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-016A | SS-9      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 8:20          | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-017A | SS-10     | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 10:00         | 5 days |                  | <input type="checkbox"/> |        |

**\* NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

**Bottle Legend:**

Tedlar = Tedlar Air Bag



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS  
**Project:** #261829; Foothill Square  
**Comments:**

**QC Level:** LEVEL 2  
**Client Contact:** Jeremy Smith  
**Contact's Email:** jasmith@aeiconsultants.com

**Work Order:** 1405079  
**Date Received:** 5/2/2014

WaterTrax     WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

| Lab ID       | Client ID | Matrix | Test Name     | Number of Containers | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT    | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|---------------|----------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1405079-018A | SSD-INF   | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 7:30          | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-019A | SVE-1 INF | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 7:45          | 5 days |                  | <input type="checkbox"/> |        |

**\* NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

**Bottle Legend:**

Tedlar = Tedlar Air Bag

1405079

**McCAMPBELL ANALYTICAL INC.**

1534 Willow Pass Road  
Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

**CHAIN OF CUSTODY RECORD**

**TURN AROUND TIME**

RUSH  24 HR  48 HR  72 HR  5 DAY

EDF Required?  Yes  No

Report To: **Jeremy Smith** Bill To: **same** P.O. # **56432**  
 Company: **AEI Consultants**  
**2500 Camino Diablo**  
**Walnut Creek, CA 94597** E-Mail: **jasmith@aeiconsultants.com**  
 Tele: (925) 746-6000 Fax: (925) 746-6099  
 Project #: **261829** Project Name: **Foothill Square**  
 Project Location: **10700 MacArthur Blvd., Oakland, California**  
 Sampler Signature: *John Sagg*

**Analysis Request**

**Other**

**Comments**

|                   |                                             |                            |                                  |                                                 |                                            |                 |                           |                                              |                        |                                        |                       |                                       |                               |                                      |      |  |
|-------------------|---------------------------------------------|----------------------------|----------------------------------|-------------------------------------------------|--------------------------------------------|-----------------|---------------------------|----------------------------------------------|------------------------|----------------------------------------|-----------------------|---------------------------------------|-------------------------------|--------------------------------------|------|--|
| BTEX / MTBE 8021B | TPH Multi-Range (8015) w/silica Gel Cleanup | TPHg Using EPA Method 8015 | TPHg / TPHd 8015 with Silica Gel | TPH as Hydraulic Oil w/ Silica Gel Cleanup 8015 | Benzene, Ethylbenzene, Naphthalene ( 8260) | Nitrate/Nitrite | EPA 608 / 8080 PCB's ONLY | HVOCs 8260, PCE, TCE, cis/trans, 1,2 DCE, VC | SVOCs (with PAHs) 8270 | PAH's / PNA's by EPA 625 / 8270 / 8310 | CAM-17 Metals by 6010 | CAM -17 Metals by E200.8 (Dissolved). | OC Pesticides EPA Method 8081 | OC Acidic Herbicides EPA Method 8151 | HOLD |  |
|                   |                                             |                            |                                  |                                                 |                                            |                 |                           | X                                            |                        |                                        |                       |                                       |                               |                                      |      |  |
|                   |                                             |                            |                                  |                                                 |                                            |                 |                           | X                                            |                        |                                        |                       |                                       |                               |                                      |      |  |
|                   |                                             |                            |                                  |                                                 |                                            |                 |                           | X                                            |                        |                                        |                       |                                       |                               |                                      |      |  |
|                   |                                             |                            |                                  |                                                 |                                            |                 |                           | X                                            |                        |                                        |                       |                                       |                               |                                      |      |  |
|                   |                                             |                            |                                  |                                                 |                                            |                 |                           | X                                            |                        |                                        |                       |                                       |                               |                                      |      |  |
|                   |                                             |                            |                                  |                                                 |                                            |                 |                           | X                                            |                        |                                        |                       |                                       |                               |                                      |      |  |
|                   |                                             |                            |                                  |                                                 |                                            |                 |                           | X                                            |                        |                                        |                       |                                       |                               |                                      |      |  |
|                   |                                             |                            |                                  |                                                 |                                            |                 |                           | X                                            |                        |                                        |                       |                                       |                               |                                      |      |  |
|                   |                                             |                            |                                  |                                                 |                                            |                 |                           | X                                            |                        |                                        |                       |                                       |                               |                                      |      |  |
|                   |                                             |                            |                                  |                                                 |                                            |                 |                           | X                                            |                        |                                        |                       |                                       |                               |                                      |      |  |
|                   |                                             |                            |                                  |                                                 |                                            |                 |                           | X                                            |                        |                                        |                       |                                       |                               |                                      |      |  |
|                   |                                             |                            |                                  |                                                 |                                            |                 |                           | X                                            |                        |                                        |                       |                                       |                               |                                      |      |  |
|                   |                                             |                            |                                  |                                                 |                                            |                 |                           | X                                            |                        |                                        |                       |                                       |                               |                                      |      |  |

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |
| <del>VM-1</del>                 |          | 5-2-14   |      | 1            | TB              |        |      |     | X      |       |                  |     |                  |       |  |  |
| <del>VM-2</del>                 |          |          |      | 1            | TB              |        |      |     | X      |       |                  |     |                  |       |  |  |
| VM-3                            |          |          | 0930 | 1            | TB              |        |      |     | X      |       |                  |     |                  |       |  |  |
| VM-4                            |          |          | 1030 | 1            | TB              |        |      |     | X      |       |                  |     |                  |       |  |  |
| VM-5                            |          |          | 1020 | 1            | TB              |        |      |     | X      |       |                  |     |                  |       |  |  |
| VM-6                            |          |          | 0950 | 1            | TB              |        |      |     | X      |       |                  |     |                  |       |  |  |
| VM-7                            |          |          | 0910 | 1            | TB              |        |      |     | X      |       |                  |     |                  |       |  |  |
| VM-8                            |          |          | 1050 | 1            | TB              |        |      |     | X      |       |                  |     |                  |       |  |  |
| * VM-9                          |          |          | 0830 | 1            | TB              |        |      |     | X      |       |                  |     |                  |       |  |  |
| <del>VM-10</del>                |          |          |      | 1            | TB              |        |      |     | X      |       |                  |     |                  |       |  |  |
| + SS-1                          |          |          | 0800 | 1            | TB              |        |      |     | X      |       |                  |     |                  |       |  |  |
| SS-2                            |          |          | 1010 | 1            | TB              |        |      |     | X      |       |                  |     |                  |       |  |  |
| SS-3                            |          |          | 0920 | 1            | TB              |        |      |     | X      |       |                  |     |                  |       |  |  |

Relinquished By: *John Sagg* Date: 5-2-14 Time: 1155 Received By: *Thomas*  
 Relinquished By: Date: Time: Received By:  
 Relinquished By: Date: Time: Received By:

ICE/t° NA PRESERVATION VOAS O&G METALS OTHER  
 GOOD CONDITION \_\_\_\_\_ APPROPRIATE  
 HEAD SPACE ABSENT \_\_\_\_\_ CONTAINERS \_\_\_\_\_  
 DECHLORINATED IN LAB \_\_\_\_\_ PERSERVED IN LAB \_\_\_\_\_

\* VM-9B + Bag Labeled VM1

**McCAMPBELL ANALYTICAL INC.**

1534 Willow Pass Road  
Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

**CHAIN OF CUSTODY RECORD**

**TURN AROUND TIME**

RUSH  24 HR  48 HR  72 HR  5 DAY

EDF Required?  Yes  No

**Report To:** Jeremy Smith      **Bill To:** same      **P.O. #**

**Company:** AEI Consultants

**2500 Camino Diablo**

**Walnut Creek, CA 94597**      **E-Mail:** jasmith@aeiconsultants.com

**Tele:** (925) 746-6000      **Fax:** (925) 746-6099

**Project #:** 261829      **Project Name:** Foothill Square

**Project Location:** 10700 MacArthur Blvd., Oakland, California

**Sampler Signature:** *J. Smith*

**Analysis Request**

**Other**      **Comments**

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |  |  |  |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|--|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |  |  |  |
| SS-4                            |          | 5-2-14   | 1040 | 1            | TB              |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
| SS-5                            |          |          | 1015 | 1            | TB              |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
| SS-6                            |          |          | 0940 | 1            | TB              |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
| SS-7                            |          |          | 0900 | 1            | TB              |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
| SS-8                            |          |          | 1045 | 1            | TB              |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
| SS-9                            |          |          | 0820 | 1            | TB              |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
| SS-10                           |          |          | 1000 | 1            | TB              |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
| SSD-INF                         |          |          | 0730 | 1            | TB              |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
| SVE-1 INF                       |          |          | 0745 | 1            | TB              |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |

- BTEX / MTBE 8021B
- TPH Multi-Range (8015) w/silica Gel Cleanup
- TPHg Using EPA Method 8015
- TPHg / TPHd 8015 with Silica Gel
- TPH as Hydraulic Oil w/ Silica Gel Cleanup 8015
- Benzene, Ethylbenzene, Naphthalene ( 8260)
- Nitrate/Nitrite
- EPA 608 / 8080 PCB's ONLY
- HVOCs 8260, PCE, TCE, cis/trans, 1,2 DCE, VC
- SVOCs (with PAHs) 8270
- PAH's / PNA's by EPA 625 / 8270 / 8310
- CAM-17 Metals by 6010
- CAM -17 Metals by E200.8 (Dissolved).
- OC Pesticides EPA Method 8081
- OC Acidic Herbicides EPA Method 8151

*X* Not enough sample to run

Relinquished By: *J. Smith*      Date: 5-2-14      Time: 1155      Received By: *M. V. 2*

Relinquished By:      Date:      Time:      Received By:

Relinquished By:      Date:      Time:      Received By:

ICE/c° \_\_\_\_\_      PRESERVATION \_\_\_\_\_

GOOD CONDITION \_\_\_\_\_      APPROPRIATE \_\_\_\_\_

HEAD SPACE ABSENT \_\_\_\_\_      CONTAINERS \_\_\_\_\_

DECHLORINATED IN LAB \_\_\_\_\_      PERSERVED IN LAB \_\_\_\_\_

VOAS      O&G      METALS      OTHER

\* VM-9A



### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **5/2/2014 12:04:05 PM**  
 Project Name: **#261829; Foothill Square** LogIn Reviewed by: **Maria Venegas**  
 WorkOrder N°: **1405079** Matrix: Air Carrier: Client Drop-In

**Chain of Custody (COC) Information**

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
 Container/Temp Blank temperature Cooler Temp: NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 pH acceptable upon receipt (Metal: pH<2; 522: pH<4)? Yes  No  NA   
 Samples Received on Ice? Yes  No

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments: There was not enough sample for SS-5 to run analysis





# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1401274

**Report Created for:** AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597

**Project Contact:** Jeremy Smith  
**Project P.O.:** #51236  
**Project Name:** #261829; Foothill Square

**Project Received:** 01/13/2014

Analytical Report reviewed & approved for release on 01/17/2014 by:

*Question about  
your data?*

[Click here to email  
McC Campbell](#)

Angela Rydelius,  
Laboratory Manager

***The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.***





## Glossary of Terms & Qualifier Definitions

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**WorkOrder:** 1401274

| <u>Glossary<br/>Abbreviation</u> | <u>Description</u>                                                                                                                                                                                  |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 95% Interval                     | 95% Confident Interval                                                                                                                                                                              |
| DF                               | Dilution Factor                                                                                                                                                                                     |
| DUP                              | Duplicate                                                                                                                                                                                           |
| EDL                              | Estimated Detection Limit                                                                                                                                                                           |
| ITEF                             | International Toxicity Equivalence Factor                                                                                                                                                           |
| LCS                              | Laboratory Control Sample                                                                                                                                                                           |
| MB                               | Method Blank                                                                                                                                                                                        |
| MB % Rec                         | % Recovery of Surrogate in Method Blank, if applicable                                                                                                                                              |
| MDL                              | Method Detection Limit                                                                                                                                                                              |
| MS                               | Matrix Spike                                                                                                                                                                                        |
| MSD                              | Matrix Spike Duplicate                                                                                                                                                                              |
| ND                               | Not detected at or above the indicated MDL or RL                                                                                                                                                    |
| NR                               | Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content. |
| RD                               | Relative Difference                                                                                                                                                                                 |
| RL                               | Reporting Limit                                                                                                                                                                                     |
| RPD                              | Relative Percent Deviation                                                                                                                                                                          |
| RRT                              | Relative Retention Time                                                                                                                                                                             |
| SPK Val                          | Spike Value                                                                                                                                                                                         |
| SPKRef Val                       | Spike Reference Value                                                                                                                                                                               |
| TEQ                              | Toxicity Equivalence                                                                                                                                                                                |

### Analytical Qualifier

H samples were analyzed out of holding time



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/13/14 13:17  
**Date Prepared:** 1/13/14-1/14/14

**WorkOrder:** 1401274  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|----------------|------------------|------------|----------------------|
| SSD INF                      | 1401274-001A   | Air            | 01/13/2014 11:26 | GC28       | 86010                |
| <u>Analytes</u>              | <u>Result</u>  |                | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| Bromoform                    | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| Bromomethane                 | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| Carbon Tetrachloride         | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| Chlorobenzene                | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| Chloroethane                 | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| Chloroform                   | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| Chloromethane                | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| Dibromochloromethane         | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| 1,2-Dibromoethane (EDB)      | ND             |                | 0.50             | 1          | 01/13/2014 14:09     |
| 1,2-Dichlorobenzene          | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| 1,3-Dichlorobenzene          | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| 1,4-Dichlorobenzene          | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| Dichlorodifluoromethane      | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| 1,1-Dichloroethane           | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| 1,2-Dichloroethane (1,2-DCA) | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| 1,1-Dichloroethene           | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| cis-1,2-Dichloroethene       | <b>2.2</b>     |                | 0.25             | 1          | 01/13/2014 14:09     |
| trans-1,2-Dichloroethene     | <b>0.34</b>    |                | 0.25             | 1          | 01/13/2014 14:09     |
| 1,2-Dichloropropane          | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| cis-1,3-Dichloropropene      | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| trans-1,3-Dichloropropene    | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| Freon 113                    | ND             |                | 0.50             | 1          | 01/13/2014 14:09     |
| Methylene chloride           | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| 1,1,1,2-Tetrachloroethane    | ND             |                | 0.50             | 1          | 01/13/2014 14:09     |
| 1,1,2,2-Tetrachloroethane    | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| Tetrachloroethene            | <b>18</b>      |                | 0.25             | 1          | 01/13/2014 14:09     |
| 1,1,1-Trichloroethane        | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| 1,1,2-Trichloroethane        | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| Trichloroethene              | <b>3.6</b>     |                | 0.25             | 1          | 01/13/2014 14:09     |
| Trichlorofluoromethane       | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| Vinyl Chloride               | ND             |                | 0.25             | 1          | 01/13/2014 14:09     |
| <u>Surrogates</u>            | <u>REC (%)</u> |                | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 91             |                | 70-130           |            | 01/13/2014 14:09     |
| Toluene-d8                   | 93             |                | 70-130           |            | 01/13/2014 14:09     |
| 4-BFB                        | 83             |                | 70-130           |            | 01/13/2014 14:09     |

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/13/14 13:17  
**Date Prepared:** 1/13/14-1/14/14

**WorkOrder:** 1401274  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SVE-1                        | 1401274-002A   | Air               | 01/13/2014 11:04 | GC28       | 86010                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| Bromoform                    | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| Bromomethane                 | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| Carbon Tetrachloride         | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| Chlorobenzene                | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| Chloroethane                 | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| Chloroform                   | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| Chloromethane                | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| Dibromochloromethane         | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 100              | 200        | 01/13/2014 17:57     |
| 1,2-Dichlorobenzene          | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| 1,3-Dichlorobenzene          | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| 1,4-Dichlorobenzene          | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| Dichlorodifluoromethane      | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| 1,1-Dichloroethane           | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| 1,1-Dichloroethene           | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| cis-1,2-Dichloroethene       | 1500           | H                 | 50               | 200        | 01/13/2014 17:57     |
| trans-1,2-Dichloroethene     | 420            | H                 | 50               | 200        | 01/13/2014 17:57     |
| 1,2-Dichloropropane          | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| cis-1,3-Dichloropropene      | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| trans-1,3-Dichloropropene    | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| Freon 113                    | ND             | H                 | 100              | 200        | 01/13/2014 17:57     |
| Methylene chloride           | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 100              | 200        | 01/13/2014 17:57     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| Tetrachloroethene            | 670            | H                 | 50               | 200        | 01/13/2014 17:57     |
| 1,1,1-Trichloroethane        | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| 1,1,2-Trichloroethane        | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| Trichloroethene              | 470            | H                 | 50               | 200        | 01/13/2014 17:57     |
| Trichlorofluoromethane       | ND             | H                 | 50               | 200        | 01/13/2014 17:57     |
| Vinyl Chloride               | 1900           | H                 | 50               | 200        | 01/13/2014 17:57     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 91             | H                 | 70-130           |            | 01/13/2014 17:57     |
| Toluene-d8                   | 93             | H                 | 70-130           |            | 01/13/2014 17:57     |
| 4-BFB                        | 82             | H                 | 70-130           |            | 01/13/2014 17:57     |

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## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/13/14 13:17  
**Date Prepared:** 1/13/14-1/14/14

**WorkOrder:** 1401274  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| ES-1                         | 1401274-003A   | Air               | 01/13/2014 11:07 | GC18       | 86011                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| Bromoform                    | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| Bromomethane                 | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| Carbon Tetrachloride         | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| Chlorobenzene                | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| Chloroethane                 | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| Chloroform                   | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| Chloromethane                | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| Dibromochloromethane         | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 5.0              | 10         | 01/14/2014 11:41     |
| 1,2-Dichlorobenzene          | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| 1,3-Dichlorobenzene          | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| 1,4-Dichlorobenzene          | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| Dichlorodifluoromethane      | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| 1,1-Dichloroethane           | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| 1,1-Dichloroethene           | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| cis-1,2-Dichloroethene       | <b>44</b>      | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| trans-1,2-Dichloroethene     | <b>8.4</b>     | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| 1,2-Dichloropropane          | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| cis-1,3-Dichloropropene      | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| trans-1,3-Dichloropropene    | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| Freon 113                    | ND             | H                 | 5.0              | 10         | 01/14/2014 11:41     |
| Methylene chloride           | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 5.0              | 10         | 01/14/2014 11:41     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| Tetrachloroethene            | <b>120</b>     | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| 1,1,1-Trichloroethane        | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| 1,1,2-Trichloroethane        | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| Trichloroethene              | <b>35</b>      | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| Trichlorofluoromethane       | ND             | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| Vinyl Chloride               | <b>8.1</b>     | H                 | 2.5              | 10         | 01/14/2014 11:41     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 99             | H                 | 70-130           |            | 01/14/2014 11:41     |
| Toluene-d8                   | 93             | H                 | 70-130           |            | 01/14/2014 11:41     |
| 4-BFB                        | 99             | H                 | 70-130           |            | 01/14/2014 11:41     |

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## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/13/14 13:17  
**Date Prepared:** 1/13/14-1/14/14

**WorkOrder:** 1401274  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| ES-2                         | 1401274-004A   | Air               | 01/13/2014 11:10 | GC18       | 86011                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| Bromoform                    | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| Bromomethane                 | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| Carbon Tetrachloride         | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| Chlorobenzene                | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| Chloroethane                 | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| Chloroform                   | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| Chloromethane                | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| Dibromochloromethane         | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 5.0              | 10         | 01/14/2014 11:03     |
| 1,2-Dichlorobenzene          | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| 1,3-Dichlorobenzene          | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| 1,4-Dichlorobenzene          | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| Dichlorodifluoromethane      | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| 1,1-Dichloroethane           | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| 1,1-Dichloroethene           | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| cis-1,2-Dichloroethene       | <b>7.2</b>     | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| trans-1,2-Dichloroethene     | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| 1,2-Dichloropropane          | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| cis-1,3-Dichloropropene      | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| trans-1,3-Dichloropropene    | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| Freon 113                    | ND             | H                 | 5.0              | 10         | 01/14/2014 11:03     |
| Methylene chloride           | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 5.0              | 10         | 01/14/2014 11:03     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| Tetrachloroethene            | <b>53</b>      | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| 1,1,1-Trichloroethane        | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| 1,1,2-Trichloroethane        | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| Trichloroethene              | <b>9.9</b>     | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| Trichlorofluoromethane       | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| Vinyl Chloride               | ND             | H                 | 2.5              | 10         | 01/14/2014 11:03     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 102            | H                 | 70-130           |            | 01/14/2014 11:03     |
| Toluene-d8                   | 93             | H                 | 70-130           |            | 01/14/2014 11:03     |
| 4-BFB                        | 101            | H                 | 70-130           |            | 01/14/2014 11:03     |

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## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/13/14 13:17  
**Date Prepared:** 1/13/14-1/14/14

**WorkOrder:** 1401274  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|----------------|------------------|------------|----------------------|
| ES-3                         | 1401274-005A   | Air            | 01/13/2014 11:14 | GC4        | 86011                |
| <u>Analytes</u>              | <u>Result</u>  |                | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| Bromoform                    | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| Bromomethane                 | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| Carbon Tetrachloride         | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| Chlorobenzene                | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| Chloroethane                 | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| Chloroform                   | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| Chloromethane                | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| Dibromochloromethane         | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| 1,2-Dibromoethane (EDB)      | ND             |                | 0.50             | 1          | 01/13/2014 16:27     |
| 1,2-Dichlorobenzene          | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| 1,3-Dichlorobenzene          | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| 1,4-Dichlorobenzene          | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| Dichlorodifluoromethane      | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| 1,1-Dichloroethane           | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| 1,2-Dichloroethane (1,2-DCA) | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| 1,1-Dichloroethene           | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| cis-1,2-Dichloroethene       | <b>1.5</b>     |                | 0.25             | 1          | 01/13/2014 16:27     |
| trans-1,2-Dichloroethene     | <b>0.25</b>    |                | 0.25             | 1          | 01/13/2014 16:27     |
| 1,2-Dichloropropane          | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| cis-1,3-Dichloropropene      | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| trans-1,3-Dichloropropene    | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| Freon 113                    | ND             |                | 0.50             | 1          | 01/13/2014 16:27     |
| Methylene chloride           | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| 1,1,1,2-Tetrachloroethane    | ND             |                | 0.50             | 1          | 01/13/2014 16:27     |
| 1,1,2,2-Tetrachloroethane    | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| Tetrachloroethene            | <b>12</b>      |                | 0.25             | 1          | 01/13/2014 16:27     |
| 1,1,1-Trichloroethane        | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| 1,1,2-Trichloroethane        | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| Trichloroethene              | <b>1.9</b>     |                | 0.25             | 1          | 01/13/2014 16:27     |
| Trichlorofluoromethane       | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| Vinyl Chloride               | ND             |                | 0.25             | 1          | 01/13/2014 16:27     |
| <u>Surrogates</u>            | <u>REC (%)</u> |                | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 95             |                | 70-130           |            | 01/13/2014 16:27     |
| Toluene-d8                   | 103            |                | 70-130           |            | 01/13/2014 16:27     |
| 4-BFB                        | 91             |                | 70-130           |            | 01/13/2014 16:27     |

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## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/13/14 13:17  
**Date Prepared:** 1/13/14-1/14/14

**WorkOrder:** 1401274  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|----------------|------------------|------------|----------------------|
| ES-4                         | 1401274-006A   | Air            | 01/13/2014 11:17 | GC4        | 86011                |
| <u>Analytes</u>              | <u>Result</u>  |                | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| Bromoform                    | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| Bromomethane                 | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| Carbon Tetrachloride         | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| Chlorobenzene                | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| Chloroethane                 | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| Chloroform                   | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| Chloromethane                | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| Dibromochloromethane         | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| 1,2-Dibromoethane (EDB)      | ND             |                | 0.50             | 1          | 01/13/2014 17:10     |
| 1,2-Dichlorobenzene          | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| 1,3-Dichlorobenzene          | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| 1,4-Dichlorobenzene          | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| Dichlorodifluoromethane      | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| 1,1-Dichloroethane           | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| 1,2-Dichloroethane (1,2-DCA) | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| 1,1-Dichloroethene           | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| cis-1,2-Dichloroethene       | <b>0.33</b>    |                | 0.25             | 1          | 01/13/2014 17:10     |
| trans-1,2-Dichloroethene     | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| 1,2-Dichloropropane          | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| cis-1,3-Dichloropropene      | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| trans-1,3-Dichloropropene    | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| Freon 113                    | ND             |                | 0.50             | 1          | 01/13/2014 17:10     |
| Methylene chloride           | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| 1,1,1,2-Tetrachloroethane    | ND             |                | 0.50             | 1          | 01/13/2014 17:10     |
| 1,1,1,2,2-Tetrachloroethane  | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| Tetrachloroethene            | <b>11</b>      |                | 0.25             | 1          | 01/13/2014 17:10     |
| 1,1,1-Trichloroethane        | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| 1,1,2-Trichloroethane        | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| Trichloroethene              | <b>1.4</b>     |                | 0.25             | 1          | 01/13/2014 17:10     |
| Trichlorofluoromethane       | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| Vinyl Chloride               | ND             |                | 0.25             | 1          | 01/13/2014 17:10     |
| <u>Surrogates</u>            | <u>REC (%)</u> |                | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 96             |                | 70-130           |            | 01/13/2014 17:10     |
| Toluene-d8                   | 106            |                | 70-130           |            | 01/13/2014 17:10     |
| 4-BFB                        | 86             |                | 70-130           |            | 01/13/2014 17:10     |

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# Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/13/14 13:17  
**Date Prepared:** 1/13/14-1/14/14

**WorkOrder:** 1401274  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| ES-5                         | 1401274-007A   | Air               | 01/13/2014 11:21 | GC4        | 86011                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| Bromoform                    | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| Bromomethane                 | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| Carbon Tetrachloride         | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| Chlorobenzene                | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| Chloroethane                 | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| Chloroform                   | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| Chloromethane                | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| Dibromochloromethane         | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 0.50             | 1          | 01/13/2014 17:54     |
| 1,2-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| 1,3-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| 1,4-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| Dichlorodifluoromethane      | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| 1,1-Dichloroethane           | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| 1,1-Dichloroethene           | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| cis-1,2-Dichloroethene       | <b>0.57</b>    | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| trans-1,2-Dichloroethene     | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| 1,2-Dichloropropane          | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| cis-1,3-Dichloropropene      | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| trans-1,3-Dichloropropene    | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| Freon 113                    | ND             | H                 | 0.50             | 1          | 01/13/2014 17:54     |
| Methylene chloride           | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 0.50             | 1          | 01/13/2014 17:54     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| Tetrachloroethene            | <b>5.1</b>     | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| 1,1,1-Trichloroethane        | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| 1,1,2-Trichloroethane        | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| Trichloroethene              | <b>1.5</b>     | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| Trichlorofluoromethane       | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| Vinyl Chloride               | ND             | H                 | 0.25             | 1          | 01/13/2014 17:54     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 97             | H                 | 70-130           |            | 01/13/2014 17:54     |
| Toluene-d8                   | 105            | H                 | 70-130           |            | 01/13/2014 17:54     |
| 4-BFB                        | 89             | H                 | 70-130           |            | 01/13/2014 17:54     |

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## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/13/14 13:17  
**Date Prepared:** 1/13/14-1/14/14

**WorkOrder:** 1401274  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| ES-6                         | 1401274-008A   | Air               | 01/13/2014 11:23 | GC4        | 86011                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| Bromoform                    | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| Bromomethane                 | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| Carbon Tetrachloride         | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| Chlorobenzene                | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| Chloroethane                 | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| Chloroform                   | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| Chloromethane                | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| Dibromochloromethane         | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 0.50             | 1          | 01/13/2014 18:37     |
| 1,2-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| 1,3-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| 1,4-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| Dichlorodifluoromethane      | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| 1,1-Dichloroethane           | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| 1,1-Dichloroethene           | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| cis-1,2-Dichloroethene       | <b>1.6</b>     | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| trans-1,2-Dichloroethene     | <b>0.28</b>    | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| 1,2-Dichloropropane          | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| cis-1,3-Dichloropropene      | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| trans-1,3-Dichloropropene    | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| Freon 113                    | ND             | H                 | 0.50             | 1          | 01/13/2014 18:37     |
| Methylene chloride           | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 0.50             | 1          | 01/13/2014 18:37     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| Tetrachloroethene            | <b>16</b>      | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| 1,1,1-Trichloroethane        | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| 1,1,2-Trichloroethane        | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| Trichloroethene              | <b>2.9</b>     | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| Trichlorofluoromethane       | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| Vinyl Chloride               | ND             | H                 | 0.25             | 1          | 01/13/2014 18:37     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 101            | H                 | 70-130           |            | 01/13/2014 18:37     |
| Toluene-d8                   | 107            | H                 | 70-130           |            | 01/13/2014 18:37     |
| 4-BFB                        | 93             | H                 | 70-130           |            | 01/13/2014 18:37     |

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# Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/13/14 13:17  
**Date Prepared:** 1/13/14-1/14/14

**WorkOrder:** 1401274  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SSP MID                      | 1401274-009A   | Air               | 01/13/2014 11:33 | GC4        | 86011                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| Bromoform                    | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| Bromomethane                 | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| Carbon Tetrachloride         | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| Chlorobenzene                | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| Chloroethane                 | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| Chloroform                   | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| Chloromethane                | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| Dibromochloromethane         | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 0.50             | 1          | 01/13/2014 19:20     |
| 1,2-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| 1,3-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| 1,4-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| Dichlorodifluoromethane      | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| 1,1-Dichloroethane           | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| 1,1-Dichloroethene           | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| cis-1,2-Dichloroethene       | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| trans-1,2-Dichloroethene     | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| 1,2-Dichloropropane          | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| cis-1,3-Dichloropropene      | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| trans-1,3-Dichloropropene    | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| Freon 113                    | ND             | H                 | 0.50             | 1          | 01/13/2014 19:20     |
| Methylene chloride           | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 0.50             | 1          | 01/13/2014 19:20     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| Tetrachloroethene            | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| 1,1,1-Trichloroethane        | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| 1,1,2-Trichloroethane        | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| Trichloroethene              | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| Trichlorofluoromethane       | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| Vinyl Chloride               | ND             | H                 | 0.25             | 1          | 01/13/2014 19:20     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 102            | H                 | 70-130           |            | 01/13/2014 19:20     |
| Toluene-d8                   | 107            | H                 | 70-130           |            | 01/13/2014 19:20     |
| 4-BFB                        | 92             | H                 | 70-130           |            | 01/13/2014 19:20     |

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## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/13/14 13:17  
**Date Prepared:** 1/13/14-1/14/14

**WorkOrder:** 1401274  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SSP EFF                      | 1401274-010A   | Air               | 01/13/2014 11:19 | GC4        | 86011                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| Bromoform                    | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| Bromomethane                 | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| Carbon Tetrachloride         | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| Chlorobenzene                | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| Chloroethane                 | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| Chloroform                   | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| Chloromethane                | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| Dibromochloromethane         | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 0.50             | 1          | 01/13/2014 21:29     |
| 1,2-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| 1,3-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| 1,4-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| Dichlorodifluoromethane      | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| 1,1-Dichloroethane           | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| 1,1-Dichloroethene           | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| cis-1,2-Dichloroethene       | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| trans-1,2-Dichloroethene     | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| 1,2-Dichloropropane          | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| cis-1,3-Dichloropropene      | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| trans-1,3-Dichloropropene    | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| Freon 113                    | ND             | H                 | 0.50             | 1          | 01/13/2014 21:29     |
| Methylene chloride           | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 0.50             | 1          | 01/13/2014 21:29     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| Tetrachloroethene            | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| 1,1,1-Trichloroethane        | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| 1,1,2-Trichloroethane        | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| Trichloroethene              | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| Trichlorofluoromethane       | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| Vinyl Chloride               | ND             | H                 | 0.25             | 1          | 01/13/2014 21:29     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 101            | H                 | 70-130           |            | 01/13/2014 21:29     |
| Toluene-d8                   | 109            | H                 | 70-130           |            | 01/13/2014 21:29     |
| 4-BFB                        | 95             | H                 | 70-130           |            | 01/13/2014 21:29     |

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# Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/13/14 13:17  
**Date Prepared:** 1/13/14-1/14/14

**WorkOrder:** 1401274  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SVE MID                      | 1401274-011A   | Air               | 01/13/2014 11:36 | GC4        | 86011                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| Bromoform                    | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| Bromomethane                 | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| Carbon Tetrachloride         | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| Chlorobenzene                | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| Chloroethane                 | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| Chloroform                   | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| Chloromethane                | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| Dibromochloromethane         | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 0.50             | 1          | 01/13/2014 22:12     |
| 1,2-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| 1,3-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| 1,4-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| Dichlorodifluoromethane      | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| 1,1-Dichloroethane           | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| 1,1-Dichloroethene           | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| cis-1,2-Dichloroethene       | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| trans-1,2-Dichloroethene     | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| 1,2-Dichloropropane          | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| cis-1,3-Dichloropropene      | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| trans-1,3-Dichloropropene    | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| Freon 113                    | ND             | H                 | 0.50             | 1          | 01/13/2014 22:12     |
| Methylene chloride           | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 0.50             | 1          | 01/13/2014 22:12     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| Tetrachloroethene            | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| 1,1,1-Trichloroethane        | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| 1,1,2-Trichloroethane        | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| Trichloroethene              | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| Trichlorofluoromethane       | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| Vinyl Chloride               | ND             | H                 | 0.25             | 1          | 01/13/2014 22:12     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 106            | H                 | 70-130           |            | 01/13/2014 22:12     |
| Toluene-d8                   | 105            | H                 | 70-130           |            | 01/13/2014 22:12     |
| 4-BFB                        | 89             | H                 | 70-130           |            | 01/13/2014 22:12     |

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## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/13/14 13:17  
**Date Prepared:** 1/13/14-1/14/14

**WorkOrder:** 1401274  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SVE-EFF                      | 1401274-012A   | Air               | 01/13/2014 11:45 | GC4        | 86011                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| Bromoform                    | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| Bromomethane                 | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| Carbon Tetrachloride         | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| Chlorobenzene                | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| Chloroethane                 | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| Chloroform                   | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| Chloromethane                | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| Dibromochloromethane         | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 0.50             | 1          | 01/13/2014 22:56     |
| 1,2-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| 1,3-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| 1,4-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| Dichlorodifluoromethane      | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| 1,1-Dichloroethane           | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| 1,1-Dichloroethene           | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| cis-1,2-Dichloroethene       | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| trans-1,2-Dichloroethene     | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| 1,2-Dichloropropane          | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| cis-1,3-Dichloropropene      | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| trans-1,3-Dichloropropene    | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| Freon 113                    | ND             | H                 | 0.50             | 1          | 01/13/2014 22:56     |
| Methylene chloride           | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 0.50             | 1          | 01/13/2014 22:56     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| Tetrachloroethene            | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| 1,1,1-Trichloroethane        | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| 1,1,2-Trichloroethane        | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| Trichloroethene              | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| Trichlorofluoromethane       | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| Vinyl Chloride               | ND             | H                 | 0.25             | 1          | 01/13/2014 22:56     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 103            | H                 | 70-130           |            | 01/13/2014 22:56     |
| Toluene-d8                   | 107            | H                 | 70-130           |            | 01/13/2014 22:56     |
| 4-BFB                        | 89             | H                 | 70-130           |            | 01/13/2014 22:56     |



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 1/14/14  
**Date Analyzed:** 1/13/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1401274  
**BatchID:** 86010  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-86010  
 1401212-006BMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 19.19      | 0.50 | 20      | -          | 95.9     | 70-130     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 18.36      | 0.50 | 20      | -          | 91.8     | 70-130     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 19.12      | 0.50 | 20      | -          | 95.6     | 70-130     |
| 1,1-Dichloroethene            | ND        | 18.04      | 0.50 | 20      | -          | 90.2     | 70-130     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

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# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 1/14/14  
**Date Analyzed:** 1/13/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1401274  
**BatchID:** 86010  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-86010  
 1401212-006BMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 20.39      | 0.50 | 20      | -          | 102      | 70-130     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |

### Surrogate Recovery

|                      |       |       |  |     |    |    |        |
|----------------------|-------|-------|--|-----|----|----|--------|
| Dibromofluoromethane | 22.66 | 41.55 |  | 45  | 91 | 92 | 70-130 |
| Toluene-d8           | 23.09 | 41.27 |  | 45  | 92 | 92 | 70-130 |
| 4-BFB                | 2.013 | 3.798 |  | 4.5 | 81 | 84 | 70-130 |

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## Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 1/14/14  
**Date Analyzed:** 1/13/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1401274  
**BatchID:** 86010  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-86010  
 1401212-006BMS/MSD

### QC Summary Report for SW8260B

| Analyte                      | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD   | RPD Limit |
|------------------------------|-----------|------------|---------|------------|---------|----------|---------------|-------|-----------|
| Chlorobenzene                | 18.29     | 19.19      | 20      | ND         | 91.4    | 96       | 70-130        | 4.82  | 20        |
| 1,2-Dibromoethane (EDB)      | 18.29     | 19.47      | 20      | ND         | 91.4    | 97.3     | 70-130        | 6.25  | 20        |
| 1,2-Dichloroethane (1,2-DCA) | 18.98     | 19.62      | 20      | ND         | 94.9    | 98.1     | 70-130        | 3.32  | 20        |
| 1,1-Dichloroethene           | 16.39     | 16.84      | 20      | ND         | 81.9    | 84.2     | 70-130        | 2.72  | 20        |
| Trichloroethene              | 19.45     | 20.02      | 20      | ND         | 97.3    | 100      | 70-130        | 2.86  | 20        |
| <b>Surrogate Recovery</b>    |           |            |         |            |         |          |               |       |           |
| Dibromofluoromethane         | 40.79     | 41.71      | 45      |            | 91      | 93       | 70-130        | 2.24  | 20        |
| Toluene-d8                   | 39.67     | 39.85      | 45      |            | 88      | 89       | 70-130        | 0.441 | 20        |
| 4-BFB                        | 3.656     | 3.784      | 4.5     |            | 81      | 84       | 70-130        | 3.42  | 20        |



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 1/14/14  
**Date Analyzed:** 1/13/14  
**Instrument:** GC4  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1401274  
**BatchID:** 86011  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-86011

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 21.94      | 0.50 | 20      | -          | 110      | 70-130     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 19.56      | 0.50 | 20      | -          | 97.8     | 70-130     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 19.55      | 0.50 | 20      | -          | 97.8     | 70-130     |
| 1,1-Dichloroethene            | ND        | 19.17      | 0.50 | 20      | -          | 95.8     | 70-130     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 1/14/14  
**Date Analyzed:** 1/13/14  
**Instrument:** GC4  
**Matrix:** Water  
**Project:** #261829; Foothill Square

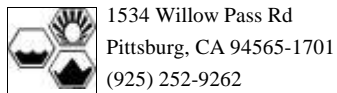
**WorkOrder:** 1401274  
**BatchID:** 86011  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-86011

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 19.66      | 0.50 | 20      | -          | 98.3     | 70-130     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |

### Surrogate Recovery

|                      |       |       |  |     |     |     |        |
|----------------------|-------|-------|--|-----|-----|-----|--------|
| Dibromofluoromethane | 25.23 | 50.44 |  | 45  | 101 | 112 | 70-130 |
| Toluene-d8           | 27.76 | 50.55 |  | 45  | 111 | 112 | 70-130 |
| 4-BFB                | 2.404 | 3.901 |  | 4.5 | 96  | 87  | 70-130 |



# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1401274

ClientCode: AEL

WaterTrax  
  WriteOn  
  EDF  
  Excel  
  EQUIS  
  Email  
  HardCopy  
  ThirdParty  
  J-flag

**Report to:**  
 Jeremy Smith  
 AEI Consultants  
 2500 Camino Diablo, Ste.#200  
 Walnut Creek, CA 94597  
 (925) 283-6000    FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com  
 cc:  
 PO: #51236  
 ProjectNo: #261829; Foothill Square

**Bill to:**  
 Sara Guerin  
 AEI Consultants  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597  
 AccountsPayable@AEIConsultants.co

**Requested TAT: 5 days**

**Date Received: 01/13/2014**

**Date Printed: 01/13/2014**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 1401274-001 | SSD INF   | Air    | 1/13/2014 11:26 | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |
| 1401274-002 | SVE-1     | Air    | 1/13/2014 11:04 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1401274-003 | ES-1      | Air    | 1/13/2014 11:07 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1401274-004 | ES-2      | Air    | 1/13/2014 11:10 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1401274-005 | ES-3      | Air    | 1/13/2014 11:14 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1401274-006 | ES-4      | Air    | 1/13/2014 11:17 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1401274-007 | ES-5      | Air    | 1/13/2014 11:21 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1401274-008 | ES-6      | Air    | 1/13/2014 11:23 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1401274-009 | SSP MID   | Air    | 1/13/2014 11:33 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1401274-010 | SSP EFF   | Air    | 1/13/2014 11:19 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1401274-011 | SVE MID   | Air    | 1/13/2014 11:36 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1401274-012 | SVE-EFF   | Air    | 1/13/2014 11:45 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |           |    |              |   |  |   |  |    |  |
|----|-----------|----|--------------|---|--|---|--|----|--|
| 1  | 8010BMS_A | 2  | PREFD REPORT | 3 |  | 4 |  | 5  |  |
| 6  |           | 7  |              | 8 |  | 9 |  | 10 |  |
| 11 |           | 12 |              |   |  |   |  |    |  |

**Prepared by: Maria Venegas**

**Comments:**    001 & 002 on 1Day Rush all others on STAT.

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS

**QC Level:** LEVEL 2

**Work Order:** 1401274

**Project:** #261829; Foothill Square

**Client Contact:** Jeremy Smith

**Date Received:** 1/13/2014

**Comments:** 001 & 002 on 1Day Rush all others on STAT.

**Contact's Email:** jasmith@aeiconsultants.com

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  Fax   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

| Lab ID       | Client ID | Matrix | Test Name            | Number of Containers | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT    | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|----------------------|----------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1401274-001A | SSD INF   | Air    | SW8260B (HVOCs List) | 1                    | Tedlar                | <input type="checkbox"/> | 1/13/2014 11:26        | 1 day  |                  | <input type="checkbox"/> |        |
| 1401274-002A | SVE-1     | Air    | SW8260B (HVOCs List) | 1                    | Tedlar                | <input type="checkbox"/> | 1/13/2014 11:04        | 1 day  |                  | <input type="checkbox"/> |        |
| 1401274-003A | ES-1      | Air    | SW8260B (HVOCs List) | 1                    | Tedlar                | <input type="checkbox"/> | 1/13/2014 11:07        | 5 days |                  | <input type="checkbox"/> |        |
| 1401274-004A | ES-2      | Air    | SW8260B (HVOCs List) | 1                    | Tedlar                | <input type="checkbox"/> | 1/13/2014 11:10        | 5 days |                  | <input type="checkbox"/> |        |
| 1401274-005A | ES-3      | Air    | SW8260B (HVOCs List) | 1                    | Tedlar                | <input type="checkbox"/> | 1/13/2014 11:14        | 5 days |                  | <input type="checkbox"/> |        |
| 1401274-006A | ES-4      | Air    | SW8260B (HVOCs List) | 1                    | Tedlar                | <input type="checkbox"/> | 1/13/2014 11:17        | 5 days |                  | <input type="checkbox"/> |        |
| 1401274-007A | ES-5      | Air    | SW8260B (HVOCs List) | 1                    | Tedlar                | <input type="checkbox"/> | 1/13/2014 11:21        | 5 days |                  | <input type="checkbox"/> |        |
| 1401274-008A | ES-6      | Air    | SW8260B (HVOCs List) | 1                    | Tedlar                | <input type="checkbox"/> | 1/13/2014 11:23        | 5 days |                  | <input type="checkbox"/> |        |
| 1401274-009A | SSP MID   | Air    | SW8260B (HVOCs List) | 1                    | Tedlar                | <input type="checkbox"/> | 1/13/2014 11:33        | 5 days |                  | <input type="checkbox"/> |        |
| 1401274-010A | SSP EFF   | Air    | SW8260B (HVOCs List) | 1                    | Tedlar                | <input type="checkbox"/> | 1/13/2014 11:19        | 5 days |                  | <input type="checkbox"/> |        |
| 1401274-011A | SVE MID   | Air    | SW8260B (HVOCs List) | 1                    | Tedlar                | <input type="checkbox"/> | 1/13/2014 11:36        | 5 days |                  | <input type="checkbox"/> |        |
| 1401274-012A | SVE-EFF   | Air    | SW8260B (HVOCs List) | 1                    | Tedlar                | <input type="checkbox"/> | 1/13/2014 11:45        | 5 days |                  | <input type="checkbox"/> |        |

**\* NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

**Bottle Legend:**

Tedlar = Tedlar Air Bag

1401274

**RUSH**

**McCAMPBELL ANALYTICAL INC.**

1534 Willow Pass Road  
Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

**CHAIN OF CUSTODY RECORD**

**TURN AROUND TIME**

RUSH  
 24 HR  
 48 HR  
 72 HR  
 5 DAY

EDF Required?  Yes  No

**Report To:** Jeremy Smith      **Bill To:** same      **P.O. #** 51236  
**Company:** AEI Consultants  
 2500 Camino Diablo  
 Walnut Creek, CA 94597      **E-Mail:** jasmith@aeiconsultants.com  
**Tele:** (925) 746-6000      **Fax:** (925) 746-6099  
**Project #:** 261829      **Project Name:** Foothill Square  
**Project Location:** 10700 MacArthur Blvd. Oakland, CA  
**Sampler Signature:** *[Signature]*

**Analysis Request**

**Other**

**Comments**

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |  |  |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |  |  |
| SSD INF                         |          | 1-13-14  | 1126 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |
| SVE-1                           |          |          | 1104 |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |
| <del>ES-1</del>                 |          |          | 1107 |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |
| ES-2                            |          |          | 1110 |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |
| ES-3                            |          |          | 1114 |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |
| ES-4                            |          |          | 1117 |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |
| ES-5                            |          |          | 1121 |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |
| ES-6                            |          |          | 1123 |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |
| SSP MID                         |          |          | 1133 |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |
| SSP EFF                         |          |          | 1119 |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |
| SVE MID                         |          |          | 1136 |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |
| SVE-EFF                         |          |          | 1145 |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |

|                                             |   |
|---------------------------------------------|---|
| BTEX & TPH as Gas (602/8020 + 8015)/MTBE    |   |
| TPH as Diesel (8015) w/silica Gel Cleanup   |   |
| Total Petroleum Oil & Grease (5520 E&F/B&F) |   |
| Total Petroleum Hydrocarbons (418.1)        |   |
| HVOCs EPA 8260                              | X |
| BTEX ONLY (EPA 602 / 8020)                  |   |
| EPA 608 / 8080                              |   |
| EPA 608 / 8080 PCB's ONLY                   |   |
| EPA 624 / 8260                              |   |
| EPA 625 / 8270                              |   |
| PAH's / PNA's by EPA 625 / 8270 / 8310      |   |
| CAM-17 Metals                               |   |
| LUFT 5 Metals                               |   |
| Lead (7240/7421/239.2/6010)                 |   |
| RCI                                         |   |

XX 24 HR Rush  
 Standard TAT

|                                     |               |            |                                 |
|-------------------------------------|---------------|------------|---------------------------------|
| Relinquished By: <i>[Signature]</i> | Date: 1-13-14 | Time: 1259 | Received By: <i>[Signature]</i> |
| Relinquished By:                    | Date:         | Time:      | Received By:                    |
| Relinquished By:                    | Date:         | Time:      | Received By:                    |

ICE/t° *[Signature]*  
 GOOD CONDITION \_\_\_\_\_  
 HEAD SPACE ABSENT \_\_\_\_\_  
 DECHLORINATED IN LAB \_\_\_\_\_

PRESERVATION \_\_\_\_\_  
 APPROPRIATE CONTAINERS \_\_\_\_\_  
 PERSERVED IN LAB \_\_\_\_\_

VOAS \_\_\_\_\_  
 O&G \_\_\_\_\_  
 METALS \_\_\_\_\_  
 OTHER \_\_\_\_\_



### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **1/13/2014 1:17:04 PM**  
 Project Name: **#261829; Foothill Square** Login Reviewed by: **Maria Venegas**  
 WorkOrder N°: **1401274** Matrix: Air Carrier: Client Drop-In

**Chain of Custody (COC) Information**

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
 Container/Temp Blank temperature Cooler Temp: NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 Metal - pH acceptable upon receipt (pH<2)? Yes  No  NA   
 Samples Received on Ice? Yes  No

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1401362

**Report Created for:** AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597

**Project Contact:** Jeremy Smith  
**Project P.O.:** #51311  
**Project Name:** #261829; Foothill Square

**Project Received:** 01/15/2014

Analytical Report reviewed & approved for release on 01/16/2014 by:

Question about  
your data?

[Click here to email  
McC Campbell](#)

Angela Rydelius,  
Laboratory Manager

***The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.***







## Glossary of Terms & Qualifier Definitions

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**WorkOrder:** 1401362

| <b><u>Glossary</u></b><br><b><u>Abbreviation</u></b> | <b><u>Description</u></b>                                                                                                                                                                           |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 95% Interval                                         | 95% Confident Interval                                                                                                                                                                              |
| DF                                                   | Dilution Factor                                                                                                                                                                                     |
| DUP                                                  | Duplicate                                                                                                                                                                                           |
| EDL                                                  | Estimated Detection Limit                                                                                                                                                                           |
| ITEF                                                 | International Toxicity Equivalence Factor                                                                                                                                                           |
| LCS                                                  | Laboratory Control Sample                                                                                                                                                                           |
| MB                                                   | Method Blank                                                                                                                                                                                        |
| MB % Rec                                             | % Recovery of Surrogate in Method Blank, if applicable                                                                                                                                              |
| MDL                                                  | Method Detection Limit                                                                                                                                                                              |
| MS                                                   | Matrix Spike                                                                                                                                                                                        |
| MSD                                                  | Matrix Spike Duplicate                                                                                                                                                                              |
| ND                                                   | Not detected at or above the indicated MDL or RL                                                                                                                                                    |
| NR                                                   | Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content. |
| RD                                                   | Relative Difference                                                                                                                                                                                 |
| RL                                                   | Reporting Limit                                                                                                                                                                                     |
| RPD                                                  | Relative Percent Deviation                                                                                                                                                                          |
| RRT                                                  | Relative Retention Time                                                                                                                                                                             |
| SPK Val                                              | Spike Value                                                                                                                                                                                         |
| SPKRef Val                                           | Spike Reference Value                                                                                                                                                                               |
| TEQ                                                  | Toxicity Equivalence                                                                                                                                                                                |



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/15/14 13:00  
**Date Prepared:** 1/15/14

**WorkOrder:** 1401362  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|----------------|------------------|------------|----------------------|
| SSD INF                      | 1401362-001A   | Air            | 01/15/2014 12:15 | GC28       | 86053                |
| <u>Analytes</u>              | <u>Result</u>  |                | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| Bromoform                    | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| Bromomethane                 | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| Carbon Tetrachloride         | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| Chlorobenzene                | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| Chloroethane                 | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| Chloroform                   | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| Chloromethane                | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| Dibromochloromethane         | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| 1,2-Dibromoethane (EDB)      | ND             |                | 500              | 1          | 01/15/2014 13:37     |
| 1,2-Dichlorobenzene          | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| 1,3-Dichlorobenzene          | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| 1,4-Dichlorobenzene          | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| Dichlorodifluoromethane      | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| 1,1-Dichloroethane           | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| 1,2-Dichloroethane (1,2-DCA) | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| 1,1-Dichloroethene           | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| cis-1,2-Dichloroethene       | <b>1500</b>    |                | 250              | 1          | 01/15/2014 13:37     |
| trans-1,2-Dichloroethene     | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| 1,2-Dichloropropane          | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| cis-1,3-Dichloropropene      | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| trans-1,3-Dichloropropene    | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| Freon 113                    | ND             |                | 500              | 1          | 01/15/2014 13:37     |
| Methylene chloride           | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| 1,1,1,2-Tetrachloroethane    | ND             |                | 500              | 1          | 01/15/2014 13:37     |
| 1,1,2,2-Tetrachloroethane    | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| Tetrachloroethene            | <b>17,000</b>  |                | 250              | 1          | 01/15/2014 13:37     |
| 1,1,1-Trichloroethane        | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| 1,1,2-Trichloroethane        | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| Trichloroethene              | <b>2500</b>    |                | 250              | 1          | 01/15/2014 13:37     |
| Trichlorofluoromethane       | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| Vinyl Chloride               | ND             |                | 250              | 1          | 01/15/2014 13:37     |
| <u>Surrogates</u>            | <u>REC (%)</u> |                | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 103            |                | 70-130           |            | 01/15/2014 13:37     |
| Toluene-d8                   | 107            |                | 70-130           |            | 01/15/2014 13:37     |
| 4-BFB                        | 104            |                | 70-130           |            | 01/15/2014 13:37     |

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/15/14 13:00  
**Date Prepared:** 1/15/14

**WorkOrder:** 1401362  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|----------------|------------------|------------|----------------------|
| SVE-1 INF                    | 1401362-002A   | Air            | 01/15/2014 12:10 | GC28       | 86053                |
| <u>Analytes</u>              | <u>Result</u>  |                | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| Bromoform                    | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| Bromomethane                 | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| Carbon Tetrachloride         | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| Chlorobenzene                | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| Chloroethane                 | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| Chloroform                   | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| Chloromethane                | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| Dibromochloromethane         | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| 1,2-Dibromoethane (EDB)      | ND             |                | 50,000           | 100        | 01/15/2014 15:33     |
| 1,2-Dichlorobenzene          | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| 1,3-Dichlorobenzene          | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| 1,4-Dichlorobenzene          | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| Dichlorodifluoromethane      | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| 1,1-Dichloroethane           | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| 1,2-Dichloroethane (1,2-DCA) | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| 1,1-Dichloroethene           | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| cis-1,2-Dichloroethene       | <b>760,000</b> |                | 25,000           | 100        | 01/15/2014 15:33     |
| trans-1,2-Dichloroethene     | <b>210,000</b> |                | 25,000           | 100        | 01/15/2014 15:33     |
| 1,2-Dichloropropane          | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| cis-1,3-Dichloropropene      | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| trans-1,3-Dichloropropene    | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| Freon 113                    | ND             |                | 50,000           | 100        | 01/15/2014 15:33     |
| Methylene chloride           | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| 1,1,1,2-Tetrachloroethane    | ND             |                | 50,000           | 100        | 01/15/2014 15:33     |
| 1,1,1,2,2-Tetrachloroethane  | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| Tetrachloroethene            | <b>530,000</b> |                | 25,000           | 100        | 01/15/2014 15:33     |
| 1,1,1-Trichloroethane        | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| 1,1,2-Trichloroethane        | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| Trichloroethene              | <b>290,000</b> |                | 25,000           | 100        | 01/15/2014 15:33     |
| Trichlorofluoromethane       | ND             |                | 25,000           | 100        | 01/15/2014 15:33     |
| Vinyl Chloride               | <b>810,000</b> |                | 25,000           | 100        | 01/15/2014 15:33     |
| <u>Surrogates</u>            | <u>REC (%)</u> |                | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 103            |                | 70-130           |            | 01/15/2014 15:33     |
| Toluene-d8                   | 109            |                | 70-130           |            | 01/15/2014 15:33     |
| 4-BFB                        | 105            |                | 70-130           |            | 01/15/2014 15:33     |



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/15/14 13:00  
**Date Prepared:** 1/15/14

**WorkOrder:** 1401362  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|----------------|------------------|------------|----------------------|
| SSD INF                      | 1401362-001A   | Air            | 01/15/2014 12:15 | GC28       | 86053                |
| <u>Analytes</u>              | <u>Result</u>  |                | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| Bromoform                    | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| Bromomethane                 | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| Carbon Tetrachloride         | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| Chlorobenzene                | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| Chloroethane                 | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| Chloroform                   | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| Chloromethane                | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| Dibromochloromethane         | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| 1,2-Dibromoethane (EDB)      | ND             |                | 0.50             | 1          | 01/15/2014 13:37     |
| 1,2-Dichlorobenzene          | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| 1,3-Dichlorobenzene          | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| 1,4-Dichlorobenzene          | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| Dichlorodifluoromethane      | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| 1,1-Dichloroethane           | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| 1,2-Dichloroethane (1,2-DCA) | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| 1,1-Dichloroethene           | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| cis-1,2-Dichloroethene       | 1.5            |                | 0.25             | 1          | 01/15/2014 13:37     |
| trans-1,2-Dichloroethene     | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| 1,2-Dichloropropane          | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| cis-1,3-Dichloropropene      | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| trans-1,3-Dichloropropene    | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| Freon 113                    | ND             |                | 0.50             | 1          | 01/15/2014 13:37     |
| Methylene chloride           | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| 1,1,1,2-Tetrachloroethane    | ND             |                | 0.50             | 1          | 01/15/2014 13:37     |
| 1,1,1,2,2-Tetrachloroethane  | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| Tetrachloroethene            | 17             |                | 0.25             | 1          | 01/15/2014 13:37     |
| 1,1,1-Trichloroethane        | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| 1,1,2-Trichloroethane        | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| Trichloroethene              | 2.5            |                | 0.25             | 1          | 01/15/2014 13:37     |
| Trichlorofluoromethane       | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| Vinyl Chloride               | ND             |                | 0.25             | 1          | 01/15/2014 13:37     |
| <u>Surrogates</u>            | <u>REC (%)</u> |                | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 103            |                | 70-130           |            | 01/15/2014 13:37     |
| Toluene-d8                   | 107            |                | 70-130           |            | 01/15/2014 13:37     |
| 4-BFB                        | 104            |                | 70-130           |            | 01/15/2014 13:37     |

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/15/14 13:00  
**Date Prepared:** 1/15/14

**WorkOrder:** 1401362  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|----------------|------------------|------------|----------------------|
| SVE-1 INF                    | 1401362-002A   | Air            | 01/15/2014 12:10 | GC28       | 86053                |
| <u>Analytes</u>              | <u>Result</u>  |                | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| Bromoform                    | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| Bromomethane                 | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| Carbon Tetrachloride         | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| Chlorobenzene                | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| Chloroethane                 | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| Chloroform                   | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| Chloromethane                | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| Dibromochloromethane         | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| 1,2-Dibromoethane (EDB)      | ND             |                | 50               | 100        | 01/15/2014 15:33     |
| 1,2-Dichlorobenzene          | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| 1,3-Dichlorobenzene          | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| 1,4-Dichlorobenzene          | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| Dichlorodifluoromethane      | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| 1,1-Dichloroethane           | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| 1,2-Dichloroethane (1,2-DCA) | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| 1,1-Dichloroethene           | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| cis-1,2-Dichloroethene       | <b>760</b>     |                | 25               | 100        | 01/15/2014 15:33     |
| trans-1,2-Dichloroethene     | <b>210</b>     |                | 25               | 100        | 01/15/2014 15:33     |
| 1,2-Dichloropropane          | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| cis-1,3-Dichloropropene      | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| trans-1,3-Dichloropropene    | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| Freon 113                    | ND             |                | 50               | 100        | 01/15/2014 15:33     |
| Methylene chloride           | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| 1,1,1,2-Tetrachloroethane    | ND             |                | 50               | 100        | 01/15/2014 15:33     |
| 1,1,1,2,2-Tetrachloroethane  | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| Tetrachloroethene            | <b>530</b>     |                | 25               | 100        | 01/15/2014 15:33     |
| 1,1,1-Trichloroethane        | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| 1,1,2-Trichloroethane        | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| Trichloroethene              | <b>290</b>     |                | 25               | 100        | 01/15/2014 15:33     |
| Trichlorofluoromethane       | ND             |                | 25               | 100        | 01/15/2014 15:33     |
| Vinyl Chloride               | <b>810</b>     |                | 25               | 100        | 01/15/2014 15:33     |
| <u>Surrogates</u>            | <u>REC (%)</u> |                | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 103            |                | 70-130           |            | 01/15/2014 15:33     |
| Toluene-d8                   | 109            |                | 70-130           |            | 01/15/2014 15:33     |
| 4-BFB                        | 105            |                | 70-130           |            | 01/15/2014 15:33     |



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 1/15/14  
**Date Analyzed:** 1/15/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1401362  
**BatchID:** 86053  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-86053  
 1401294-001AMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 19.39      | 0.50 | 20      | -          | 96.9     | 70-130     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 18.64      | 0.50 | 20      | -          | 93.2     | 70-130     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 18.84      | 0.50 | 20      | -          | 94.2     | 70-130     |
| 1,1-Dichloroethene            | ND        | 18.94      | 0.50 | 20      | -          | 94.7     | 70-130     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 1/15/14  
**Date Analyzed:** 1/15/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1401362  
**BatchID:** 86053  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-86053  
 1401294-001AMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 19.63      | 0.50 | 20      | -          | 98.2     | 70-130     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |

### Surrogate Recovery

|                      |       |       |  |     |     |     |        |
|----------------------|-------|-------|--|-----|-----|-----|--------|
| Dibromofluoromethane | 26.43 | 45.46 |  | 45  | 106 | 101 | 70-130 |
| Toluene-d8           | 26.98 | 46.87 |  | 45  | 108 | 104 | 70-130 |
| 4-BFB                | 2.701 | 4.415 |  | 4.5 | 108 | 98  | 70-130 |

(Cont.)



## Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 1/15/14  
**Date Analyzed:** 1/15/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1401362  
**BatchID:** 86053  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-86053  
 1401294-001AMS/MSD

### QC Summary Report for SW8260B

| Analyte                      | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD   | RPD Limit |
|------------------------------|-----------|------------|---------|------------|---------|----------|---------------|-------|-----------|
| Chlorobenzene                | 19.44     | 18.98      | 20      | ND         | 97.2    | 94.9     | 70-130        | 2.39  | 20        |
| 1,2-Dibromoethane (EDB)      | 20.83     | 20.69      | 20      | ND         | 104     | 103      | 70-130        | 0.643 | 20        |
| 1,2-Dichloroethane (1,2-DCA) | 19.73     | 19.85      | 20      | ND         | 98.7    | 99.3     | 70-130        | 0.616 | 20        |
| 1,1-Dichloroethene           | 19.72     | 19.37      | 20      | ND         | 98.6    | 96.8     | 70-130        | 1.79  | 20        |
| Trichloroethene              | 19.49     | 19.46      | 20      | ND         | 97.4    | 97.3     | 70-130        | 0.122 | 20        |
| <b>Surrogate Recovery</b>    |           |            |         |            |         |          |               |       |           |
| Dibromofluoromethane         | 46.08     | 46.1       | 45      |            | 102     | 102      | 70-130        | 0     | 20        |
| Toluene-d8                   | 46.61     | 46.58      | 45      |            | 104     | 104      | 70-130        | 0     | 20        |
| 4-BFB                        | 4.308     | 4.493      | 4.5     |            | 96      | 100      | 70-130        | 4.21  | 20        |





1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1401362

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQuIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**

Jeremy Smith  
AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597  
(925) 283-6000    FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com  
cc:  
PO:  
ProjectNo: #261829; Foothill Square

**Bill to:**

Sara Guerin  
AEI Consultants  
2500 Camino Diablo, Ste. #200  
Walnut Creek, CA 94597  
AccountsPayable@AEIConsultants.co

**Requested TAT:**

**1 day**

**Date Received: 01/15/2014**

**Date Printed: 01/15/2014**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 1401362-001 | SSD INF   | Air    | 1/15/2014 12:15 | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |
| 1401362-002 | SVE-1 INF | Air    | 1/15/2014 12:10 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |           |    |              |   |  |   |  |    |  |
|----|-----------|----|--------------|---|--|---|--|----|--|
| 1  | 8010BMS_A | 2  | PREFD REPORT | 3 |  | 4 |  | 5  |  |
| 6  |           | 7  |              | 8 |  | 9 |  | 10 |  |
| 11 |           | 12 |              |   |  |   |  |    |  |

**Prepared by: Maria Venegas**

**Comments:**    24hr Rush

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS  
**Project:** #261829; Foothill Square  
**Comments:** 24hr Rush

**QC Level:** LEVEL 2  
**Client Contact:** Jeremy Smith  
**Contact's Email:** jasmith@aeiconsultants.com

**Work Order:** 1401362  
**Date Received:** 1/15/2014

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  Fax   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

| Lab ID       | Client ID | Matrix | Test Name            | Number of Containers | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT   | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|----------------------|----------------------|-----------------------|--------------------------|------------------------|-------|------------------|--------------------------|--------|
| 1401362-001A | SSD INF   | Air    | SW8260B (HVOCs List) | 1                    | Tedlar                | <input type="checkbox"/> | 1/15/2014 12:15        | 1 day |                  | <input type="checkbox"/> |        |
| 1401362-002A | SVE-1 INF | Air    | SW8260B (HVOCs List) | 1                    | Tedlar                | <input type="checkbox"/> | 1/15/2014 12:10        | 1 day |                  | <input type="checkbox"/> |        |

**\* NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

**Bottle Legend:**

Tedlar = Tedlar Air Bag

**McCAMPBELL ANALYTICAL INC.**

1534 Willow Pass Road  
Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

**CHAIN OF CUSTODY RECORD**

TURN AROUND TIME

RUSH 24 HR  
 48 HR  
 72 HR  
 5 DAY

**RUSH**

EDF Required?  Yes  No

Report To: Jeremy Smith      Bill To: same      P.O. #51311  
 Company: AEI Consultants  
 2500 Camino Diablo  
 Walnut Creek, CA 94597      E-Mail: jasmith@aeiconsultants.com  
 Tele: (925) 746-6000      Fax: (925) 746-6099  
 Project #: 261829      Project Name: Foothill Square  
 Project Location: 10700 MacArthur Blvd, Oakland, CA  
 Sampler Signature: *[Signature]*

| Analysis Request                            |  |  |  |  |  |  |  |  |  | Other | Comments |  |
|---------------------------------------------|--|--|--|--|--|--|--|--|--|-------|----------|--|
| BTEX & TPH as Gas (602/8020 + 8015)/MTBE    |  |  |  |  |  |  |  |  |  |       |          |  |
| TPH as Diesel (8015) w/silica Gel Cleanup   |  |  |  |  |  |  |  |  |  |       |          |  |
| Total Petroleum Oil & Grease (5520 E&F/B&F) |  |  |  |  |  |  |  |  |  |       |          |  |
| Total Petroleum Hydrocarbons (418.1)        |  |  |  |  |  |  |  |  |  |       |          |  |
| HVOCs EPA 8260                              |  |  |  |  |  |  |  |  |  |       |          |  |
| BTEX ONLY (EPA 602 / 8020)                  |  |  |  |  |  |  |  |  |  |       |          |  |
| EPA 608 / 8080                              |  |  |  |  |  |  |  |  |  |       |          |  |
| EPA 608 / 8080 PCB's ONLY                   |  |  |  |  |  |  |  |  |  |       |          |  |
| EPA 624 / 8260                              |  |  |  |  |  |  |  |  |  |       |          |  |
| EPA 625 / 8270                              |  |  |  |  |  |  |  |  |  |       |          |  |
| PAH's / PNA's by EPA 625 / 8270 / 8310      |  |  |  |  |  |  |  |  |  |       |          |  |
| CAM-17 Metals                               |  |  |  |  |  |  |  |  |  |       |          |  |
| LUFT 5 Metals                               |  |  |  |  |  |  |  |  |  |       |          |  |
| Lead (7240/7421/239.2/6010)                 |  |  |  |  |  |  |  |  |  |       |          |  |
| RCI                                         |  |  |  |  |  |  |  |  |  |       |          |  |

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |  |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |  |
| SSD INF                         |          | 1-15-14  | 1215 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |
| SVE-1 INF                       |          | 1-15-14  | 1210 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |

Relinquished By: *[Signature]*      Date: 1-15-14      Time: 1257      Received By: *[Signature]*  
 Relinquished By: \_\_\_\_\_      Date: \_\_\_\_\_      Time: \_\_\_\_\_      Received By: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_      Date: \_\_\_\_\_      Time: \_\_\_\_\_      Received By: \_\_\_\_\_

ICE/t° N/A      VOAS \_\_\_\_\_      O&G \_\_\_\_\_      METALS \_\_\_\_\_      OTHER \_\_\_\_\_  
 GOOD CONDITION \_\_\_\_\_      PRESERVATION APPROPRIATE \_\_\_\_\_  
 HEAD SPACE ABSENT \_\_\_\_\_      CONTAINERS \_\_\_\_\_  
 DECHLORINATED IN LAB \_\_\_\_\_      PERSERVED IN LAB \_\_\_\_\_



### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **1/15/2014 1:00:43 PM**  
 Project Name: **#261829; Foothill Square** Login Reviewed by: **Maria Venegas**  
 WorkOrder N°: **1401362** Matrix: Air Carrier: Client Drop-In

**Chain of Custody (COC) Information**

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
 Container/Temp Blank temperature Cooler Temp: NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 Metal - pH acceptable upon receipt (pH<2)? Yes  No  NA   
 Samples Received on Ice? Yes  No

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1403100

**Report Created for:** AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597

**Project Contact:** Jeremy Smith  
**Project P.O.:** #53268  
**Project Name:** #261829; Foothill Square

**Project Received:** 03/05/2014

Analytical Report reviewed & approved for release on 03/06/2014 by:

Question about  
your data?

[Click here to email  
McC Campbell](#)

Angela Rydelius,  
Laboratory Manager

***The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.***





## Glossary of Terms & Qualifier Definitions

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**WorkOrder:** 1403100

### Glossary Abbreviation

|              |                                                                                                                                                                                                     |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 95% Interval | 95% Confident Interval                                                                                                                                                                              |
| DF           | Dilution Factor                                                                                                                                                                                     |
| DUP          | Duplicate                                                                                                                                                                                           |
| EDL          | Estimated Detection Limit                                                                                                                                                                           |
| ITEF         | International Toxicity Equivalence Factor                                                                                                                                                           |
| LCS          | Laboratory Control Sample                                                                                                                                                                           |
| MB           | Method Blank                                                                                                                                                                                        |
| MB % Rec     | % Recovery of Surrogate in Method Blank, if applicable                                                                                                                                              |
| MDL          | Method Detection Limit                                                                                                                                                                              |
| MS           | Matrix Spike                                                                                                                                                                                        |
| MSD          | Matrix Spike Duplicate                                                                                                                                                                              |
| ND           | Not detected at or above the indicated MDL or RL                                                                                                                                                    |
| NR           | Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content. |
| RD           | Relative Difference                                                                                                                                                                                 |
| RL           | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)                                                                                                            |
| RPD          | Relative Percent Deviation                                                                                                                                                                          |
| RRT          | Relative Retention Time                                                                                                                                                                             |
| SPK Val      | Spike Value                                                                                                                                                                                         |
| SPKRef Val   | Spike Reference Value                                                                                                                                                                               |
| TEQ          | Toxicity Equivalence                                                                                                                                                                                |

### Analytical Qualifier

H samples were analyzed out of holding time



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 3/5/14 9:53  
**Date Prepared:** 3/5/14

**WorkOrder:** 1403100  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SSD INF                      | 1403100-001A   | Air               | 03/05/2014 08:45 | GC16       | 87828                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| Bromoform                    | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| Bromomethane                 | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| Carbon Tetrachloride         | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| Chlorobenzene                | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| Chloroethane                 | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| Chloroform                   | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| Chloromethane                | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| Dibromochloromethane         | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 500              | 1          | 03/05/2014 15:11     |
| 1,2-Dichlorobenzene          | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| 1,3-Dichlorobenzene          | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| 1,4-Dichlorobenzene          | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| Dichlorodifluoromethane      | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| 1,1-Dichloroethane           | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| 1,1-Dichloroethene           | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| cis-1,2-Dichloroethene       | <b>1300</b>    | H                 | 250              | 1          | 03/05/2014 15:11     |
| trans-1,2-Dichloroethene     | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| 1,2-Dichloropropane          | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| cis-1,3-Dichloropropene      | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| trans-1,3-Dichloropropene    | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| Freon 113                    | ND             | H                 | 500              | 1          | 03/05/2014 15:11     |
| Methylene chloride           | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 500              | 1          | 03/05/2014 15:11     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| Tetrachloroethene            | <b>12,000</b>  | H                 | 250              | 1          | 03/05/2014 15:11     |
| 1,1,1-Trichloroethane        | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| 1,1,2-Trichloroethane        | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| Trichloroethene              | <b>2200</b>    | H                 | 250              | 1          | 03/05/2014 15:11     |
| Trichlorofluoromethane       | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| Vinyl Chloride               | ND             | H                 | 250              | 1          | 03/05/2014 15:11     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 112            | H                 | 70-130           |            | 03/05/2014 15:11     |
| Toluene-d8                   | 93             | H                 | 70-130           |            | 03/05/2014 15:11     |
| 4-BFB                        | 96             | H                 | 70-130           |            | 03/05/2014 15:11     |

(Cont.)



# Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 3/5/14 9:53  
**Date Prepared:** 3/5/14

**WorkOrder:** 1403100  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SVE-1 INF                    | 1403100-002A   | Air               | 03/05/2014 09:00 | GC18       | 87828                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| Bromoform                    | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| Bromomethane                 | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| Carbon Tetrachloride         | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| Chlorobenzene                | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| Chloroethane                 | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| Chloroform                   | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| Chloromethane                | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| Dibromochloromethane         | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 20,000           | 40         | 03/05/2014 21:20     |
| 1,2-Dichlorobenzene          | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| 1,3-Dichlorobenzene          | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| 1,4-Dichlorobenzene          | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| Dichlorodifluoromethane      | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| 1,1-Dichloroethane           | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| 1,1-Dichloroethene           | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| cis-1,2-Dichloroethene       | <b>480,000</b> | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| trans-1,2-Dichloroethene     | <b>130,000</b> | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| 1,2-Dichloropropane          | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| cis-1,3-Dichloropropene      | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| trans-1,3-Dichloropropene    | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| Freon 113                    | ND             | H                 | 20,000           | 40         | 03/05/2014 21:20     |
| Methylene chloride           | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 20,000           | 40         | 03/05/2014 21:20     |
| 1,1,1,2,2-Tetrachloroethane  | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| Tetrachloroethene            | <b>690,000</b> | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| 1,1,1-Trichloroethane        | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| 1,1,2-Trichloroethane        | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| Trichloroethene              | <b>380,000</b> | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| Trichlorofluoromethane       | ND             | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| Vinyl Chloride               | <b>430,000</b> | H                 | 10,000           | 40         | 03/05/2014 21:20     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 92             | H                 | 70-130           |            | 03/05/2014 21:20     |
| Toluene-d8                   | 114            | H                 | 70-130           |            | 03/05/2014 21:20     |
| 4-BFB                        | 86             | H                 | 70-130           |            | 03/05/2014 21:20     |





## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 3/5/14 9:53  
**Date Prepared:** 3/5/14

**WorkOrder:** 1403100  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SSD INF                      | 1403100-001A   | Air               | 03/05/2014 08:45 | GC16       | 87828                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| Bromoform                    | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| Bromomethane                 | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| Carbon Tetrachloride         | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| Chlorobenzene                | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| Chloroethane                 | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| Chloroform                   | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| Chloromethane                | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| Dibromochloromethane         | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 0.50             | 1          | 03/05/2014 15:11     |
| 1,2-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| 1,3-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| 1,4-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| Dichlorodifluoromethane      | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| 1,1-Dichloroethane           | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| 1,1-Dichloroethene           | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| cis-1,2-Dichloroethene       | <b>1.3</b>     | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| trans-1,2-Dichloroethene     | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| 1,2-Dichloropropane          | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| cis-1,3-Dichloropropene      | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| trans-1,3-Dichloropropene    | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| Freon 113                    | ND             | H                 | 0.50             | 1          | 03/05/2014 15:11     |
| Methylene chloride           | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 0.50             | 1          | 03/05/2014 15:11     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| Tetrachloroethene            | <b>1.2</b>     | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| 1,1,1-Trichloroethane        | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| 1,1,2-Trichloroethane        | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| Trichloroethene              | <b>2.2</b>     | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| Trichlorofluoromethane       | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| Vinyl Chloride               | ND             | H                 | 0.25             | 1          | 03/05/2014 15:11     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 112            | H                 | 70-130           |            | 03/05/2014 15:11     |
| Toluene-d8                   | 93             | H                 | 70-130           |            | 03/05/2014 15:11     |
| 4-BFB                        | 96             | H                 | 70-130           |            | 03/05/2014 15:11     |

(Cont.)



# Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 3/5/14 9:53  
**Date Prepared:** 3/5/14

**WorkOrder:** 1403100  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SVE-1 INF                    | 1403100-002A   | Air               | 03/05/2014 09:00 | GC18       | 87828                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| Bromoform                    | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| Bromomethane                 | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| Carbon Tetrachloride         | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| Chlorobenzene                | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| Chloroethane                 | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| Chloroform                   | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| Chloromethane                | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| Dibromochloromethane         | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 20               | 40         | 03/05/2014 21:20     |
| 1,2-Dichlorobenzene          | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| 1,3-Dichlorobenzene          | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| 1,4-Dichlorobenzene          | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| Dichlorodifluoromethane      | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| 1,1-Dichloroethane           | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| 1,1-Dichloroethene           | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| cis-1,2-Dichloroethene       | <b>480</b>     | H                 | 10               | 40         | 03/05/2014 21:20     |
| trans-1,2-Dichloroethene     | <b>130</b>     | H                 | 10               | 40         | 03/05/2014 21:20     |
| 1,2-Dichloropropane          | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| cis-1,3-Dichloropropene      | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| trans-1,3-Dichloropropene    | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| Freon 113                    | ND             | H                 | 20               | 40         | 03/05/2014 21:20     |
| Methylene chloride           | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 20               | 40         | 03/05/2014 21:20     |
| 1,1,1,2,2-Tetrachloroethane  | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| Tetrachloroethene            | <b>690</b>     | H                 | 10               | 40         | 03/05/2014 21:20     |
| 1,1,1-Trichloroethane        | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| 1,1,2-Trichloroethane        | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| Trichloroethene              | <b>380</b>     | H                 | 10               | 40         | 03/05/2014 21:20     |
| Trichlorofluoromethane       | ND             | H                 | 10               | 40         | 03/05/2014 21:20     |
| Vinyl Chloride               | <b>430</b>     | H                 | 10               | 40         | 03/05/2014 21:20     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 92             | H                 | 70-130           |            | 03/05/2014 21:20     |
| Toluene-d8                   | 114            | H                 | 70-130           |            | 03/05/2014 21:20     |
| 4-BFB                        | 86             | H                 | 70-130           |            | 03/05/2014 21:20     |



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 3/6/14  
**Date Analyzed:** 3/5/14  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1403100  
**BatchID:** 87828  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-87828

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 19.02      | 0.50 | 20      | -          | 95.1     | 70-130     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 17.57      | 0.50 | 20      | -          | 87.8     | 70-130     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 18.89      | 0.50 | 20      | -          | 94.5     | 70-130     |
| 1,1-Dichloroethene            | ND        | 19.26      | 0.50 | 20      | -          | 96.3     | 70-130     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 3/6/14  
**Date Analyzed:** 3/5/14  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1403100  
**BatchID:** 87828  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-87828

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 19.12      | 0.50 | 20      | -          | 95.6     | 70-130     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |

### Surrogate Recovery

|                      |       |       |  |     |     |     |        |
|----------------------|-------|-------|--|-----|-----|-----|--------|
| Dibromofluoromethane | 27.61 | 47.06 |  | 45  | 110 | 105 | 70-130 |
| Toluene-d8           | 23.39 | 38.5  |  | 45  | 94  | 86  | 70-130 |
| 4-BFB                | 2.51  | 3.968 |  | 4.5 | 100 | 88  | 70-130 |



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1403100

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQulS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**

Jeremy Smith  
AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597  
(925) 283-6000    FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com  
cc/3rd Party:  
PO:  
ProjectNo: #261829; Foothill Square

**Bill to:**

Sara Guerin  
AEI Consultants  
2500 Camino Diablo, Ste. #200  
Walnut Creek, CA 94597  
AccountsPayable@AEIConsultants.co

**Requested TAT: 2 days**

**Date Received: 03/05/2014**

**Date Printed: 03/05/2014**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 1403100-001 | SSD INF   | Air    | 3/5/2014 8:45   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1403100-002 | SVE-1 INF | Air    | 3/5/2014 9:00   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |           |    |  |   |  |   |  |    |  |
|----|-----------|----|--|---|--|---|--|----|--|
| 1  | 8010BMS_A | 2  |  | 3 |  | 4 |  | 5  |  |
| 6  |           | 7  |  | 8 |  | 9 |  | 10 |  |
| 11 |           | 12 |  |   |  |   |  |    |  |

The following SamplIDs: 001A, 002A contain testgroup.

**Prepared by: Maria Venegas**

**Comments:**    2 Day Rush

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS  
**Project:** #261829; Foothill Square  
**Comments:** 2 Day Rush

**QC Level:** LEVEL 2  
**Client Contact:** Jeremy Smith  
**Contact's Email:** jasmith@aeiconsultants.com

**Work Order:** 1403100  
**Date Received:** 3/5/2014

WaterTrax     WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

| Lab ID       | Client ID | Matrix | Test Name     | Number of Containers | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT    | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|---------------|----------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1403100-001A | SSD INF   | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 3/5/2014 8:45          | 2 days |                  | <input type="checkbox"/> |        |
| 1403100-002A | SVE-1 INF | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 3/5/2014 9:00          | 2 days |                  | <input type="checkbox"/> |        |

**\* NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

**Bottle Legend:**

Tedlar = Tedlar Air Bag

1403100

McCAMPBELL ANALYTICAL INC.

1534 Willow Pass Road  
Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH

24 HR

48 HR

72 HR

5 DAY

EDF Required?  Yes  No

Report To: Jeremy Smith Bill To: same P.O. # 53268  
Company: AEI Consultants  
2500 Camino Diablo  
Walnut Creek, CA 94597 E-Mail: jasmith@aeiconsultants.com  
Tele: (925) 746-6000 Fax: (925) 746-6099  
Project #: 261829 Project Name: Foothill Square  
Project Location: 10700 MacArthur Blvd. Oakland, CA  
Sampler Signature: John Sigg

Analysis Request

Other

Comments

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |  |  |  |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|--|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |  |  |  |
| SSD INF                         |          | 3-5-14   | 0845 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| SVE-1 INF                       |          | "        | 0900 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |

|                                             |   |
|---------------------------------------------|---|
| BTEX & TPH as Gas (602/8020 + 8015)/MTBE    |   |
| TPH as Diesel (8015) w/silica Gel Cleanup   |   |
| Total Petroleum Oil & Grease (5520 E&F/B&F) |   |
| Total Petroleum Hydrocarbons (418.1)        |   |
| HVOCs EPA 8260                              | X |
| BTEX ONLY (EPA 602 / 8020)                  |   |
| EPA 608 / 8080                              |   |
| EPA 608 / 8080 PCB's ONLY                   |   |
| EPA 624 / 8260                              |   |
| EPA 625 / 8270                              |   |
| PAH's / PNA's by EPA 625 / 8270 / 8310      |   |
| CAM-17 Metals                               |   |
| LUFT 5 Metals                               |   |
| Lead (7240/7421/239.2/6010)                 |   |
| RCI                                         |   |

Relinquished By: John Sigg Date: 3-5-14 Time: 0947 Received By: [Signature]  
 Relinquished By: [Signature] Date: [ ] Time: [ ] Received By: [ ]  
 Relinquished By: [ ] Date: [ ] Time: [ ] Received By: [ ]

ICE/° NA  
 GOOD CONDITION ✓  
 HEAD SPACE ABSENT ✓  
 DECHLORINATED IN LAB \_\_\_\_\_  
 PRESERVATION APPROPRIATE ✓  
 CONTAINERS PRESERVED IN LAB \_\_\_\_\_  
 VOAS \_\_\_\_\_ O&G \_\_\_\_\_ METALS \_\_\_\_\_ OTHER \_\_\_\_\_



### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **3/5/2014 9:53:27 AM**  
 Project Name: **#261829; Foothill Square** Login Reviewed by: **Maria Venegas**  
 WorkOrder N°: **1403100** Matrix: Air Carrier: Client Drop-In

**Chain of Custody (COC) Information**

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
 Container/Temp Blank temperature Cooler Temp: NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 Metal - pH acceptable upon receipt (pH<2)? Yes  No  NA   
 Samples Received on Ice? Yes  No

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:





# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1403662

**Report Created for:** AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597

**Project Contact:** Jeremy Smith

**Project P.O.:**

**Project Name:** #261829; Foothill Square; 10700 MacArthur Blvd,  
Oakland Ca

**Project Received:** 03/20/2014

Analytical Report reviewed & approved for release on 03/25/2014 by:

Question about  
your data?

[Click here to email  
McC Campbell](#)

Angela Rydelius,  
Laboratory Manager

*The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.*





## Glossary of Terms & Qualifier Definitions

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square; 10700 MacArthur Blvd, Oakland Ca  
**WorkOrder:** 1403662

### Glossary Abbreviation

|              |                                                                                                                                                                                                     |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 95% Interval | 95% Confident Interval                                                                                                                                                                              |
| DF           | Dilution Factor                                                                                                                                                                                     |
| DUP          | Duplicate                                                                                                                                                                                           |
| EDL          | Estimated Detection Limit                                                                                                                                                                           |
| ITEF         | International Toxicity Equivalence Factor                                                                                                                                                           |
| LCS          | Laboratory Control Sample                                                                                                                                                                           |
| MB           | Method Blank                                                                                                                                                                                        |
| MB % Rec     | % Recovery of Surrogate in Method Blank, if applicable                                                                                                                                              |
| MDL          | Method Detection Limit                                                                                                                                                                              |
| MS           | Matrix Spike                                                                                                                                                                                        |
| MSD          | Matrix Spike Duplicate                                                                                                                                                                              |
| ND           | Not detected at or above the indicated MDL or RL                                                                                                                                                    |
| NR           | Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content. |
| RD           | Relative Difference                                                                                                                                                                                 |
| RL           | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)                                                                                                            |
| RPD          | Relative Percent Deviation                                                                                                                                                                          |
| RRT          | Relative Retention Time                                                                                                                                                                             |
| SPK Val      | Spike Value                                                                                                                                                                                         |
| SPKRef Val   | Spike Reference Value                                                                                                                                                                               |
| TEQ          | Toxicity Equivalence                                                                                                                                                                                |

### Analytical Qualifier

H samples were analyzed out of holding time



# Analytical Report

Client: AEI Consultants

WorkOrder: 1403662

Project: #261829; Foothill Square; 10700 MacArthur Blvd, O

Extraction Method: SW5030B

Date Received: 3/20/14 11:36

Analytical Method: SW8260B

Date Prepared: 3/20/14-3/24/14

Unit: µg/m<sup>3</sup>

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|----------------|------------------|------------|----------------------|
| SSD INF                      | 1403662-001A   | Air            | 03/20/2014 10:15 | GC16       | 88391                |
| <u>Analytes</u>              | <u>Result</u>  |                | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| Bromoform                    | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| Bromomethane                 | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| Carbon Tetrachloride         | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| Chlorobenzene                | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| Chloroethane                 | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| Chloroform                   | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| Chloromethane                | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| Dibromochloromethane         | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| 1,2-Dibromoethane (EDB)      | ND             |                | 500              | 1          | 03/20/2014 16:11     |
| 1,2-Dichlorobenzene          | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| 1,3-Dichlorobenzene          | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| 1,4-Dichlorobenzene          | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| Dichlorodifluoromethane      | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| 1,1-Dichloroethane           | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| 1,2-Dichloroethane (1,2-DCA) | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| 1,1-Dichloroethene           | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| cis-1,2-Dichloroethene       | <b>330</b>     |                | 250              | 1          | 03/20/2014 16:11     |
| trans-1,2-Dichloroethene     | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| 1,2-Dichloropropane          | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| cis-1,3-Dichloropropene      | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| trans-1,3-Dichloropropene    | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| Freon 113                    | ND             |                | 500              | 1          | 03/20/2014 16:11     |
| Methylene chloride           | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| 1,1,1,2-Tetrachloroethane    | ND             |                | 500              | 1          | 03/20/2014 16:11     |
| 1,1,2,2-Tetrachloroethane    | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| Tetrachloroethene            | <b>5800</b>    |                | 250              | 1          | 03/20/2014 16:11     |
| 1,1,1-Trichloroethane        | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| 1,1,2-Trichloroethane        | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| Trichloroethene              | <b>730</b>     |                | 250              | 1          | 03/20/2014 16:11     |
| Trichlorofluoromethane       | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| Vinyl Chloride               | ND             |                | 250              | 1          | 03/20/2014 16:11     |
| <u>Surrogates</u>            | <u>REC (%)</u> |                | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 109            |                | 70-130           |            | 03/20/2014 16:11     |
| Toluene-d8                   | 96             |                | 70-130           |            | 03/20/2014 16:11     |
| 4-BFB                        | 104            |                | 70-130           |            | 03/20/2014 16:11     |

(Cont.)



# Analytical Report

Client: AEI Consultants

WorkOrder: 1403662

Project: #261829; Foothill Square; 10700 MacArthur Blvd, O

Extraction Method: SW5030B

Date Received: 3/20/14 11:36

Analytical Method: SW8260B

Date Prepared: 3/20/14-3/24/14

Unit: µg/m<sup>3</sup>

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SVE-1 INF                    | 1403662-002A   | Air               | 03/20/2014 10:20 | GC18       | 88541                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| Bromoform                    | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| Bromomethane                 | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| Carbon Tetrachloride         | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| Chlorobenzene                | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| Chloroethane                 | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| Chloroform                   | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| Chloromethane                | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| Dibromochloromethane         | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 20,000           | 40         | 03/24/2014 15:31     |
| 1,2-Dichlorobenzene          | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| 1,3-Dichlorobenzene          | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| 1,4-Dichlorobenzene          | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| Dichlorodifluoromethane      | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| 1,1-Dichloroethane           | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| 1,1-Dichloroethene           | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| cis-1,2-Dichloroethene       | 120,000        | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| trans-1,2-Dichloroethene     | 18,000         | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| 1,2-Dichloropropane          | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| cis-1,3-Dichloropropene      | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| trans-1,3-Dichloropropene    | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| Freon 113                    | ND             | H                 | 20,000           | 40         | 03/24/2014 15:31     |
| Methylene chloride           | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 20,000           | 40         | 03/24/2014 15:31     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| Tetrachloroethene            | 330,000        | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| 1,1,1-Trichloroethane        | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| 1,1,2-Trichloroethane        | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| Trichloroethene              | 97,000         | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| Trichlorofluoromethane       | ND             | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| Vinyl Chloride               | 34,000         | H                 | 10,000           | 40         | 03/24/2014 15:31     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 98             | H                 | 70-130           |            | 03/24/2014 15:31     |
| Toluene-d8                   | 97             | H                 | 70-130           |            | 03/24/2014 15:31     |
| 4-BFB                        | 91             | H                 | 70-130           |            | 03/24/2014 15:31     |

(Cont.)



## Analytical Report

|                       |                                                   |                           |                   |
|-----------------------|---------------------------------------------------|---------------------------|-------------------|
| <b>Client:</b>        | AEI Consultants                                   | <b>WorkOrder:</b>         | 1403662           |
| <b>Project:</b>       | #261829; Foothill Square; 10700 MacArthur Blvd, O | <b>Extraction Method:</b> | SW5030B           |
| <b>Date Received:</b> | 3/20/14 11:36                                     | <b>Analytical Method:</b> | SW8260B           |
| <b>Date Prepared:</b> | 3/20/14-3/24/14                                   | <b>Unit:</b>              | µg/m <sup>3</sup> |

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID              | Matrix/ExtType    | Date Collected          | Instrument  | Batch ID             |
|------------------------------|---------------------|-------------------|-------------------------|-------------|----------------------|
| <b>SSD MID</b>               | <b>1403662-003A</b> | <b>Air</b>        | <b>03/20/2014 10:00</b> | <b>GC16</b> | <b>88391</b>         |
| <u>Analytes</u>              | <u>Result</u>       | <u>Qualifiers</u> | <u>RL</u>               | <u>DF</u>   | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| Bromoform                    | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| Bromomethane                 | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| Carbon Tetrachloride         | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| Chlorobenzene                | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| Chloroethane                 | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| Chloroform                   | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| Chloromethane                | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| Dibromochloromethane         | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| 1,2-Dibromoethane (EDB)      | ND                  | H                 | 500                     | 1           | 03/20/2014 17:38     |
| 1,2-Dichlorobenzene          | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| 1,3-Dichlorobenzene          | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| 1,4-Dichlorobenzene          | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| Dichlorodifluoromethane      | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| 1,1-Dichloroethane           | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| 1,2-Dichloroethane (1,2-DCA) | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| 1,1-Dichloroethene           | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| cis-1,2-Dichloroethene       | <b>650</b>          | H                 | 250                     | 1           | 03/20/2014 17:38     |
| trans-1,2-Dichloroethene     | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| 1,2-Dichloropropane          | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| cis-1,3-Dichloropropene      | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| trans-1,3-Dichloropropene    | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| Freon 113                    | ND                  | H                 | 500                     | 1           | 03/20/2014 17:38     |
| Methylene chloride           | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| 1,1,1,2-Tetrachloroethane    | ND                  | H                 | 500                     | 1           | 03/20/2014 17:38     |
| 1,1,2,2-Tetrachloroethane    | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| Tetrachloroethene            | <b>290</b>          | H                 | 250                     | 1           | 03/20/2014 17:38     |
| 1,1,1-Trichloroethane        | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| 1,1,2-Trichloroethane        | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| Trichloroethene              | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| Trichlorofluoromethane       | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| Vinyl Chloride               | ND                  | H                 | 250                     | 1           | 03/20/2014 17:38     |
| <u>Surrogates</u>            | <u>REC (%)</u>      | <u>Qualifiers</u> | <u>Limits</u>           |             |                      |
| Dibromofluoromethane         | 110                 | H                 | 70-130                  |             | 03/20/2014 17:38     |
| Toluene-d8                   | 95                  | H                 | 70-130                  |             | 03/20/2014 17:38     |
| 4-BFB                        | 105                 | H                 | 70-130                  |             | 03/20/2014 17:38     |

(Cont.)



# Analytical Report

**Client:** AEI Consultants **WorkOrder:** 1403662  
**Project:** #261829; Foothill Square; 10700 MacArthur Blvd, O **Extraction Method:** SW5030B  
**Date Received:** 3/20/14 11:36 **Analytical Method:** SW8260B  
**Date Prepared:** 3/20/14-3/24/14 **Unit:** µg/m<sup>3</sup>

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID              | Matrix/ExtType    | Date Collected          | Instrument  | Batch ID             |
|------------------------------|---------------------|-------------------|-------------------------|-------------|----------------------|
| <b>SVE MID</b>               | <b>1403662-004A</b> | <b>Air</b>        | <b>03/20/2014 10:05</b> | <b>GC16</b> | <b>88451</b>         |
| <u>Analytes</u>              | <u>Result</u>       | <u>Qualifiers</u> | <u>RL</u>               | <u>DF</u>   | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| Bromoform                    | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| Bromomethane                 | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| Carbon Tetrachloride         | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| Chlorobenzene                | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| Chloroethane                 | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| Chloroform                   | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| Chloromethane                | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| Dibromochloromethane         | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| 1,2-Dibromoethane (EDB)      | ND                  | H                 | 1000                    | 2           | 03/21/2014 19:45     |
| 1,2-Dichlorobenzene          | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| 1,3-Dichlorobenzene          | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| 1,4-Dichlorobenzene          | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| Dichlorodifluoromethane      | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| 1,1-Dichloroethane           | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| 1,2-Dichloroethane (1,2-DCA) | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| 1,1-Dichloroethene           | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| cis-1,2-Dichloroethene       | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| trans-1,2-Dichloroethene     | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| 1,2-Dichloropropane          | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| cis-1,3-Dichloropropene      | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| trans-1,3-Dichloropropene    | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| Freon 113                    | ND                  | H                 | 1000                    | 2           | 03/21/2014 19:45     |
| Methylene chloride           | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| 1,1,1,2-Tetrachloroethane    | ND                  | H                 | 1000                    | 2           | 03/21/2014 19:45     |
| 1,1,2,2-Tetrachloroethane    | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| Tetrachloroethene            | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| 1,1,1-Trichloroethane        | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| 1,1,2-Trichloroethane        | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| Trichloroethene              | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| Trichlorofluoromethane       | ND                  | H                 | 500                     | 2           | 03/21/2014 19:45     |
| Vinyl Chloride               | <b>22,000</b>       | H                 | 500                     | 2           | 03/21/2014 19:45     |
| <u>Surrogates</u>            | <u>REC (%)</u>      | <u>Qualifiers</u> | <u>Limits</u>           |             |                      |
| Dibromofluoromethane         | 111                 | H                 | 70-130                  |             | 03/21/2014 19:45     |
| Toluene-d8                   | 98                  | H                 | 70-130                  |             | 03/21/2014 19:45     |
| 4-BFB                        | 102                 | H                 | 70-130                  |             | 03/21/2014 19:45     |

(Cont.)



# Analytical Report

Client: AEI Consultants

WorkOrder: 1403662

Project: #261829; Foothill Square; 10700 MacArthur Blvd, O

Extraction Method: SW5030B

Date Received: 3/20/14 11:36

Analytical Method: SW8260B

Date Prepared: 3/20/14-3/24/14

Unit: µg/m<sup>3</sup>

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID         |
|------------------------------|--------------|----------------|------------------|------------|------------------|
| SSD EFF                      | 1403662-005A | Air            | 03/20/2014 09:50 | GC16       | 88451            |
| Analytes                     | Result       | Qualifiers     | RL               | DF         | Date Analyzed    |
| Bromodichloromethane         | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| Bromoform                    | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| Bromomethane                 | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| Carbon Tetrachloride         | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| Chlorobenzene                | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| Chloroethane                 | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| Chloroform                   | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| Chloromethane                | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| Dibromochloromethane         | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| 1,2-Dibromoethane (EDB)      | ND           | H              | 500              | 1          | 03/21/2014 16:51 |
| 1,2-Dichlorobenzene          | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| 1,3-Dichlorobenzene          | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| 1,4-Dichlorobenzene          | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| Dichlorodifluoromethane      | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| 1,1-Dichloroethane           | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| 1,2-Dichloroethane (1,2-DCA) | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| 1,1-Dichloroethene           | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| cis-1,2-Dichloroethene       | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| trans-1,2-Dichloroethene     | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| 1,2-Dichloropropane          | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| cis-1,3-Dichloropropene      | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| trans-1,3-Dichloropropene    | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| Freon 113                    | ND           | H              | 500              | 1          | 03/21/2014 16:51 |
| Methylene chloride           | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| 1,1,1,2-Tetrachloroethane    | ND           | H              | 500              | 1          | 03/21/2014 16:51 |
| 1,1,2,2-Tetrachloroethane    | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| Tetrachloroethene            | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| 1,1,1-Trichloroethane        | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| 1,1,2-Trichloroethane        | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| Trichloroethene              | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| Trichlorofluoromethane       | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| Vinyl Chloride               | ND           | H              | 250              | 1          | 03/21/2014 16:51 |
| Surrogates                   | REC (%)      | Qualifiers     | Limits           |            |                  |
| Dibromofluoromethane         | 111          | H              | 70-130           |            | 03/21/2014 16:51 |
| Toluene-d8                   | 98           | H              | 70-130           |            | 03/21/2014 16:51 |
| 4-BFB                        | 103          | H              | 70-130           |            | 03/21/2014 16:51 |

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# Analytical Report

**Client:** AEI Consultants **WorkOrder:** 1403662  
**Project:** #261829; Foothill Square; 10700 MacArthur Blvd, O **Extraction Method:** SW5030B  
**Date Received:** 3/20/14 11:36 **Analytical Method:** SW8260B  
**Date Prepared:** 3/20/14-3/24/14 **Unit:** µg/m<sup>3</sup>

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SVE EFF                      | 1403662-006A   | Air               | 03/20/2014 09:45 | GC16       | 88451                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| Bromoform                    | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| Bromomethane                 | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| Carbon Tetrachloride         | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| Chlorobenzene                | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| Chloroethane                 | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| Chloroform                   | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| Chloromethane                | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| Dibromochloromethane         | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 500              | 1          | 03/21/2014 17:36     |
| 1,2-Dichlorobenzene          | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| 1,3-Dichlorobenzene          | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| 1,4-Dichlorobenzene          | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| Dichlorodifluoromethane      | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| 1,1-Dichloroethane           | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| 1,1-Dichloroethene           | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| cis-1,2-Dichloroethene       | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| trans-1,2-Dichloroethene     | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| 1,2-Dichloropropane          | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| cis-1,3-Dichloropropene      | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| trans-1,3-Dichloropropene    | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| Freon 113                    | ND             | H                 | 500              | 1          | 03/21/2014 17:36     |
| Methylene chloride           | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 500              | 1          | 03/21/2014 17:36     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| Tetrachloroethene            | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| 1,1,1-Trichloroethane        | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| 1,1,2-Trichloroethane        | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| Trichloroethene              | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| Trichlorofluoromethane       | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| Vinyl Chloride               | ND             | H                 | 250              | 1          | 03/21/2014 17:36     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 111            | H                 | 70-130           |            | 03/21/2014 17:36     |
| Toluene-d8                   | 99             | H                 | 70-130           |            | 03/21/2014 17:36     |
| 4-BFB                        | 103            | H                 | 70-130           |            | 03/21/2014 17:36     |





## Analytical Report

**Client:** AEI Consultants **WorkOrder:** 1403662  
**Project:** #261829; Foothill Square; 10700 MacArthur Blvd, O **Extraction Method:** SW5030B  
**Date Received:** 3/20/14 11:36 **Analytical Method:** SW8260B  
**Date Prepared:** 3/20/14-3/24/14 **Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|----------------|------------------|------------|----------------------|
| SSD INF                      | 1403662-001A   | Air            | 03/20/2014 10:15 | GC16       | 88391                |
| <u>Analytes</u>              | <u>Result</u>  |                | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| Bromoform                    | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| Bromomethane                 | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| Carbon Tetrachloride         | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| Chlorobenzene                | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| Chloroethane                 | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| Chloroform                   | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| Chloromethane                | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| Dibromochloromethane         | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| 1,2-Dibromoethane (EDB)      | ND             |                | 0.50             | 1          | 03/20/2014 16:11     |
| 1,2-Dichlorobenzene          | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| 1,3-Dichlorobenzene          | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| 1,4-Dichlorobenzene          | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| Dichlorodifluoromethane      | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| 1,1-Dichloroethane           | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| 1,2-Dichloroethane (1,2-DCA) | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| 1,1-Dichloroethene           | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| cis-1,2-Dichloroethene       | <b>0.33</b>    |                | 0.25             | 1          | 03/20/2014 16:11     |
| trans-1,2-Dichloroethene     | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| 1,2-Dichloropropane          | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| cis-1,3-Dichloropropene      | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| trans-1,3-Dichloropropene    | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| Freon 113                    | ND             |                | 0.50             | 1          | 03/20/2014 16:11     |
| Methylene chloride           | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| 1,1,1,2-Tetrachloroethane    | ND             |                | 0.50             | 1          | 03/20/2014 16:11     |
| 1,1,2,2-Tetrachloroethane    | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| Tetrachloroethene            | <b>5.8</b>     |                | 0.25             | 1          | 03/20/2014 16:11     |
| 1,1,1-Trichloroethane        | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| 1,1,2-Trichloroethane        | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| Trichloroethene              | <b>0.73</b>    |                | 0.25             | 1          | 03/20/2014 16:11     |
| Trichlorofluoromethane       | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| Vinyl Chloride               | ND             |                | 0.25             | 1          | 03/20/2014 16:11     |
| <u>Surrogates</u>            | <u>REC (%)</u> |                | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 109            |                | 70-130           |            | 03/20/2014 16:11     |
| Toluene-d8                   | 96             |                | 70-130           |            | 03/20/2014 16:11     |
| 4-BFB                        | 104            |                | 70-130           |            | 03/20/2014 16:11     |

(Cont.)



## Analytical Report

|                       |                                                   |                           |         |
|-----------------------|---------------------------------------------------|---------------------------|---------|
| <b>Client:</b>        | AEI Consultants                                   | <b>WorkOrder:</b>         | 1403662 |
| <b>Project:</b>       | #261829; Foothill Square; 10700 MacArthur Blvd, O | <b>Extraction Method:</b> | SW5030B |
| <b>Date Received:</b> | 3/20/14 11:36                                     | <b>Analytical Method:</b> | SW8260B |
| <b>Date Prepared:</b> | 3/20/14-3/24/14                                   | <b>Unit:</b>              | µg/L    |

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SVE-1 INF                    | 1403662-002A   | Air               | 03/20/2014 10:20 | GC18       | 88541                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| Bromoform                    | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| Bromomethane                 | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| Carbon Tetrachloride         | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| Chlorobenzene                | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| Chloroethane                 | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| Chloroform                   | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| Chloromethane                | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| Dibromochloromethane         | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 20               | 40         | 03/24/2014 15:31     |
| 1,2-Dichlorobenzene          | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| 1,3-Dichlorobenzene          | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| 1,4-Dichlorobenzene          | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| Dichlorodifluoromethane      | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| 1,1-Dichloroethane           | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| 1,1-Dichloroethene           | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| cis-1,2-Dichloroethene       | <b>120</b>     | H                 | 10               | 40         | 03/24/2014 15:31     |
| trans-1,2-Dichloroethene     | <b>18</b>      | H                 | 10               | 40         | 03/24/2014 15:31     |
| 1,2-Dichloropropane          | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| cis-1,3-Dichloropropene      | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| trans-1,3-Dichloropropene    | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| Freon 113                    | ND             | H                 | 20               | 40         | 03/24/2014 15:31     |
| Methylene chloride           | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 20               | 40         | 03/24/2014 15:31     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| Tetrachloroethene            | <b>330</b>     | H                 | 10               | 40         | 03/24/2014 15:31     |
| 1,1,1-Trichloroethane        | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| 1,1,2-Trichloroethane        | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| Trichloroethene              | <b>97</b>      | H                 | 10               | 40         | 03/24/2014 15:31     |
| Trichlorofluoromethane       | ND             | H                 | 10               | 40         | 03/24/2014 15:31     |
| Vinyl Chloride               | <b>34</b>      | H                 | 10               | 40         | 03/24/2014 15:31     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 98             | H                 | 70-130           |            | 03/24/2014 15:31     |
| Toluene-d8                   | 97             | H                 | 70-130           |            | 03/24/2014 15:31     |
| 4-BFB                        | 91             | H                 | 70-130           |            | 03/24/2014 15:31     |

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# Analytical Report

Client: AEI Consultants

WorkOrder: 1403662

Project: #261829; Foothill Square; 10700 MacArthur Blvd, O

Extraction Method: SW5030B

Date Received: 3/20/14 11:36

Analytical Method: SW8260B

Date Prepared: 3/20/14-3/24/14

Unit: µg/L

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SSD MID                      | 1403662-003A   | Air               | 03/20/2014 10:00 | GC16       | 88391                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| Bromoform                    | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| Bromomethane                 | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| Carbon Tetrachloride         | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| Chlorobenzene                | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| Chloroethane                 | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| Chloroform                   | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| Chloromethane                | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| Dibromochloromethane         | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 0.50             | 1          | 03/20/2014 17:38     |
| 1,2-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| 1,3-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| 1,4-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| Dichlorodifluoromethane      | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| 1,1-Dichloroethane           | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| 1,1-Dichloroethene           | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| cis-1,2-Dichloroethene       | 0.65           | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| trans-1,2-Dichloroethene     | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| 1,2-Dichloropropane          | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| cis-1,3-Dichloropropene      | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| trans-1,3-Dichloropropene    | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| Freon 113                    | ND             | H                 | 0.50             | 1          | 03/20/2014 17:38     |
| Methylene chloride           | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 0.50             | 1          | 03/20/2014 17:38     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| Tetrachloroethene            | 0.29           | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| 1,1,1-Trichloroethane        | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| 1,1,2-Trichloroethane        | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| Trichloroethene              | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| Trichlorofluoromethane       | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| Vinyl Chloride               | ND             | H                 | 0.25             | 1          | 03/20/2014 17:38     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 110            | H                 | 70-130           |            | 03/20/2014 17:38     |
| Toluene-d8                   | 95             | H                 | 70-130           |            | 03/20/2014 17:38     |
| 4-BFB                        | 105            | H                 | 70-130           |            | 03/20/2014 17:38     |

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## Analytical Report

**Client:** AEI Consultants **WorkOrder:** 1403662  
**Project:** #261829; Foothill Square; 10700 MacArthur Blvd, O **Extraction Method:** SW5030B  
**Date Received:** 3/20/14 11:36 **Analytical Method:** SW8260B  
**Date Prepared:** 3/20/14-3/24/14 **Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID              | Matrix/ExtType    | Date Collected          | Instrument  | Batch ID             |
|------------------------------|---------------------|-------------------|-------------------------|-------------|----------------------|
| <b>SVE MID</b>               | <b>1403662-004A</b> | <b>Air</b>        | <b>03/20/2014 10:05</b> | <b>GC16</b> | <b>88451</b>         |
| <u>Analytes</u>              | <u>Result</u>       | <u>Qualifiers</u> | <u>RL</u>               | <u>DF</u>   | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| Bromoform                    | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| Bromomethane                 | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| Carbon Tetrachloride         | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| Chlorobenzene                | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| Chloroethane                 | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| Chloroform                   | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| Chloromethane                | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| Dibromochloromethane         | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| 1,2-Dibromoethane (EDB)      | ND                  | H                 | 1.0                     | 2           | 03/21/2014 19:45     |
| 1,2-Dichlorobenzene          | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| 1,3-Dichlorobenzene          | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| 1,4-Dichlorobenzene          | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| Dichlorodifluoromethane      | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| 1,1-Dichloroethane           | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| 1,2-Dichloroethane (1,2-DCA) | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| 1,1-Dichloroethene           | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| cis-1,2-Dichloroethene       | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| trans-1,2-Dichloroethene     | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| 1,2-Dichloropropane          | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| cis-1,3-Dichloropropene      | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| trans-1,3-Dichloropropene    | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| Freon 113                    | ND                  | H                 | 1.0                     | 2           | 03/21/2014 19:45     |
| Methylene chloride           | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| 1,1,1,2-Tetrachloroethane    | ND                  | H                 | 1.0                     | 2           | 03/21/2014 19:45     |
| 1,1,2,2-Tetrachloroethane    | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| Tetrachloroethene            | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| 1,1,1-Trichloroethane        | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| 1,1,2-Trichloroethane        | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| Trichloroethene              | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| Trichlorofluoromethane       | ND                  | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| Vinyl Chloride               | <b>22</b>           | H                 | 0.50                    | 2           | 03/21/2014 19:45     |
| <u>Surrogates</u>            | <u>REC (%)</u>      | <u>Qualifiers</u> | <u>Limits</u>           |             |                      |
| Dibromofluoromethane         | 111                 | H                 | 70-130                  |             | 03/21/2014 19:45     |
| Toluene-d8                   | 98                  | H                 | 70-130                  |             | 03/21/2014 19:45     |
| 4-BFB                        | 102                 | H                 | 70-130                  |             | 03/21/2014 19:45     |

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# Analytical Report

**Client:** AEI Consultants **WorkOrder:** 1403662  
**Project:** #261829; Foothill Square; 10700 MacArthur Blvd, O **Extraction Method:** SW5030B  
**Date Received:** 3/20/14 11:36 **Analytical Method:** SW8260B  
**Date Prepared:** 3/20/14-3/24/14 **Unit:** µg/L

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SSD EFF                      | 1403662-005A   | Air               | 03/20/2014 09:50 | GC16       | 88451                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| Bromoform                    | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| Bromomethane                 | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| Carbon Tetrachloride         | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| Chlorobenzene                | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| Chloroethane                 | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| Chloroform                   | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| Chloromethane                | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| Dibromochloromethane         | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 0.50             | 1          | 03/21/2014 16:51     |
| 1,2-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| 1,3-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| 1,4-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| Dichlorodifluoromethane      | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| 1,1-Dichloroethane           | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| 1,1-Dichloroethene           | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| cis-1,2-Dichloroethene       | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| trans-1,2-Dichloroethene     | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| 1,2-Dichloropropane          | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| cis-1,3-Dichloropropene      | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| trans-1,3-Dichloropropene    | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| Freon 113                    | ND             | H                 | 0.50             | 1          | 03/21/2014 16:51     |
| Methylene chloride           | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 0.50             | 1          | 03/21/2014 16:51     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| Tetrachloroethene            | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| 1,1,1-Trichloroethane        | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| 1,1,2-Trichloroethane        | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| Trichloroethene              | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| Trichlorofluoromethane       | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| Vinyl Chloride               | ND             | H                 | 0.25             | 1          | 03/21/2014 16:51     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 111            | H                 | 70-130           |            | 03/21/2014 16:51     |
| Toluene-d8                   | 98             | H                 | 70-130           |            | 03/21/2014 16:51     |
| 4-BFB                        | 103            | H                 | 70-130           |            | 03/21/2014 16:51     |

(Cont.)



# Analytical Report

**Client:** AEI Consultants **WorkOrder:** 1403662  
**Project:** #261829; Foothill Square; 10700 MacArthur Blvd, O **Extraction Method:** SW5030B  
**Date Received:** 3/20/14 11:36 **Analytical Method:** SW8260B  
**Date Prepared:** 3/20/14-3/24/14 **Unit:** µg/L

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SVE EFF                      | 1403662-006A   | Air               | 03/20/2014 09:45 | GC16       | 88451                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| Bromoform                    | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| Bromomethane                 | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| Carbon Tetrachloride         | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| Chlorobenzene                | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| Chloroethane                 | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| Chloroform                   | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| Chloromethane                | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| Dibromochloromethane         | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 0.50             | 1          | 03/21/2014 17:36     |
| 1,2-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| 1,3-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| 1,4-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| Dichlorodifluoromethane      | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| 1,1-Dichloroethane           | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| 1,1-Dichloroethene           | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| cis-1,2-Dichloroethene       | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| trans-1,2-Dichloroethene     | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| 1,2-Dichloropropane          | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| cis-1,3-Dichloropropene      | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| trans-1,3-Dichloropropene    | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| Freon 113                    | ND             | H                 | 0.50             | 1          | 03/21/2014 17:36     |
| Methylene chloride           | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 0.50             | 1          | 03/21/2014 17:36     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| Tetrachloroethene            | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| 1,1,1-Trichloroethane        | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| 1,1,2-Trichloroethane        | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| Trichloroethene              | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| Trichlorofluoromethane       | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| Vinyl Chloride               | ND             | H                 | 0.25             | 1          | 03/21/2014 17:36     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 111            | H                 | 70-130           |            | 03/21/2014 17:36     |
| Toluene-d8                   | 99             | H                 | 70-130           |            | 03/21/2014 17:36     |
| 4-BFB                        | 103            | H                 | 70-130           |            | 03/21/2014 17:36     |



# Quality Control Report

|                       |                                                               |                           |                                    |
|-----------------------|---------------------------------------------------------------|---------------------------|------------------------------------|
| <b>Client:</b>        | AEI Consultants                                               | <b>WorkOrder:</b>         | 1403662                            |
| <b>Date Prepared:</b> | 3/20/14                                                       | <b>BatchID:</b>           | 88391                              |
| <b>Date Analyzed:</b> | 3/20/14                                                       | <b>Extraction Method:</b> | SW5030B                            |
| <b>Instrument:</b>    | GC16                                                          | <b>Analytical Method:</b> | SW8260B                            |
| <b>Matrix:</b>        | Water                                                         | <b>Unit:</b>              | µg/L                               |
| <b>Project:</b>       | #261829; Foothill Square; 10700 MacArthur Blvd,<br>Oakland Ca | <b>Sample ID:</b>         | MB/LCS-88391<br>1403553-006AMS/MSD |

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 18.87      | 0.50 | 20      | -          | 94.4     | 70-130     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 20.77      | 0.50 | 20      | -          | 104      | 70-130     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 22.16      | 0.50 | 20      | -          | 111      | 70-130     |
| 1,1-Dichloroethene            | ND        | 20.36      | 0.50 | 20      | -          | 102      | 70-130     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



# Quality Control Report

|                       |                                                               |                           |                                    |
|-----------------------|---------------------------------------------------------------|---------------------------|------------------------------------|
| <b>Client:</b>        | AEI Consultants                                               | <b>WorkOrder:</b>         | 1403662                            |
| <b>Date Prepared:</b> | 3/20/14                                                       | <b>BatchID:</b>           | 88391                              |
| <b>Date Analyzed:</b> | 3/20/14                                                       | <b>Extraction Method:</b> | SW5030B                            |
| <b>Instrument:</b>    | GC16                                                          | <b>Analytical Method:</b> | SW8260B                            |
| <b>Matrix:</b>        | Water                                                         | <b>Unit:</b>              | µg/L                               |
| <b>Project:</b>       | #261829; Foothill Square; 10700 MacArthur Blvd,<br>Oakland Ca | <b>Sample ID:</b>         | MB/LCS-88391<br>1403553-006AMS/MSD |

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 18.73      | 0.50 | 20      | -          | 93.7     | 70-130     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |
| <b>Surrogate Recovery</b>     |           |            |      |         |            |          |            |
| Dibromofluoromethane          | 27.69     | 48.26      |      | 45      | 111        | 107      | 70-130     |
| Toluene-d8                    | 23.62     | 38.67      |      | 45      | 94         | 86       | 70-130     |
| 4-BFB                         | 2.675     | 4.428      |      | 4.5     | 107        | 98       | 70-130     |

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## Quality Control Report

|                       |                                                               |                           |                                    |
|-----------------------|---------------------------------------------------------------|---------------------------|------------------------------------|
| <b>Client:</b>        | AEI Consultants                                               | <b>WorkOrder:</b>         | 1403662                            |
| <b>Date Prepared:</b> | 3/20/14                                                       | <b>BatchID:</b>           | 88391                              |
| <b>Date Analyzed:</b> | 3/20/14                                                       | <b>Extraction Method:</b> | SW5030B                            |
| <b>Instrument:</b>    | GC16                                                          | <b>Analytical Method:</b> | SW8260B                            |
| <b>Matrix:</b>        | Water                                                         | <b>Unit:</b>              | µg/L                               |
| <b>Project:</b>       | #261829; Foothill Square; 10700 MacArthur Blvd,<br>Oakland Ca | <b>Sample ID:</b>         | MB/LCS-88391<br>1403553-006AMS/MSD |

### QC Summary Report for SW8260B

| Analyte                      | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD  | RPD Limit |
|------------------------------|-----------|------------|---------|------------|---------|----------|---------------|------|-----------|
| Chlorobenzene                | 18.44     | 18.69      | 20      | ND         | 92.2    | 93.4     | 70-130        | 1.36 | 20        |
| 1,2-Dibromoethane (EDB)      | 20.56     | 20.5       | 20      | ND         | 103     | 103      | 70-130        | 0    | 20        |
| 1,2-Dichloroethane (1,2-DCA) | 22.13     | 22.11      | 20      | ND         | 111     | 111      | 70-130        | 0    | 20        |
| 1,1-Dichloroethene           | 20.98     | 21.08      | 20      | ND         | 105     | 105      | 70-130        | 0    | 20        |
| Trichloroethene              | 18.77     | 19         | 20      | ND         | 93.9    | 95       | 70-130        | 1.19 | 20        |
| <b>Surrogate Recovery</b>    |           |            |         |            |         |          |               |      |           |
| Dibromofluoromethane         | 48.74     | 48.71      | 45      |            | 108     | 108      | 70-130        | 0    | 20        |
| Toluene-d8                   | 38.38     | 38.89      | 45      |            | 85      | 86       | 70-130        | 1.31 | 20        |
| 4-BFB                        | 4.382     | 4.383      | 4.5     |            | 97      | 97       | 70-130        | 0    | 20        |

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# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 3/21/14  
**Date Analyzed:** 3/21/14  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** #261829; Foothill Square; 10700 MacArthur Blvd,  
 Oakland Ca

**WorkOrder:** 1403662  
**BatchID:** 88451  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-88451

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 19.38      | 0.50 | 20      | -          | 96.9     | 70-130     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 20.1       | 0.50 | 20      | -          | 101      | 70-130     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 22.56      | 0.50 | 20      | -          | 113      | 70-130     |
| 1,1-Dichloroethene            | ND        | 20.93      | 0.50 | 20      | -          | 105      | 70-130     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 3/21/14  
**Date Analyzed:** 3/21/14  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** #261829; Foothill Square; 10700 MacArthur Blvd,  
 Oakland Ca

**WorkOrder:** 1403662  
**BatchID:** 88451  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-88451

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 19.88      | 0.50 | 20      | -          | 99.4     | 70-130     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |
| <b>Surrogate Recovery</b>     |           |            |      |         |            |          |            |
| Dibromofluoromethane          | 27.9      | 50.53      |      | 45      | 112        | 112      | 70-130     |
| Toluene-d8                    | 24.42     | 40.59      |      | 45      | 98         | 90       | 70-130     |
| 4-BFB                         | 2.631     | 4.432      |      | 4.5     | 105        | 98       | 70-130     |

(Cont.)



## Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 3/24/14  
**Date Analyzed:** 3/24/14  
**Instrument:** GC18  
**Matrix:** Water  
**Project:** #261829; Foothill Square; 10700 MacArthur Blvd,  
 Oakland Ca

**WorkOrder:** 1403662  
**BatchID:** 88541  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-88541

### QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 19.19      | 0.50 | 20      | -          | 95.9     | 70-130     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 19.55      | 0.50 | 20      | -          | 97.8     | 70-130     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 18.33      | 0.50 | 20      | -          | 91.7     | 70-130     |
| 1,1-Dichloroethene            | ND        | 16.66      | 0.50 | 20      | -          | 83.3     | 70-130     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 3/24/14  
**Date Analyzed:** 3/24/14  
**Instrument:** GC18  
**Matrix:** Water  
**Project:** #261829; Foothill Square; 10700 MacArthur Blvd,  
 Oakland Ca

**WorkOrder:** 1403662  
**BatchID:** 88541  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-88541

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 18.29      | 0.50 | 20      | -          | 91.5     | 70-130     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |

### Surrogate Recovery

|                      |       |       |  |     |    |    |        |
|----------------------|-------|-------|--|-----|----|----|--------|
| Dibromofluoromethane | 23.25 | 42.86 |  | 45  | 93 | 95 | 70-130 |
| Toluene-d8           | 24.55 | 43.97 |  | 45  | 98 | 98 | 70-130 |
| 4-BFB                | 2.324 | 4.18  |  | 4.5 | 93 | 93 | 70-130 |



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1403662

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQulS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**

Jeremy Smith  
AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597  
(925) 283-6000    FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com  
cc/3rd Party:  
PO:  
ProjectNo: #261829; Foothill Square; 10700  
MacArthur Blvd, Oakland Ca

**Bill to:**

Sara Guerin  
AEI Consultants  
2500 Camino Diablo, Ste. #200  
Walnut Creek, CA 94597  
AccountsPayable@AEIConsultants.co

**Requested TAT:**

**3 days**

**Date Received: 03/20/2014**

**Date Printed: 03/20/2014**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 1403662-001 | SSD INF   | Air    | 3/20/2014 10:15 | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |
| 1403662-002 | SVE-1 INF | Air    | 3/20/2014 10:20 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1403662-003 | SSD MID   | Air    | 3/20/2014 10:00 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1403662-004 | SVE MID   | Air    | 3/20/2014 10:05 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1403662-005 | SSD EFF   | Air    | 3/20/2014 9:50  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1403662-006 | SVE EFF   | Air    | 3/20/2014 9:45  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |           |    |              |   |  |   |  |    |  |
|----|-----------|----|--------------|---|--|---|--|----|--|
| 1  | 8010BMS_A | 2  | PREDF REPORT | 3 |  | 4 |  | 5  |  |
| 6  |           | 7  |              | 8 |  | 9 |  | 10 |  |
| 11 |           | 12 |              |   |  |   |  |    |  |

The following SamplIDs: 001A, 002A, 003A, 004A, 005A, 006A contain testgroup.

**Prepared by: Elisa Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS

**QC Level:** LEVEL 2

**Work Order:** 1403662

**Project:** #261829; Foothill Square; 10700 MacArthur Blvd, Oakland

**Client Contact:** Jeremy Smith

**Date Received:** 3/20/2014

**Comments:**

**Contact's Email:** jasmith@aeiconsultants.com

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  Fax   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

| Lab ID       | Client ID | Matrix | Test Name     | Number of Containers | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT    | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|---------------|----------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1403662-001A | SSD INF   | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 3/20/2014 10:15        | 3 days |                  | <input type="checkbox"/> |        |
| 1403662-002A | SVE-1 INF | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 3/20/2014 10:20        | 3 days |                  | <input type="checkbox"/> |        |
| 1403662-003A | SSD MID   | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 3/20/2014 10:00        | 3 days |                  | <input type="checkbox"/> |        |
| 1403662-004A | SVE MID   | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 3/20/2014 10:05        | 3 days |                  | <input type="checkbox"/> |        |
| 1403662-005A | SSD EFF   | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 3/20/2014 9:50         | 3 days |                  | <input type="checkbox"/> |        |
| 1403662-006A | SVE EFF   | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 3/20/2014 9:45         | 3 days |                  | <input type="checkbox"/> |        |

**\* NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

**Bottle Legend:**

Tedlar = Tedlar Air Bag

AEZ 1403062

**RUSH**

**McCAMPBELL ANALYTICAL INC.**

1534 Willow Pass Road  
Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

**CHAIN OF CUSTODY RECORD**

TURN AROUND TIME

RUSH 24 HR  
 48 HR  
 72 HR  
 5 DAY

EDF Required?  Yes  No

**Report To:** Jeremy Smith      **Bill To:** same      **P.O. #**  
**Company:** AEI Consultants  
 2500 Camino Diablo  
 Walnut Creek, CA 94597      **E-Mail:** jasmith@aeiconsultants.com  
**Tele:** (925) 746-6000      **Fax:** (925) 746-6099  
**Project #:** 261829      **Project Name:** Foothill Square  
**Project Location:** 10700 MacArthur Blvd. Oakland, CA  
**Sampler Signature:** *John Sigg*

| Analysis Request                         |                                           |                                             |                                      |                |                            |                |                           |                |                | Other                                  | Comments      |               |                             |     |  |  |
|------------------------------------------|-------------------------------------------|---------------------------------------------|--------------------------------------|----------------|----------------------------|----------------|---------------------------|----------------|----------------|----------------------------------------|---------------|---------------|-----------------------------|-----|--|--|
| BTEX & TPH as Gas (602/8020 + 8015)/MTBE | TPH as Diesel (8015) w/silica Gel Cleanup | Total Petroleum Oil & Grease (5520 E&F/B&F) | Total Petroleum Hydrocarbons (418.1) | HVOCs EPA 8260 | BTEX ONLY (EPA 602 / 8020) | EPA 608 / 8080 | EPA 608 / 8080 PCB's ONLY | EPA 624 / 8260 | EPA 625 / 8270 | PAH's / PNA's by EPA 625 / 8270 / 8310 | CAM-17 Metals | LUFT 5 Metals | Lead (7240/7421/239.2/6010) | RCI |  |  |
| SSD INF                                  |                                           |                                             |                                      | X              |                            |                |                           |                |                |                                        |               |               |                             |     |  |  |
| SVE-1 INF                                |                                           |                                             |                                      | X              |                            |                |                           |                |                |                                        |               |               |                             |     |  |  |
| SSD MID                                  |                                           |                                             |                                      | X              |                            |                |                           |                |                |                                        |               |               |                             |     |  |  |
| SVE MID                                  |                                           |                                             |                                      | X              |                            |                |                           |                |                |                                        |               |               |                             |     |  |  |
| SSD EFF                                  |                                           |                                             |                                      | X              |                            |                |                           |                |                |                                        |               |               |                             |     |  |  |
| SVE EFF                                  |                                           |                                             |                                      | X              |                            |                |                           |                |                |                                        |               |               |                             |     |  |  |

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |
| SSD INF                         |          | 1-20-14  | 1015 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |
| SVE-1 INF                       |          |          |      | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |
| SSD MID                         |          |          | 1000 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |
| SVE MID                         |          |          | 1005 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |
| SSD EFF                         |          |          | 0950 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |
| SVE EFF                         |          |          | 0945 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |

**Relinquished By:** *John Sigg*      **Date:** 3-20-14      **Time:** 1118      **Received By:** *M...*  
**Relinquished By:** \_\_\_\_\_      **Date:** \_\_\_\_\_      **Time:** \_\_\_\_\_      **Received By:** \_\_\_\_\_  
**Relinquished By:** \_\_\_\_\_      **Date:** \_\_\_\_\_      **Time:** \_\_\_\_\_      **Received By:** \_\_\_\_\_

**ICE/t°:** *N/A*      **PRESERVATION APPROPRIATE CONTAINERS:**  **PERSERVED IN LAB:** \_\_\_\_\_  
**GOOD CONDITION:** \_\_\_\_\_      **VOAS:** \_\_\_\_\_      **O&G:** \_\_\_\_\_      **METALS:** \_\_\_\_\_      **OTHER:** \_\_\_\_\_  
**HEAD SPACE ABSENT:** \_\_\_\_\_      **DECHLORINATED IN LAB:** \_\_\_\_\_





### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **3/20/2014 11:36:57 AM**  
 Project Name: **#261829; Foothill Square; 10700 MacArthur Blvd, Oakland** Login Reviewed by: **Elisa Venegas**  
 WorkOrder N°: **1403662** Matrix: Air Carrier: Client Drop-In

**Chain of Custody (COC) Information**

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
 Container/Temp Blank temperature Cooler Temp: NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 Metal - pH acceptable upon receipt (pH<2)? Yes  No  NA   
 Samples Received on Ice? Yes  No

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1404661

**Report Created for:** AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597

**Project Contact:** Jeremy Smith  
**Project P.O.:** #55469  
**Project Name:** #261829;Foothill Square

**Project Received:** 04/16/2014

Analytical Report reviewed & approved for release on 04/22/2014 by:

*Question about  
your data?*

[Click here to email  
McC Campbell](#)

Angela Rydelius,  
Laboratory Manager

***The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.***





## Glossary of Terms & Qualifier Definitions

**Client:** AEI Consultants  
**Project:** #261829;Foothill Square  
**WorkOrder:** 1404661

### Glossary

#### Abbreviation

|              |                                                                                                                                                                                                     |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 95% Interval | 95% Confident Interval                                                                                                                                                                              |
| DF           | Dilution Factor                                                                                                                                                                                     |
| DUP          | Duplicate                                                                                                                                                                                           |
| EDL          | Estimated Detection Limit                                                                                                                                                                           |
| ITEF         | International Toxicity Equivalence Factor                                                                                                                                                           |
| LCS          | Laboratory Control Sample                                                                                                                                                                           |
| MB           | Method Blank                                                                                                                                                                                        |
| MB % Rec     | % Recovery of Surrogate in Method Blank, if applicable                                                                                                                                              |
| MDL          | Method Detection Limit                                                                                                                                                                              |
| MS           | Matrix Spike                                                                                                                                                                                        |
| MSD          | Matrix Spike Duplicate                                                                                                                                                                              |
| ND           | Not detected at or above the indicated MDL or RL                                                                                                                                                    |
| NR           | Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content. |
| RD           | Relative Difference                                                                                                                                                                                 |
| RL           | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)                                                                                                            |
| RPD          | Relative Percent Deviation                                                                                                                                                                          |
| RRT          | Relative Retention Time                                                                                                                                                                             |
| SPK Val      | Spike Value                                                                                                                                                                                         |
| SPKRef Val   | Spike Reference Value                                                                                                                                                                               |
| TEQ          | Toxicity Equivalence                                                                                                                                                                                |

### Analytical

#### Qualifier

H samples were analyzed out of holding time



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 4/16/14 14:59  
**Date Prepared:** 4/16/14-4/17/14

**WorkOrder:** 1404661  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SSD INF                      | 1404661-001A   | Air               | 04/16/2014 09:30 | GC28       | 89452                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| Bromoform                    | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| Bromomethane                 | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| Carbon Tetrachloride         | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| Chlorobenzene                | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| Chloroethane                 | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| Chloroform                   | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| Chloromethane                | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| Dibromochloromethane         | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 500              | 1          | 04/16/2014 17:53     |
| 1,2-Dichlorobenzene          | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| 1,3-Dichlorobenzene          | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| 1,4-Dichlorobenzene          | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| Dichlorodifluoromethane      | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| 1,1-Dichloroethane           | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| 1,1-Dichloroethene           | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| cis-1,2-Dichloroethene       | <b>270</b>     | H                 | 250              | 1          | 04/16/2014 17:53     |
| trans-1,2-Dichloroethene     | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| 1,2-Dichloropropane          | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| cis-1,3-Dichloropropene      | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| trans-1,3-Dichloropropene    | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| Freon 113                    | ND             | H                 | 500              | 1          | 04/16/2014 17:53     |
| Methylene chloride           | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 500              | 1          | 04/16/2014 17:53     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| Tetrachloroethene            | <b>2500</b>    | H                 | 250              | 1          | 04/16/2014 17:53     |
| 1,1,1-Trichloroethane        | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| 1,1,2-Trichloroethane        | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| Trichloroethene              | <b>510</b>     | H                 | 250              | 1          | 04/16/2014 17:53     |
| Trichlorofluoromethane       | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| Vinyl Chloride               | ND             | H                 | 250              | 1          | 04/16/2014 17:53     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 106            | H                 | 70-130           |            | 04/16/2014 17:53     |
| Toluene-d8                   | 102            | H                 | 70-130           |            | 04/16/2014 17:53     |
| 4-BFB                        | 96             | H                 | 70-130           |            | 04/16/2014 17:53     |

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 4/16/14 14:59  
**Date Prepared:** 4/16/14-4/17/14

**WorkOrder:** 1404661  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SVE-1 INF                    | 1404661-002A   | Air               | 04/16/2014 09:35 | GC28       | 89452                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| Bromoform                    | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| Bromomethane                 | <b>8100</b>    | H                 | 5000             | 20         | 04/17/2014 15:19     |
| Carbon Tetrachloride         | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| Chlorobenzene                | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| Chloroethane                 | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| Chloroform                   | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| Chloromethane                | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| Dibromochloromethane         | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 10,000           | 20         | 04/17/2014 15:19     |
| 1,2-Dichlorobenzene          | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| 1,3-Dichlorobenzene          | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| 1,4-Dichlorobenzene          | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| Dichlorodifluoromethane      | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| 1,1-Dichloroethane           | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| 1,1-Dichloroethene           | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| cis-1,2-Dichloroethene       | <b>75,000</b>  | H                 | 5000             | 20         | 04/17/2014 15:19     |
| trans-1,2-Dichloroethene     | <b>11,000</b>  | H                 | 5000             | 20         | 04/17/2014 15:19     |
| 1,2-Dichloropropane          | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| cis-1,3-Dichloropropene      | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| trans-1,3-Dichloropropene    | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| Freon 113                    | ND             | H                 | 10,000           | 20         | 04/17/2014 15:19     |
| Methylene chloride           | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 10,000           | 20         | 04/17/2014 15:19     |
| 1,1,1,2,2-Tetrachloroethane  | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| Tetrachloroethene            | <b>130,000</b> | H                 | 5000             | 20         | 04/17/2014 15:19     |
| 1,1,1-Trichloroethane        | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| 1,1,2-Trichloroethane        | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| Trichloroethene              | <b>45,000</b>  | H                 | 5000             | 20         | 04/17/2014 15:19     |
| Trichlorofluoromethane       | ND             | H                 | 5000             | 20         | 04/17/2014 15:19     |
| Vinyl Chloride               | <b>10,000</b>  | H                 | 5000             | 20         | 04/17/2014 15:19     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 103            | H                 | 70-130           |            | 04/17/2014 15:19     |
| Toluene-d8                   | 105            | H                 | 70-130           |            | 04/17/2014 15:19     |
| 4-BFB                        | 94             | H                 | 70-130           |            | 04/17/2014 15:19     |



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 4/16/14 14:59  
**Date Prepared:** 4/16/14-4/17/14

**WorkOrder:** 1404661  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SSD INF                      | 1404661-001A   | Air               | 04/16/2014 09:30 | GC28       | 89452                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| Bromoform                    | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| Bromomethane                 | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| Carbon Tetrachloride         | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| Chlorobenzene                | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| Chloroethane                 | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| Chloroform                   | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| Chloromethane                | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| Dibromochloromethane         | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 0.50             | 1          | 04/16/2014 17:53     |
| 1,2-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| 1,3-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| 1,4-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| Dichlorodifluoromethane      | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| 1,1-Dichloroethane           | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| 1,1-Dichloroethene           | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| cis-1,2-Dichloroethene       | <b>0.27</b>    | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| trans-1,2-Dichloroethene     | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| 1,2-Dichloropropane          | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| cis-1,3-Dichloropropene      | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| trans-1,3-Dichloropropene    | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| Freon 113                    | ND             | H                 | 0.50             | 1          | 04/16/2014 17:53     |
| Methylene chloride           | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 0.50             | 1          | 04/16/2014 17:53     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| Tetrachloroethene            | <b>2.5</b>     | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| 1,1,1-Trichloroethane        | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| 1,1,2-Trichloroethane        | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| Trichloroethene              | <b>0.51</b>    | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| Trichlorofluoromethane       | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| Vinyl Chloride               | ND             | H                 | 0.25             | 1          | 04/16/2014 17:53     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 106            | H                 | 70-130           |            | 04/16/2014 17:53     |
| Toluene-d8                   | 102            | H                 | 70-130           |            | 04/16/2014 17:53     |
| 4-BFB                        | 96             | H                 | 70-130           |            | 04/16/2014 17:53     |

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 4/16/14 14:59  
**Date Prepared:** 4/16/14-4/17/14

**WorkOrder:** 1404661  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SVE-1 INF                    | 1404661-002A   | Air               | 04/16/2014 09:35 | GC28       | 89452                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| Bromoform                    | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| Bromomethane                 | 8.1            | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| Carbon Tetrachloride         | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| Chlorobenzene                | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| Chloroethane                 | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| Chloroform                   | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| Chloromethane                | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| Dibromochloromethane         | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 10               | 20         | 04/17/2014 15:19     |
| 1,2-Dichlorobenzene          | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| 1,3-Dichlorobenzene          | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| 1,4-Dichlorobenzene          | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| Dichlorodifluoromethane      | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| 1,1-Dichloroethane           | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| 1,1-Dichloroethene           | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| cis-1,2-Dichloroethene       | 75             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| trans-1,2-Dichloroethene     | 11             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| 1,2-Dichloropropane          | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| cis-1,3-Dichloropropene      | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| trans-1,3-Dichloropropene    | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| Freon 113                    | ND             | H                 | 10               | 20         | 04/17/2014 15:19     |
| Methylene chloride           | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 10               | 20         | 04/17/2014 15:19     |
| 1,1,1,2,2-Tetrachloroethane  | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| Tetrachloroethene            | 130            | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| 1,1,1-Trichloroethane        | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| 1,1,2-Trichloroethane        | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| Trichloroethene              | 45             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| Trichlorofluoromethane       | ND             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| Vinyl Chloride               | 10             | H                 | 5.0              | 20         | 04/17/2014 15:19     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 103            | H                 | 70-130           |            | 04/17/2014 15:19     |
| Toluene-d8                   | 105            | H                 | 70-130           |            | 04/17/2014 15:19     |
| 4-BFB                        | 94             | H                 | 70-130           |            | 04/17/2014 15:19     |



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 4/17/14  
**Date Analyzed:** 4/16/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1404661  
**BatchID:** 89452  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-89452  
 1404431-005AMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 19.8       | 0.50 | 20      | -          | 98.7     | 70-130     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 18.4       | 0.50 | 20      | -          | 91.9     | 70-130     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 19.3       | 0.50 | 20      | -          | 96.3     | 70-130     |
| 1,1-Dichloroethene            | ND        | 20.7       | 0.50 | 20      | -          | 103      | 70-130     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)





# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 4/17/14  
**Date Analyzed:** 4/16/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1404661  
**BatchID:** 89452  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-89452  
 1404431-005AMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 20.4       | 0.50 | 20      | -          | 102      | 70-130     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |

### Surrogate Recovery

|                      |      |      |  |     |     |     |        |
|----------------------|------|------|--|-----|-----|-----|--------|
| Dibromofluoromethane | 26.3 | 45.6 |  | 45  | 105 | 101 | 70-130 |
| Toluene-d8           | 25.7 | 44.9 |  | 45  | 103 | 100 | 70-130 |
| 4-BFB                | 2.48 | 4.49 |  | 4.5 | 99  | 100 | 70-130 |

(Cont.)



## Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 4/17/14  
**Date Analyzed:** 4/16/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1404661  
**BatchID:** 89452  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-89452  
 1404431-005AMS/MSD

### QC Summary Report for SW8260B

| Analyte                      | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD   | RPD Limit |
|------------------------------|-----------|------------|---------|------------|---------|----------|---------------|-------|-----------|
| Chlorobenzene                | 19.8      | 19.7       | 20      | ND         | 98.8    | 98.6     | 70-130        | 0.192 | 20        |
| 1,2-Dibromoethane (EDB)      | 18.8      | 18.6       | 20      | ND         | 93.8    | 92.7     | 70-130        | 1.21  | 20        |
| 1,2-Dichloroethane (1,2-DCA) | 20.2      | 20.6       | 20      | ND         | 101     | 103      | 70-130        | 1.88  | 20        |
| 1,1-Dichloroethene           | 19.5      | 20.4       | 20      | ND         | 97.3    | 102      | 70-130        | 4.50  | 20        |
| Trichloroethene              | 20.0      | 20.6       | 20      | ND         | 99.8    | 103      | 70-130        | 2.92  | 20        |
| <b>Surrogate Recovery</b>    |           |            |         |            |         |          |               |       |           |
| Dibromofluoromethane         | 47.2      | 47.8       | 45      |            | 105     | 106      | 70-130        | 1.43  | 20        |
| Toluene-d8                   | 44.6      | 44.6       | 45      |            | 99      | 99       | 70-130        | 0     | 20        |
| 4-BFB                        | 4.28      | 4.29       | 4.5     |            | 95      | 95       | 70-130        | 0     | 20        |



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1404661

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQulS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**

Jeremy Smith  
AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597  
(925) 283-6000    FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com  
cc/3rd Party:  
PO: #55469  
ProjectNo: #261829;Foothill Square

**Bill to:**

Sara Guerin  
AEI Consultants  
2500 Camino Diablo, Ste. #200  
Walnut Creek, CA 94597  
AccountsPayable@AEIConsultants.co

**Requested TAT: 5 days**

**Date Received: 04/16/2014**

**Date Printed: 04/22/2014**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 1404661-001 | SSD INF   | Air    | 4/16/2014 9:30  | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |
| 1404661-002 | SVE-1 INF | Air    | 4/16/2014 9:35  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |           |    |              |   |  |   |  |    |  |
|----|-----------|----|--------------|---|--|---|--|----|--|
| 1  | 8010BMS_A | 2  | PREDF REPORT | 3 |  | 4 |  | 5  |  |
| 6  |           | 7  |              | 8 |  | 9 |  | 10 |  |
| 11 |           | 12 |              |   |  |   |  |    |  |

The following SamplIDs: 001A, 002A contain testgroup.

**Prepared by: Shana Carter**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS  
**Project:** #261826; Foothill Square  
**Comments:**

**QC Level:** LEVEL 2  
**Client Contact:** Jeremy Smith  
**Contact's Email:** jasmith@aeiconsultants.com

**Work Order:** 1404661  
**Date Received:** 4/16/2014

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  Fax   
 Email   
 HardCopy   
 ThirdParty   
 J-flag

| Lab ID       | Client ID | Matrix | Test Name     | Number of Containers | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT    | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|---------------|----------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1404661-001A | SSD INF   | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 4/16/2014 9:30         | 5 days |                  | <input type="checkbox"/> |        |
| 1404661-002A | SVE-1 INF | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 4/16/2014 9:35         | 5 days |                  | <input type="checkbox"/> |        |

**\* NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

**Bottle Legend:**

Tedlar = Tedlar Air Bag

1404661

**McCAMPBELL ANALYTICAL INC.**

1534 Willow Pass Road  
Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

**CHAIN OF CUSTODY RECORD**

**TURN AROUND TIME**

RUSH  
 24 HR  
 48 HR  
 72 HR  
 5 DAY

EDF Required?  Yes  No

Report To: **Jeremy Smith**      Bill To: **same**      P.O. # **55469**  
 Company: **AEI Consultants**  
 2500 Camino Diablo  
 Walnut Creek, CA 94597      E-Mail: **jasmith@aeiconsultants.com**  
 Tele: (925) 746-6000      Fax: (925) 746-6099  
 Project #: **261829**      Project Name: **Foothill Square**  
 Project Location: **10700 MacArthur Blvd, Oakland, CA**  
 Sampler Signature: *[Signature]*

**Analysis Request**      **Other**      **Comments**

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |  |  |  |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|--|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |  |  |  |
| SSD INF                         |          | 4-16-14  | 0930 | 1            | Tb              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| SVE-1 INF                       |          | ↓        | 0935 | 1            | Tb              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |

|                                             |   |
|---------------------------------------------|---|
| BTEX & TPH as Gas (602/8020 + 8015)/MTBE    |   |
| TPH as Diesel (8015) w/silica Gel Cleanup   |   |
| Total Petroleum Oil & Grease (5520 E&F/B&F) |   |
| Total Petroleum Hydrocarbons (418.1)        |   |
| HVOCs EPA 8260                              | X |
| BTEX ONLY (EPA 602 / 8020)                  |   |
| EPA 608 / 8080                              |   |
| EPA 608 / 8080 PCB's ONLY                   |   |
| EPA 624 / 8260                              |   |
| EPA 625 / 8270                              |   |
| PAH's / PNA's by EPA 625 / 8270 / 8310      |   |
| CAM-17 Metals                               |   |
| LUFT 5 Metals                               |   |
| Lead (7240/7421/239.2/6010)                 |   |
| RCI                                         |   |

Relinquished By: *[Signature]*      Date: 4-16-14      Time: 1204  
 Received By: *[Signature]*  
 Relinquished By:      Date:      Time:      Received By:  
 Relinquished By:      Date:      Time:      Received By:

ICE/t° \_\_\_\_\_      PRESERVATION \_\_\_\_\_  
 GOOD CONDITION \_\_\_\_\_      APPROPRIATE \_\_\_\_\_  
 HEAD SPACE ABSENT \_\_\_\_\_      CONTAINERS \_\_\_\_\_  
 DECHLORINATED IN LAB \_\_\_\_\_      PERSERVED IN LAB \_\_\_\_\_  
 VOAS    O&G    METALS    OTHER



### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **4/16/2014 2:59:09 PM**  
 Project Name: **#261826; Foothill Square** LogIn Reviewed by: **Shana Carter**  
 WorkOrder N°: **1404661** Matrix: Air Carrier: Client Drop-In

**Chain of Custody (COC) Information**

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
 Container/Temp Blank temperature Cooler Temp: NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 Metal - pH acceptable upon receipt (pH<2)? Yes  No  NA   
 Samples Received on Ice? Yes  No

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1405079

**Report Created for:** AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597

**Project Contact:** Jeremy Smith  
**Project P.O.:** #56432  
**Project Name:** #261829; Foothill Square

**Project Received:** 05/02/2014

Analytical Report reviewed & approved for release on 05/07/2014 by:

*Question about  
your data?*

[Click here to email  
McC Campbell](#)

Angela Rydelius,  
Laboratory Manager

***The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.***





## Glossary of Terms & Qualifier Definitions

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**WorkOrder:** 1405079

### Glossary Abbreviation

|              |                                                                                                                                                                                                     |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 95% Interval | 95% Confident Interval                                                                                                                                                                              |
| DF           | Dilution Factor                                                                                                                                                                                     |
| DUP          | Duplicate                                                                                                                                                                                           |
| EDL          | Estimated Detection Limit                                                                                                                                                                           |
| ITEF         | International Toxicity Equivalence Factor                                                                                                                                                           |
| LCS          | Laboratory Control Sample                                                                                                                                                                           |
| MB           | Method Blank                                                                                                                                                                                        |
| MB % Rec     | % Recovery of Surrogate in Method Blank, if applicable                                                                                                                                              |
| MDL          | Method Detection Limit                                                                                                                                                                              |
| ML           | Minimum Level of Quantitation                                                                                                                                                                       |
| MS           | Matrix Spike                                                                                                                                                                                        |
| MSD          | Matrix Spike Duplicate                                                                                                                                                                              |
| ND           | Not detected at or above the indicated MDL or RL                                                                                                                                                    |
| NR           | Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content. |
| RD           | Relative Difference                                                                                                                                                                                 |
| RL           | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)                                                                                                            |
| RPD          | Relative Percent Deviation                                                                                                                                                                          |
| RRT          | Relative Retention Time                                                                                                                                                                             |
| SPK Val      | Spike Value                                                                                                                                                                                         |
| SPKRef Val   | Spike Reference Value                                                                                                                                                                               |
| TEQ          | Toxicity Equivalence                                                                                                                                                                                |

### Analytical Qualifier

H samples were analyzed out of holding time





## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/2/14 12:04  
**Date Prepared:** 5/2/14-5/3/14

**WorkOrder:** 1405079  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS

| Client ID   | Lab ID              | Matrix/ExtType | Date Collected          | Instrument  | Batch ID     |
|-------------|---------------------|----------------|-------------------------|-------------|--------------|
| <b>VM-3</b> | <b>1405079-001A</b> | <b>Air</b>     | <b>05/02/2014 09:30</b> | <b>GC28</b> | <b>90026</b> |

| Analytes                 | Result        | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | ND            | H          | 500    | 2  | 05/03/2014 10:17 |
| trans-1,2-Dichloroethene | ND            | H          | 500    | 2  | 05/03/2014 10:17 |
| Tetrachloroethene        | <b>25,000</b> | H          | 500    | 2  | 05/03/2014 10:17 |
| Trichloroethene          | <b>2400</b>   | H          | 500    | 2  | 05/03/2014 10:17 |
| Vinyl Chloride           | ND            | H          | 500    | 2  | 05/03/2014 10:17 |
| Surrogates               | REC (%)       | Qualifiers | Limits |    | Date Analyzed    |
| Dibromofluoromethane     | 113           | H          | 70-130 |    | 05/03/2014 10:17 |
| Toluene-d8               | 117           | H          | 70-130 |    | 05/03/2014 10:17 |

|             |                     |            |                         |             |              |
|-------------|---------------------|------------|-------------------------|-------------|--------------|
| <b>VM-4</b> | <b>1405079-002A</b> | <b>Air</b> | <b>05/02/2014 10:30</b> | <b>GC10</b> | <b>90027</b> |
|-------------|---------------------|------------|-------------------------|-------------|--------------|

| Analytes                 | Result        | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | <b>20,000</b> | H          | 500    | 2  | 05/02/2014 21:14 |
| trans-1,2-Dichloroethene | <b>2600</b>   | H          | 500    | 2  | 05/02/2014 21:14 |
| Tetrachloroethene        | <b>23,000</b> | H          | 500    | 2  | 05/02/2014 21:14 |
| Trichloroethene          | <b>16,000</b> | H          | 500    | 2  | 05/02/2014 21:14 |
| Vinyl Chloride           | ND            | H          | 500    | 2  | 05/02/2014 21:14 |
| Surrogates               | REC (%)       | Qualifiers | Limits |    | Date Analyzed    |
| Dibromofluoromethane     | 125           | H          | 70-130 |    | 05/02/2014 21:14 |
| Toluene-d8               | 107           | H          | 70-130 |    | 05/02/2014 21:14 |

|             |                     |            |                         |             |              |
|-------------|---------------------|------------|-------------------------|-------------|--------------|
| <b>VM-5</b> | <b>1405079-003A</b> | <b>Air</b> | <b>05/02/2014 10:20</b> | <b>GC28</b> | <b>90026</b> |
|-------------|---------------------|------------|-------------------------|-------------|--------------|

| Analytes                 | Result           | Qualifiers | RL      | DF  | Date Analyzed    |
|--------------------------|------------------|------------|---------|-----|------------------|
| cis-1,2-Dichloroethene   | <b>2,500,000</b> | H          | 100,000 | 400 | 05/02/2014 22:24 |
| trans-1,2-Dichloroethene | <b>460,000</b>   | H          | 100,000 | 400 | 05/02/2014 22:24 |
| Tetrachloroethene        | <b>1,200,000</b> | H          | 100,000 | 400 | 05/02/2014 22:24 |
| Trichloroethene          | <b>2,100,000</b> | H          | 100,000 | 400 | 05/02/2014 22:24 |
| Vinyl Chloride           | <b>1,100,000</b> | H          | 100,000 | 400 | 05/02/2014 22:24 |
| Surrogates               | REC (%)          | Qualifiers | Limits  |     | Date Analyzed    |
| Dibromofluoromethane     | 113              | H          | 70-130  |     | 05/02/2014 22:24 |
| Toluene-d8               | 117              | H          | 70-130  |     | 05/02/2014 22:24 |

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/2/14 12:04  
**Date Prepared:** 5/2/14-5/3/14

**WorkOrder:** 1405079  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| VM-6      | 1405079-004A | Air            | 05/02/2014 09:50 | GC10       | 90027    |

| Analytes                 | Result  | RL     | DF | Date Analyzed    |
|--------------------------|---------|--------|----|------------------|
| cis-1,2-Dichloroethene   | 8500    | 250    | 1  | 05/02/2014 14:00 |
| trans-1,2-Dichloroethene | 1200    | 250    | 1  | 05/02/2014 14:00 |
| Tetrachloroethene        | 15,000  | 250    | 1  | 05/02/2014 14:00 |
| Trichloroethene          | 5000    | 250    | 1  | 05/02/2014 14:00 |
| Vinyl Chloride           | ND      | 250    | 1  | 05/02/2014 14:00 |
| Surrogates               | REC (%) | Limits |    |                  |
| Dibromofluoromethane     | 123     | 70-130 |    | 05/02/2014 14:00 |
| Toluene-d8               | 107     | 70-130 |    | 05/02/2014 14:00 |

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| VM-7      | 1405079-005A | Air            | 05/02/2014 09:10 | GC28       | 90026    |

| Analytes                 | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | ND      | H          | 250    | 1  | 05/03/2014 10:56 |
| trans-1,2-Dichloroethene | ND      | H          | 250    | 1  | 05/03/2014 10:56 |
| Tetrachloroethene        | 16,000  | H          | 250    | 1  | 05/03/2014 10:56 |
| Trichloroethene          | 6300    | H          | 250    | 1  | 05/03/2014 10:56 |
| Vinyl Chloride           | ND      | H          | 250    | 1  | 05/03/2014 10:56 |
| Surrogates               | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 114     | H          | 70-130 |    | 05/03/2014 10:56 |
| Toluene-d8               | 115     | H          | 70-130 |    | 05/03/2014 10:56 |

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| VM-8      | 1405079-006A | Air            | 05/02/2014 10:50 | GC10       | 90027    |

| Analytes                 | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | 14,000  | H          | 1000   | 4  | 05/02/2014 21:56 |
| trans-1,2-Dichloroethene | 1800    | H          | 1000   | 4  | 05/02/2014 21:56 |
| Tetrachloroethene        | 29,000  | H          | 1000   | 4  | 05/02/2014 21:56 |
| Trichloroethene          | 16,000  | H          | 1000   | 4  | 05/02/2014 21:56 |
| Vinyl Chloride           | ND      | H          | 1000   | 4  | 05/02/2014 21:56 |
| Surrogates               | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 122     | H          | 70-130 |    | 05/02/2014 21:56 |
| Toluene-d8               | 107     | H          | 70-130 |    | 05/02/2014 21:56 |

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## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/2/14 12:04  
**Date Prepared:** 5/2/14-5/3/14

**WorkOrder:** 1405079  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS

| Client ID   | Lab ID              | Matrix/ExtType | Date Collected          | Instrument  | Batch ID     |
|-------------|---------------------|----------------|-------------------------|-------------|--------------|
| <b>VM-9</b> | <b>1405079-007A</b> | <b>Air</b>     | <b>05/02/2014 08:30</b> | <b>GC28</b> | <b>90026</b> |

| Analytes                 | Result           | Qualifiers | RL      | DF  | Date Analyzed    |
|--------------------------|------------------|------------|---------|-----|------------------|
| cis-1,2-Dichloroethene   | <b>470,000</b>   | H          | 100,000 | 400 | 05/03/2014 09:39 |
| trans-1,2-Dichloroethene | ND               | H          | 100,000 | 400 | 05/03/2014 09:39 |
| Tetrachloroethene        | <b>3,400,000</b> | H          | 100,000 | 400 | 05/03/2014 09:39 |
| Trichloroethene          | <b>1,200,000</b> | H          | 100,000 | 400 | 05/03/2014 09:39 |
| Vinyl Chloride           | ND               | H          | 100,000 | 400 | 05/03/2014 09:39 |
| Surrogates               | REC (%)          | Qualifiers | Limits  |     |                  |
| Dibromofluoromethane     | 114              | H          | 70-130  |     | 05/03/2014 09:39 |
| Toluene-d8               | 117              | H          | 70-130  |     | 05/03/2014 09:39 |

| Client ID   | Lab ID              | Matrix/ExtType | Date Collected          | Instrument  | Batch ID     |
|-------------|---------------------|----------------|-------------------------|-------------|--------------|
| <b>SS-1</b> | <b>1405079-008A</b> | <b>Air</b>     | <b>05/02/2014 08:00</b> | <b>GC10</b> | <b>90027</b> |

| Analytes                 | Result      | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|-------------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | <b>1200</b> | H          | 250    | 1  | 05/03/2014 09:46 |
| trans-1,2-Dichloroethene | ND          | H          | 250    | 1  | 05/03/2014 09:46 |
| Tetrachloroethene        | <b>9900</b> | H          | 250    | 1  | 05/03/2014 09:46 |
| Trichloroethene          | <b>1600</b> | H          | 250    | 1  | 05/03/2014 09:46 |
| Vinyl Chloride           | ND          | H          | 250    | 1  | 05/03/2014 09:46 |
| Surrogates               | REC (%)     | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 121         | H          | 70-130 |    | 05/03/2014 09:46 |
| Toluene-d8               | 106         | H          | 70-130 |    | 05/03/2014 09:46 |

| Client ID   | Lab ID              | Matrix/ExtType | Date Collected          | Instrument  | Batch ID     |
|-------------|---------------------|----------------|-------------------------|-------------|--------------|
| <b>SS-2</b> | <b>1405079-009A</b> | <b>Air</b>     | <b>05/02/2014 10:10</b> | <b>GC28</b> | <b>90026</b> |

| Analytes                 | Result      | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|-------------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | ND          | H          | 250    | 1  | 05/03/2014 12:51 |
| trans-1,2-Dichloroethene | ND          | H          | 250    | 1  | 05/03/2014 12:51 |
| Tetrachloroethene        | <b>2500</b> | H          | 250    | 1  | 05/03/2014 12:51 |
| Trichloroethene          | ND          | H          | 250    | 1  | 05/03/2014 12:51 |
| Vinyl Chloride           | ND          | H          | 250    | 1  | 05/03/2014 12:51 |
| Surrogates               | REC (%)     | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 114         | H          | 70-130 |    | 05/03/2014 12:51 |
| Toluene-d8               | 117         | H          | 70-130 |    | 05/03/2014 12:51 |

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/2/14 12:04  
**Date Prepared:** 5/2/14-5/3/14

**WorkOrder:** 1405079  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SS-3      | 1405079-010A | Air            | 05/02/2014 09:20 | GC10       | 90027    |

| Analytes                 | Result        | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | ND            | H          | 1000   | 4  | 05/02/2014 22:38 |
| trans-1,2-Dichloroethene | ND            | H          | 1000   | 4  | 05/02/2014 22:38 |
| Tetrachloroethene        | <b>30,000</b> | H          | 1000   | 4  | 05/02/2014 22:38 |
| Trichloroethene          | <b>3900</b>   | H          | 1000   | 4  | 05/02/2014 22:38 |
| Vinyl Chloride           | ND            | H          | 1000   | 4  | 05/02/2014 22:38 |
| Surrogates               | REC (%)       | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 122           | H          | 70-130 |    | 05/02/2014 22:38 |
| Toluene-d8               | 108           | H          | 70-130 |    | 05/02/2014 22:38 |

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SS-4      | 1405079-011A | Air            | 05/02/2014 10:40 | GC10       | 90027    |

| Analytes                 | Result        | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | ND            | H          | 250    | 1  | 05/02/2014 16:55 |
| trans-1,2-Dichloroethene | ND            | H          | 250    | 1  | 05/02/2014 16:55 |
| Tetrachloroethene        | <b>19,000</b> | H          | 250    | 1  | 05/02/2014 16:55 |
| Trichloroethene          | <b>1200</b>   | H          | 250    | 1  | 05/02/2014 16:55 |
| Vinyl Chloride           | ND            | H          | 250    | 1  | 05/02/2014 16:55 |
| Surrogates               | REC (%)       | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 126           | H          | 70-130 |    | 05/02/2014 16:55 |
| Toluene-d8               | 107           | H          | 70-130 |    | 05/02/2014 16:55 |

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SS-6      | 1405079-013A | Air            | 05/02/2014 09:40 | GC28       | 90026    |

| Analytes                 | Result        | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | ND            | H          | 500    | 2  | 05/03/2014 11:34 |
| trans-1,2-Dichloroethene | ND            | H          | 500    | 2  | 05/03/2014 11:34 |
| Tetrachloroethene        | <b>20,000</b> | H          | 500    | 2  | 05/03/2014 11:34 |
| Trichloroethene          | <b>1400</b>   | H          | 500    | 2  | 05/03/2014 11:34 |
| Vinyl Chloride           | ND            | H          | 500    | 2  | 05/03/2014 11:34 |
| Surrogates               | REC (%)       | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 113           | H          | 70-130 |    | 05/03/2014 11:34 |
| Toluene-d8               | 116           | H          | 70-130 |    | 05/03/2014 11:34 |

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/2/14 12:04  
**Date Prepared:** 5/2/14-5/3/14

**WorkOrder:** 1405079  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS

| Client ID   | Lab ID              | Matrix/ExtType | Date Collected          | Instrument  | Batch ID     |
|-------------|---------------------|----------------|-------------------------|-------------|--------------|
| <b>SS-7</b> | <b>1405079-014A</b> | <b>Air</b>     | <b>05/02/2014 09:00</b> | <b>GC10</b> | <b>90027</b> |

| <u>Analytes</u>          | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>     | <u>DF</u> | <u>Date Analyzed</u> |
|--------------------------|----------------|-------------------|---------------|-----------|----------------------|
| cis-1,2-Dichloroethene   | ND             | H                 | 250           | 1         | 05/02/2014 17:37     |
| trans-1,2-Dichloroethene | ND             | H                 | 250           | 1         | 05/02/2014 17:37     |
| Tetrachloroethene        | <b>4800</b>    | H                 | 250           | 1         | 05/02/2014 17:37     |
| Trichloroethene          | <b>300</b>     | H                 | 250           | 1         | 05/02/2014 17:37     |
| Vinyl Chloride           | ND             | H                 | 250           | 1         | 05/02/2014 17:37     |
| <u>Surrogates</u>        | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> |           | <u>Date Analyzed</u> |
| Dibromofluoromethane     | 123            | H                 | 70-130        |           | 05/02/2014 17:37     |
| Toluene-d8               | 107            | H                 | 70-130        |           | 05/02/2014 17:37     |

|             |                     |            |                         |             |              |
|-------------|---------------------|------------|-------------------------|-------------|--------------|
| <b>SS-8</b> | <b>1405079-015A</b> | <b>Air</b> | <b>05/02/2014 10:45</b> | <b>GC28</b> | <b>90026</b> |
|-------------|---------------------|------------|-------------------------|-------------|--------------|

| <u>Analytes</u>          | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>     | <u>DF</u> | <u>Date Analyzed</u> |
|--------------------------|----------------|-------------------|---------------|-----------|----------------------|
| cis-1,2-Dichloroethene   | ND             | H                 | 250           | 1         | 05/02/2014 17:52     |
| trans-1,2-Dichloroethene | ND             | H                 | 250           | 1         | 05/02/2014 17:52     |
| Tetrachloroethene        | <b>15,000</b>  | H                 | 250           | 1         | 05/02/2014 17:52     |
| Trichloroethene          | <b>1000</b>    | H                 | 250           | 1         | 05/02/2014 17:52     |
| Vinyl Chloride           | ND             | H                 | 250           | 1         | 05/02/2014 17:52     |
| <u>Surrogates</u>        | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> |           | <u>Date Analyzed</u> |
| Dibromofluoromethane     | 114            | H                 | 70-130        |           | 05/02/2014 17:52     |
| Toluene-d8               | 117            | H                 | 70-130        |           | 05/02/2014 17:52     |

|             |                     |            |                         |             |              |
|-------------|---------------------|------------|-------------------------|-------------|--------------|
| <b>SS-9</b> | <b>1405079-016A</b> | <b>Air</b> | <b>05/02/2014 08:20</b> | <b>GC10</b> | <b>90027</b> |
|-------------|---------------------|------------|-------------------------|-------------|--------------|

| <u>Analytes</u>          | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>     | <u>DF</u> | <u>Date Analyzed</u> |
|--------------------------|----------------|-------------------|---------------|-----------|----------------------|
| cis-1,2-Dichloroethene   | <b>370</b>     | H                 | 250           | 1         | 05/02/2014 18:19     |
| trans-1,2-Dichloroethene | ND             | H                 | 250           | 1         | 05/02/2014 18:19     |
| Tetrachloroethene        | <b>4700</b>    | H                 | 250           | 1         | 05/02/2014 18:19     |
| Trichloroethene          | <b>610</b>     | H                 | 250           | 1         | 05/02/2014 18:19     |
| Vinyl Chloride           | ND             | H                 | 250           | 1         | 05/02/2014 18:19     |
| <u>Surrogates</u>        | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> |           | <u>Date Analyzed</u> |
| Dibromofluoromethane     | 122            | H                 | 70-130        |           | 05/02/2014 18:19     |
| Toluene-d8               | 108            | H                 | 70-130        |           | 05/02/2014 18:19     |

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/2/14 12:04  
**Date Prepared:** 5/2/14-5/3/14

**WorkOrder:** 1405079  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SS-10     | 1405079-017A | Air            | 05/02/2014 10:00 | GC28       | 90026    |

| Analytes                 | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | 2800    | H          | 500    | 2  | 05/03/2014 12:13 |
| trans-1,2-Dichloroethene | ND      | H          | 500    | 2  | 05/03/2014 12:13 |
| Tetrachloroethene        | 23,000  | H          | 500    | 2  | 05/03/2014 12:13 |
| Trichloroethene          | 7300    | H          | 500    | 2  | 05/03/2014 12:13 |
| Vinyl Chloride           | ND      | H          | 500    | 2  | 05/03/2014 12:13 |
| Surrogates               | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 113     | H          | 70-130 |    | 05/03/2014 12:13 |
| Toluene-d8               | 117     | H          | 70-130 |    | 05/03/2014 12:13 |

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD-INF   | 1405079-018A | Air            | 05/02/2014 07:30 | GC28       | 90026    |

| Analytes                 | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | ND      | H          | 250    | 1  | 05/03/2014 13:29 |
| trans-1,2-Dichloroethene | ND      | H          | 250    | 1  | 05/03/2014 13:29 |
| Tetrachloroethene        | 1800    | H          | 250    | 1  | 05/03/2014 13:29 |
| Trichloroethene          | 320     | H          | 250    | 1  | 05/03/2014 13:29 |
| Vinyl Chloride           | ND      | H          | 250    | 1  | 05/03/2014 13:29 |
| Surrogates               | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 116     | H          | 70-130 |    | 05/03/2014 13:29 |
| Toluene-d8               | 116     | H          | 70-130 |    | 05/03/2014 13:29 |

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-1 INF | 1405079-019A | Air            | 05/02/2014 07:45 | GC10       | 90027    |

| Analytes                 | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | 38,000  | H          | 2500   | 10 | 05/02/2014 23:19 |
| trans-1,2-Dichloroethene | 5000    | H          | 2500   | 10 | 05/02/2014 23:19 |
| Tetrachloroethene        | 75,000  | H          | 2500   | 10 | 05/02/2014 23:19 |
| Trichloroethene          | 25,000  | H          | 2500   | 10 | 05/02/2014 23:19 |
| Vinyl Chloride           | ND      | H          | 2500   | 10 | 05/02/2014 23:19 |
| Surrogates               | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 123     | H          | 70-130 |    | 05/02/2014 23:19 |
| Toluene-d8               | 107     | H          | 70-130 |    | 05/02/2014 23:19 |



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 5/5/14  
**Date Analyzed:** 5/2/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1405079  
**BatchID:** 90026  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-90026  
 1405053-007AMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 21.8       | 0.50 | 20      | -          | 109      | 70-130     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 21.4       | 0.50 | 20      | -          | 107      | 70-130     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 19.1       | 0.50 | 20      | -          | 95.7     | 70-130     |
| 1,1-Dichloroethene            | ND        | 20.7       | 0.50 | 20      | -          | 103      | 70-130     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 5/5/14  
**Date Analyzed:** 5/2/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1405079  
**BatchID:** 90026  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-90026  
 1405053-007AMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 21.5       | 0.50 | 20      | -          | 108      | 70-130     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |
| <b>Surrogate Recovery</b>     |           |            |      |         |            |          |            |
| Dibromofluoromethane          | 28.6      | 50.9       |      | 45      | 114        | 113      | 70-130     |
| Toluene-d8                    | 29.3      | 52.1       |      | 45      | 117        | 116      | 70-130     |
| 4-BFB                         | 2.61      | 4.55       |      | 4.5     | 104        | 101      | 70-130     |

(Cont.)





## Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 5/5/14  
**Date Analyzed:** 5/2/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1405079  
**BatchID:** 90026  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-90026  
 1405053-007AMS/MSD

### QC Summary Report for SW8260B

| Analyte                      | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD   | RPD Limit |
|------------------------------|-----------|------------|---------|------------|---------|----------|---------------|-------|-----------|
| Chlorobenzene                | 22.3      | 21.4       | 20      | ND         | 111     | 107      | 70-130        | 4.17  | 20        |
| 1,2-Dibromoethane (EDB)      | 22.4      | 21.7       | 20      | ND         | 112     | 108      | 70-130        | 3.01  | 20        |
| 1,2-Dichloroethane (1,2-DCA) | 20.4      | 19.5       | 20      | ND         | 102     | 97.6     | 70-130        | 4.18  | 20        |
| 1,1-Dichloroethene           | 20.6      | 20.1       | 20      | ND         | 103     | 101      | 70-130        | 2.27  | 20        |
| Trichloroethene              | 21.8      | 21.2       | 20      | ND         | 109     | 106      | 70-130        | 2.50  | 20        |
| <b>Surrogate Recovery</b>    |           |            |         |            |         |          |               |       |           |
| Dibromofluoromethane         | 52.0      | 51.6       | 45      |            | 116     | 115      | 70-130        | 0.876 | 20        |
| Toluene-d8                   | 52.2      | 51.1       | 45      |            | 116     | 114      | 70-130        | 2.12  | 20        |
| 4-BFB                        | 4.42      | 4.38       | 4.5     |            | 98      | 97       | 70-130        | 0.764 | 20        |



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 5/5/14  
**Date Analyzed:** 5/2/14  
**Instrument:** GC10  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1405079  
**BatchID:** 90027  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-90027

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 20.5       | 0.50 | 20      | -          | 103      | 70-130     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 20.3       | 0.50 | 20      | -          | 102      | 70-130     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 19.1       | 0.50 | 20      | -          | 95.5     | 70-130     |
| 1,1-Dichloroethene            | ND        | 20.5       | 0.50 | 20      | -          | 102      | 70-130     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 5/5/14  
**Date Analyzed:** 5/2/14  
**Instrument:** GC10  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1405079  
**BatchID:** 90027  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-90027

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 21.0       | 0.50 | 20      | -          | 105      | 70-130     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |
| <b>Surrogate Recovery</b>     |           |            |      |         |            |          |            |
| Dibromofluoromethane          | 29.8      | 51.5       |      | 45      | 119        | 114      | 70-130     |
| Toluene-d8                    | 27.0      | 45.7       |      | 45      | 108        | 102      | 70-130     |
| 4-BFB                         | 2.55      | 4.44       |      | 4.5     | 102        | 99       | 70-130     |



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1405079

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQUS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**  
 Jeremy Smith  
 AEI Consultants  
 2500 Camino Diablo, Ste.#200  
 Walnut Creek, CA 94597  
 (408) 559-7600    FAX: (408) 559-7601

Email: jasmith@aeiconsultants.com  
 cc/3rd Party:  
 PO: #56432  
 ProjectNo: #261829; Foothill Square

**Bill to:**  
 Sara Guerin  
 AEI Consultants  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597  
 AccountsPayable@AEIConsultants.co

**Requested TAT: 5 days**  
  
**Date Received: 05/02/2014**  
**Date Printed: 05/08/2014**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1405079-001 | VM-3      | Air    | 5/2/2014 9:30   | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |
| 1405079-002 | VM-4      | Air    | 5/2/2014 10:30  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-003 | VM-5      | Air    | 5/2/2014 10:20  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-004 | VM-6      | Air    | 5/2/2014 9:50   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-005 | VM-7      | Air    | 5/2/2014 9:10   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-006 | VM-8      | Air    | 5/2/2014 10:50  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-007 | VM-9      | Air    | 5/2/2014 8:30   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-008 | SS-1      | Air    | 5/2/2014 8:00   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-009 | SS-2      | Air    | 5/2/2014 10:10  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-010 | SS-3      | Air    | 5/2/2014 9:20   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-011 | SS-4      | Air    | 5/2/2014 10:40  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-013 | SS-6      | Air    | 5/2/2014 9:40   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-014 | SS-7      | Air    | 5/2/2014 9:00   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-015 | SS-8      | Air    | 5/2/2014 10:45  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-016 | SS-9      | Air    | 5/2/2014 8:20   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |
| 1405079-017 | SS-10     | Air    | 5/2/2014 10:00  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |

**Test Legend:**

|    |           |    |              |   |  |   |  |    |  |
|----|-----------|----|--------------|---|--|---|--|----|--|
| 1  | 8010BMS_A | 2  | PREDF REPORT | 3 |  | 4 |  | 5  |  |
| 6  |           | 7  |              | 8 |  | 9 |  | 10 |  |
| 11 |           | 12 |              |   |  |   |  |    |  |

The following SamplIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 013A, 014A, 015A, 016A, 017A, 018A, 019A contain testgroup.

**Prepared by: Maria Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1405079

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQuIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**

Jeremy Smith  
AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597  
(408) 559-7600    FAX: (408) 559-7601

Email: jasmith@aeiconsultants.com  
cc/3rd Party:  
PO: #56432  
ProjectNo: #261829; Foothill Square

**Bill to:**

Sara Guerin  
AEI Consultants  
2500 Camino Diablo, Ste. #200  
Walnut Creek, CA 94597  
AccountsPayable@AEIConsultants.co

**Requested TAT:**

**5 days**

**Date Received: 05/02/2014**

**Date Printed: 05/08/2014**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 1405079-018 | SSD-INF   | Air    | 5/2/2014 7:30   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1405079-019 | SVE-1 INF | Air    | 5/2/2014 7:45   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |           |    |              |   |  |   |  |    |  |
|----|-----------|----|--------------|---|--|---|--|----|--|
| 1  | 8010BMS_A | 2  | PREDF REPORT | 3 |  | 4 |  | 5  |  |
| 6  |           | 7  |              | 8 |  | 9 |  | 10 |  |
| 11 |           | 12 |              |   |  |   |  |    |  |

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 013A, 014A, 015A, 016A, 017A, 018A, 019A contain testgroup.

**Prepared by: Maria Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS  
**Project:** #261829; Foothill Square  
**Comments:**

**QC Level:** LEVEL 2  
**Client Contact:** Jeremy Smith  
**Contact's Email:** jasmith@aeiconsultants.com

**Work Order:** 1405079  
**Date Received:** 5/2/2014

WaterTrax     WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

| Lab ID       | Client ID | Matrix | Test Name     | Number of Containers | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT    | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|---------------|----------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1405079-001A | VM-3      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 9:30          | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-002A | VM-4      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 10:30         | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-003A | VM-5      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 10:20         | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-004A | VM-6      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 9:50          | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-005A | VM-7      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 9:10          | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-006A | VM-8      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 10:50         | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-007A | VM-9      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 8:30          | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-008A | SS-1      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 8:00          | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-009A | SS-2      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 10:10         | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-010A | SS-3      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 9:20          | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-011A | SS-4      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 10:40         | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-012A | SS-5      | Air    |               | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 10:15         |        |                  | <input type="checkbox"/> |        |
| 1405079-013A | SS-6      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 9:40          | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-014A | SS-7      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 9:00          | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-015A | SS-8      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 10:45         | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-016A | SS-9      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 8:20          | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-017A | SS-10     | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 10:00         | 5 days |                  | <input type="checkbox"/> |        |

**\* NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

**Bottle Legend:**

Tedlar = Tedlar Air Bag



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS  
**Project:** #261829; Foothill Square  
**Comments:**

**QC Level:** LEVEL 2  
**Client Contact:** Jeremy Smith  
**Contact's Email:** jasmith@aeiconsultants.com

**Work Order:** 1405079  
**Date Received:** 5/2/2014

WaterTrax     WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

| Lab ID       | Client ID | Matrix | Test Name     | Number of Containers | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT    | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|---------------|----------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1405079-018A | SSD-INF   | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 7:30          | 5 days |                  | <input type="checkbox"/> |        |
| 1405079-019A | SVE-1 INF | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/2/2014 7:45          | 5 days |                  | <input type="checkbox"/> |        |

**\* NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

**Bottle Legend:**

Tedlar = Tedlar Air Bag

1405079

**McCAMPBELL ANALYTICAL INC.**

1534 Willow Pass Road  
Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

**CHAIN OF CUSTODY RECORD**

TURN AROUND TIME

RUSH  24 HR  48 HR  72 HR  5 DAY

EDF Required?  Yes  No

Report To: Jeremy Smith      Bill To: same      P.O. # 56432

Company: AEI Consultants

2500 Camino Diablo

Walnut Creek, CA 94597

E-Mail: jasmith@aeiconsultants.com

Tele: (925) 746-6000

Fax: (925) 746-6099

Project #: 261829

Project Name: Foothill Square

Project Location: 10700 MacArthur Blvd., Oakland, California

Sampler Signature: *John Sagg*

Analysis Request

Other

Comments

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |  |  |  |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|--|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |  |  |  |
| <del>VM-1</del>                 |          | 5-2-14   |      | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| <del>VM-2</del>                 |          |          |      | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| VM-3                            |          |          | 0930 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| VM-4                            |          |          | 1030 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| VM-5                            |          |          | 1020 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| VM-6                            |          |          | 0950 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| VM-7                            |          |          | 0910 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| VM-8                            |          |          | 1050 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| * VM-9                          |          |          | 0830 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| + <del>VM-10</del>              |          |          |      | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| SS-1                            |          |          | 0800 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| SS-2                            |          |          | 1010 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| SS-3                            |          |          | 0920 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |

|                   |                                             |                            |                                  |                                                 |                                            |                 |                           |                                              |                        |                                        |                       |                                       |                               |                                      |      |  |  |  |  |
|-------------------|---------------------------------------------|----------------------------|----------------------------------|-------------------------------------------------|--------------------------------------------|-----------------|---------------------------|----------------------------------------------|------------------------|----------------------------------------|-----------------------|---------------------------------------|-------------------------------|--------------------------------------|------|--|--|--|--|
| BTEX / MTBE 8021B | TPH Multi-Range (8015) w/silica Gel Cleanup | TPHg Using EPA Method 8015 | TPHg / TPHd 8015 with Silica Gel | TPH as Hydraulic Oil w/ Silica Gel Cleanup 8015 | Benzene, Ethylbenzene, Naphthalene ( 8260) | Nitrate/Nitrite | EPA 608 / 8080 PCB's ONLY | HVOCs 8260, PCE, TCE, cis/trans, 1,2 DCE, VC | SVOCs (with PAHs) 8270 | PAH's / PNA's by EPA 625 / 8270 / 8310 | CAM-17 Metals by 6010 | CAM -17 Metals by E200.8 (Dissolved). | OC Pesticides EPA Method 8081 | OC Acidic Herbicides EPA Method 8151 | HOLD |  |  |  |  |
|-------------------|---------------------------------------------|----------------------------|----------------------------------|-------------------------------------------------|--------------------------------------------|-----------------|---------------------------|----------------------------------------------|------------------------|----------------------------------------|-----------------------|---------------------------------------|-------------------------------|--------------------------------------|------|--|--|--|--|

|                                   |              |            |                                |
|-----------------------------------|--------------|------------|--------------------------------|
| Relinquished By: <i>John Sagg</i> | Date: 5-2-14 | Time: 1155 | Received By: <i>Thomas 2-6</i> |
| Relinquished By:                  | Date:        | Time:      | Received By:                   |
| Relinquished By:                  | Date:        | Time:      | Received By:                   |

|                            |                        |     |        |       |
|----------------------------|------------------------|-----|--------|-------|
| ICE/t° <i>NA</i>           | VOAS                   | O&G | METALS | OTHER |
| GOOD CONDITION _____       | PRESERVATION _____     |     |        |       |
| HEAD SPACE ABSENT _____    | APPROPRIATE _____      |     |        |       |
| DECHLORINATED IN LAB _____ | CONTAINERS _____       |     |        |       |
|                            | PERSERVED IN LAB _____ |     |        |       |

\* VM-9B + Bag Labeled Vm1



**McCAMPBELL ANALYTICAL INC.**

1534 Willow Pass Road  
Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

**CHAIN OF CUSTODY RECORD**

TURN AROUND TIME

RUSH   
  24 HR   
  48 HR   
  72 HR   
  5 DAY

EDF Required?  Yes     No

**Report To:** Jeremy Smith    **Bill To:** same    **P.O. #**  
**Company:** AEI Consultants  
**2500 Camino Diablo**  
**Walnut Creek, CA 94597**    **E-Mail:** jasmith@aeiconsultants.com  
**Tele:** (925) 746-6000    **Fax:** (925) 746-6099  
**Project #:** 261829    **Project Name:** Foothill Square  
**Project Location:** 10700 MacArthur Blvd., Oakland, California  
**Sampler Signature:** *J. Smith*

| Analysis Request         |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          | Other                    | Comments |  |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | HOLD     |  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |  |

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |                            |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|----------------------------|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |                            |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |                            |
| SS-4                            |          | 5-2-14   | 1040 | 1            | TB              |        |      |     |        |       |                  |     |                  |       | X                          |
| SS-5                            |          |          | 1015 | 1            | TB              |        |      |     |        |       |                  |     |                  |       | ⓧ Not enough sample to run |
| SS-6                            |          |          | 0940 | 1            | TB              |        |      |     |        |       |                  |     |                  |       | X                          |
| SS-7                            |          |          | 0900 | 1            | TB              |        |      |     |        |       |                  |     |                  |       | X                          |
| SS-8                            |          |          | 1045 | 1            | TB              |        |      |     |        |       |                  |     |                  |       | X                          |
| SS-9                            |          |          | 0820 | 1            | TB              |        |      |     |        |       |                  |     |                  |       | X                          |
| SS-10                           |          |          | 1000 | 1            | TB              |        |      |     |        |       |                  |     |                  |       | X                          |
| SSD-INF                         |          |          | 0730 | 1            | TB              |        |      |     |        |       |                  |     |                  |       | X                          |
| SVE-1 INF                       |          |          | 0745 | 1            | TB              |        |      |     |        |       |                  |     |                  |       | X                          |

|                                         |                     |                   |                                        |
|-----------------------------------------|---------------------|-------------------|----------------------------------------|
| <b>Relinquished By:</b> <i>J. Smith</i> | <b>Date:</b> 5-2-14 | <b>Time:</b> 1155 | <b>Received By:</b> <i>[Signature]</i> |
| <b>Relinquished By:</b>                 | <b>Date:</b>        | <b>Time:</b>      | <b>Received By:</b>                    |
| <b>Relinquished By:</b>                 | <b>Date:</b>        | <b>Time:</b>      | <b>Received By:</b>                    |

ICE/t° \_\_\_\_\_    **PRESERVATION** \_\_\_\_\_  
 GOOD CONDITION \_\_\_\_\_    **APPROPRIATE** \_\_\_\_\_  
 HEAD SPACE ABSENT \_\_\_\_\_    **CONTAINERS** \_\_\_\_\_  
 DECHLORINATED IN LAB \_\_\_\_\_    **PERSERVED IN LAB** \_\_\_\_\_

VOAS \_\_\_\_\_    O&G \_\_\_\_\_    METALS \_\_\_\_\_    OTHER \_\_\_\_\_

\* VM-9A



### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **5/2/2014 12:04:05 PM**  
 Project Name: **#261829; Foothill Square** LogIn Reviewed by: **Maria Venegas**  
 WorkOrder N°: **1405079** Matrix: Air Carrier: Client Drop-In

**Chain of Custody (COC) Information**

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
 Container/Temp Blank temperature Cooler Temp: NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 pH acceptable upon receipt (Metal: pH<2; 522: pH<4)? Yes  No  NA   
 Samples Received on Ice? Yes  No

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments: There was not enough sample for SS-5 to run analysis



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1405359

**Report Created for:** AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597

**Project Contact:** Jeremy Smith  
**Project P.O.:** #56961  
**Project Name:** #261829; Foothill Square

**Project Received:** 05/09/2014

Analytical Report reviewed & approved for release on 05/15/2014 by:

Question about  
your data?

[Click here to email  
McC Campbell](#)

Angela Rydelius,  
Laboratory Manager

***The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.***





## Glossary of Terms & Qualifier Definitions

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**WorkOrder:** 1405359

### Glossary Abbreviation

|              |                                                                                                                                                                                                     |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 95% Interval | 95% Confident Interval                                                                                                                                                                              |
| DF           | Dilution Factor                                                                                                                                                                                     |
| DUP          | Duplicate                                                                                                                                                                                           |
| EDL          | Estimated Detection Limit                                                                                                                                                                           |
| ITEF         | International Toxicity Equivalence Factor                                                                                                                                                           |
| LCS          | Laboratory Control Sample                                                                                                                                                                           |
| MB           | Method Blank                                                                                                                                                                                        |
| MB % Rec     | % Recovery of Surrogate in Method Blank, if applicable                                                                                                                                              |
| MDL          | Method Detection Limit                                                                                                                                                                              |
| ML           | Minimum Level of Quantitation                                                                                                                                                                       |
| MS           | Matrix Spike                                                                                                                                                                                        |
| MSD          | Matrix Spike Duplicate                                                                                                                                                                              |
| ND           | Not detected at or above the indicated MDL or RL                                                                                                                                                    |
| NR           | Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content. |
| RD           | Relative Difference                                                                                                                                                                                 |
| RL           | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)                                                                                                            |
| RPD          | Relative Percent Deviation                                                                                                                                                                          |
| RRT          | Relative Retention Time                                                                                                                                                                             |
| SPK Val      | Spike Value                                                                                                                                                                                         |
| SPKRef Val   | Spike Reference Value                                                                                                                                                                               |
| TEQ          | Toxicity Equivalence                                                                                                                                                                                |



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/9/14 11:07  
**Date Prepared:** 5/9/14

**WorkOrder:** 1405359  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS

| Client ID                | Lab ID         | Matrix/ExtType | Date Collected   | Instrument | Batch ID             |
|--------------------------|----------------|----------------|------------------|------------|----------------------|
| SS-5                     | 1405359-001A   | Air            | 05/09/2014 10:10 | GC28       | 90306                |
| <u>Analytes</u>          | <u>Result</u>  |                | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| cis-1,2-Dichloroethene   | ND             |                | 250              | 1          | 05/09/2014 14:06     |
| trans-1,2-Dichloroethene | ND             |                | 250              | 1          | 05/09/2014 14:06     |
| Tetrachloroethene        | ND             |                | 250              | 1          | 05/09/2014 14:06     |
| Trichloroethene          | ND             |                | 250              | 1          | 05/09/2014 14:06     |
| Vinyl Chloride           | ND             |                | 250              | 1          | 05/09/2014 14:06     |
| <u>Surrogates</u>        | <u>REC (%)</u> |                | <u>Limits</u>    |            |                      |
| Dibromofluoromethane     | 93             |                | 70-130           |            | 05/09/2014 14:06     |
| Toluene-d8               | 110            |                | 70-130           |            | 05/09/2014 14:06     |
| 4-BFB                    | 110            |                | 70-130           |            | 05/09/2014 14:06     |



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/9/14 11:07  
**Date Prepared:** 5/9/14

**WorkOrder:** 1405359  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS

| Client ID                | Lab ID         | Matrix/ExtType | Date Collected   | Instrument | Batch ID             |
|--------------------------|----------------|----------------|------------------|------------|----------------------|
| SS-5                     | 1405359-001A   | Air            | 05/09/2014 10:10 | GC28       | 90306                |
| <u>Analytes</u>          | <u>Result</u>  |                | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| cis-1,2-Dichloroethene   | ND             |                | 0.25             | 1          | 05/09/2014 14:06     |
| trans-1,2-Dichloroethene | ND             |                | 0.25             | 1          | 05/09/2014 14:06     |
| Tetrachloroethene        | ND             |                | 0.25             | 1          | 05/09/2014 14:06     |
| Trichloroethene          | ND             |                | 0.25             | 1          | 05/09/2014 14:06     |
| Vinyl Chloride           | ND             |                | 0.25             | 1          | 05/09/2014 14:06     |
| <u>Surrogates</u>        | <u>REC (%)</u> |                | <u>Limits</u>    |            |                      |
| Dibromofluoromethane     | 93             |                | 70-130           |            | 05/09/2014 14:06     |
| Toluene-d8               | 110            |                | 70-130           |            | 05/09/2014 14:06     |
| 4-BFB                    | 110            |                | 70-130           |            | 05/09/2014 14:06     |



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 5/12/14  
**Date Analyzed:** 5/9/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1405359  
**BatchID:** 90306  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-90306  
 1405315-001AMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 19.7       | 0.50 | 20      | -          | 98.3     | 70-130     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 19.4       | 0.50 | 20      | -          | 96.7     | 70-130     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 17.7       | 0.50 | 20      | -          | 88.6     | 70-130     |
| 1,1-Dichloroethene            | ND        | 20.4       | 0.50 | 20      | -          | 102      | 70-130     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 5/12/14  
**Date Analyzed:** 5/9/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1405359  
**BatchID:** 90306  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-90306  
 1405315-001AMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 20.1       | 0.50 | 20      | -          | 100      | 70-130     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |

### Surrogate Recovery

|                      |      |      |  |     |     |     |        |
|----------------------|------|------|--|-----|-----|-----|--------|
| Dibromofluoromethane | 23.6 | 42.1 |  | 45  | 94  | 94  | 70-130 |
| Toluene-d8           | 26.1 | 46.6 |  | 45  | 104 | 103 | 70-130 |
| 4-BFB                | 2.49 | 4.64 |  | 4.5 | 100 | 103 | 70-130 |

(Cont.)





## Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 5/12/14  
**Date Analyzed:** 5/9/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1405359  
**BatchID:** 90306  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-90306  
 1405315-001AMS/MSD

### QC Summary Report for SW8260B

| Analyte                      | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD  | RPD Limit |
|------------------------------|-----------|------------|---------|------------|---------|----------|---------------|------|-----------|
| Chlorobenzene                | 19.6      | 20.2       | 20      | ND         | 97.8    | 101      | 70-130        | 3.15 | 20        |
| 1,2-Dibromoethane (EDB)      | 20.8      | 21.2       | 20      | ND         | 104     | 106      | 70-130        | 2.19 | 20        |
| 1,2-Dichloroethane (1,2-DCA) | 18.3      | 18.8       | 20      | ND         | 91.6    | 94.3     | 70-130        | 2.82 | 20        |
| 1,1-Dichloroethene           | 19.5      | 20.2       | 20      | ND         | 97.4    | 101      | 70-130        | 3.76 | 20        |
| Trichloroethene              | 19.3      | 19.9       | 20      | ND         | 96.5    | 99.4     | 70-130        | 2.99 | 20        |
| <b>Surrogate Recovery</b>    |           |            |         |            |         |          |               |      |           |
| Dibromofluoromethane         | 42.9      | 43.3       | 45      |            | 95      | 96       | 70-130        | 1.02 | 20        |
| Toluene-d8                   | 46.3      | 46.3       | 45      |            | 103     | 103      | 70-130        | 0    | 20        |
| 4-BFB                        | 4.38      | 4.33       | 4.5     |            | 97      | 96       | 70-130        | 1.08 | 20        |

1534 Willow Pass Rd  
 Pittsburg, CA 94565-1701  
 (925) 252-9262



# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1405359

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQulS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**  
 Jeremy Smith  
 AEI Consultants  
 2500 Camino Diablo, Ste.#200  
 Walnut Creek, CA 94597  
 (925) 283-6000    FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com  
 cc/3rd Party:  
 PO: #56961  
 ProjectNo: #261829; Foothill Square

**Bill to:**  
 Sara Guerin  
 AEI Consultants  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597  
 AccountsPayable@AEIConsultants.co

**Requested TAT: 5 days**  
  
**Date Received: 05/09/2014**  
**Date Printed: 05/12/2014**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 1405359-001 | SS-5      | Air    | 5/9/2014 10:10  | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |           |    |              |   |  |   |  |    |  |
|----|-----------|----|--------------|---|--|---|--|----|--|
| 1  | 8010BMS_A | 2  | PREDF REPORT | 3 |  | 4 |  | 5  |  |
| 6  |           | 7  |              | 8 |  | 9 |  | 10 |  |
| 11 |           | 12 |              |   |  |   |  |    |  |

The following SampID: 001A contains testgroup.

**Prepared by: Maria Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS  
**Project:** #261829; Foothill Square  
**Comments:**

**QC Level:** LEVEL 2  
**Client Contact:** Jeremy Smith  
**Contact's Email:** jasmith@aeiconsultants.com

**Work Order:** 1405359  
**Date Received:** 5/9/2014

WaterTrax     WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

| Lab ID       | Client ID | Matrix | Test Name     | Number of Containers | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT    | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|---------------|----------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1405359-001A | SS-5      | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/9/2014 10:10         | 5 days |                  | <input type="checkbox"/> |        |

**\* NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

**Bottle Legend:**

Tedlar = Tedlar Air Bag

1405359

**McCAMPBELL ANALYTICAL INC.**

1534 Willow Pass Road  
Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

**CHAIN OF CUSTODY RECORD**

**TURN AROUND TIME**

RUSH 24 HR 48 HR 72 HR 5 DAY

EDF Required?  Yes  No

**Report To: Jeremy Smith**      **Bill To: same**      **P.O. # 56961**  
**Company: AEI Consultants**  
**2500 Camino Diablo**  
**Walnut Creek, CA 94597**      **E-Mail: jasmith@aeiconsultants.com**  
**Tele: (925) 746-6000**      **Fax: (925) 746-6099**  
**Project #: 261829**      **Project Name: Foothill Square**  
**Project Location: 10700 MacArthur Blvd., Oakland, California**  
**Sampler Signature:** *John Siggy*

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |  |  |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |  |  |
| SS-5                            |          | 5-9-14   | 1010 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |

| Analysis Request |                                                 |       |  |  |  |  |  |  |  |  |  |  |  |   | Other | Comments |  |  |  |  |
|------------------|-------------------------------------------------|-------|--|--|--|--|--|--|--|--|--|--|--|---|-------|----------|--|--|--|--|
|                  |                                                 |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  | BTEX / MTBE                                     | 8021B |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  | TPH Multi-Range (8015) w/silica Gel Cleanup     |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  | TPHg Using EPA Method 8015                      |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  | TPHg / TPHd 8015 with Silica Gel                |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  | TPH as Hydraulic Oil w/ Silica Gel Cleanup 8015 |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  | Benzene, Ethylbenzene, Naphthalene ( 8260)      |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  | Nitrate/Nitrite                                 |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  | EPA 608 / 8080 PCB's ONLY                       |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  | HVOCs 8260, PCE, TCE, cis/trans, 1,2 DCE, VC    |       |  |  |  |  |  |  |  |  |  |  |  | X |       |          |  |  |  |  |
|                  | SVOCs (with PAHs) 8270                          |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  | PAH's / PNA's by EPA 625 / 8270 / 8310          |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  | CAM-17 Metals by 6010                           |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  | CAM -17 Metals by E200.8 (Dissolved)            |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  | OC Pesticides EPA Method 8081                   |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  | OC Acidic Herbicides EPA Method 8151            |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  |                                                 |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  |                                                 |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  |                                                 |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  |                                                 |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  |                                                 |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  |                                                 |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  |                                                 |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  |                                                 |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  |                                                 |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |
|                  |                                                 |       |  |  |  |  |  |  |  |  |  |  |  |   |       |          |  |  |  |  |

|                                    |              |            |                           |
|------------------------------------|--------------|------------|---------------------------|
| Relinquished By: <i>John Siggy</i> | Date: 5-9-14 | Time: 1100 | Received By: <i>Munoz</i> |
| Relinquished By:                   | Date:        | Time:      | Received By:              |
| Relinquished By:                   | Date:        | Time:      | Received By:              |

ICE/r° NA      VOAS  O&G  METALS  OTHER

GOOD CONDITION       PRESERVATION APPROPRIATE

HEAD SPACE ABSENT       CONTAINERS

DECHLORINATED IN LAB       PERSERVED IN LAB



### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **5/9/2014 11:07:42 AM**  
 Project Name: **#261829; Foothill Square** LogIn Reviewed by: **Maria Venegas**  
 WorkOrder N°: **1405359** Matrix: Air Carrier: Client Drop-In

#### Chain of Custody (COC) Information

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

#### Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes  No   
 Container/Temp Blank temperature Cooler Temp: NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 pH acceptable upon receipt (Metal: pH<2; 522: pH<4)? Yes  No  NA   
 Samples Received on Ice? Yes  No

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1405929

**Report Created for:** AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597

**Project Contact:** Jeremy Smith  
**Project P.O.:** #57841  
**Project Name:** #261829; Foothill Square

**Project Received:** 05/23/2014

Analytical Report reviewed & approved for release on 05/30/2014 by:

Question about  
your data?

[Click here to email  
McC Campbell](#)

Angela Rydelius,  
Laboratory Manager

***The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.***





## Glossary of Terms & Qualifier Definitions

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**WorkOrder:** 1405929

### Glossary Abbreviation

|              |                                                                                                                                                                                                     |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 95% Interval | 95% Confident Interval                                                                                                                                                                              |
| DF           | Dilution Factor                                                                                                                                                                                     |
| DUP          | Duplicate                                                                                                                                                                                           |
| EDL          | Estimated Detection Limit                                                                                                                                                                           |
| ITEF         | International Toxicity Equivalence Factor                                                                                                                                                           |
| LCS          | Laboratory Control Sample                                                                                                                                                                           |
| MB           | Method Blank                                                                                                                                                                                        |
| MB % Rec     | % Recovery of Surrogate in Method Blank, if applicable                                                                                                                                              |
| MDL          | Method Detection Limit                                                                                                                                                                              |
| ML           | Minimum Level of Quantitation                                                                                                                                                                       |
| MS           | Matrix Spike                                                                                                                                                                                        |
| MSD          | Matrix Spike Duplicate                                                                                                                                                                              |
| ND           | Not detected at or above the indicated MDL or RL                                                                                                                                                    |
| NR           | Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content. |
| RD           | Relative Difference                                                                                                                                                                                 |
| RL           | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)                                                                                                            |
| RPD          | Relative Percent Deviation                                                                                                                                                                          |
| RRT          | Relative Retention Time                                                                                                                                                                             |
| SPK Val      | Spike Value                                                                                                                                                                                         |
| SPKRef Val   | Spike Reference Value                                                                                                                                                                               |
| TEQ          | Toxicity Equivalence                                                                                                                                                                                |

### Analytical Qualifiers

H samples were analyzed out of holding time



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/23/14 12:14  
**Date Prepared:** 5/23/14

**WorkOrder:** 1405929  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|----------------|------------------|------------|----------------------|
| SSD INF                      | 1405929-001A   | Air            | 05/23/2014 09:20 | GC28       | 90833                |
| <u>Analytes</u>              | <u>Result</u>  |                | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| Bromoform                    | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| Bromomethane                 | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| Carbon Tetrachloride         | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| Chlorobenzene                | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| Chloroethane                 | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| Chloroform                   | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| Chloromethane                | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| Dibromochloromethane         | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| 1,2-Dibromoethane (EDB)      | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| 1,2-Dichlorobenzene          | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| 1,3-Dichlorobenzene          | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| 1,4-Dichlorobenzene          | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| Dichlorodifluoromethane      | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| 1,1-Dichloroethane           | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| 1,2-Dichloroethane (1,2-DCA) | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| 1,1-Dichloroethene           | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| cis-1,2-Dichloroethene       | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| trans-1,2-Dichloroethene     | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| 1,2-Dichloropropane          | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| cis-1,3-Dichloropropene      | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| trans-1,3-Dichloropropene    | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| Freon 113                    | ND             |                | 5000             | 1          | 05/23/2014 13:56     |
| Methylene chloride           | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| 1,1,1,2-Tetrachloroethane    | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| 1,1,2,2-Tetrachloroethane    | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| Tetrachloroethene            | <b>2000</b>    |                | 250              | 1          | 05/23/2014 13:56     |
| 1,1,1-Trichloroethane        | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| 1,1,2-Trichloroethane        | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| Trichloroethene              | <b>270</b>     |                | 250              | 1          | 05/23/2014 13:56     |
| Trichlorofluoromethane       | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| Vinyl Chloride               | ND             |                | 250              | 1          | 05/23/2014 13:56     |
| <u>Surrogates</u>            | <u>REC (%)</u> |                | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 108            |                | 70-130           |            | 05/23/2014 13:56     |
| Toluene-d8                   | 118            |                | 70-130           |            | 05/23/2014 13:56     |
| 4-BFB                        | 103            |                | 70-130           |            | 05/23/2014 13:56     |

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## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/23/14 12:14  
**Date Prepared:** 5/23/14

**WorkOrder:** 1405929  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SVE-1 INF                    | 1405929-002A   | Air               | 05/23/2014 09:30 | GC28       | 90833                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| Bromoform                    | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| Bromomethane                 | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| Carbon Tetrachloride         | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| Chlorobenzene                | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| Chloroethane                 | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| Chloroform                   | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| Chloromethane                | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| Dibromochloromethane         | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| 1,2-Dichlorobenzene          | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| 1,3-Dichlorobenzene          | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| 1,4-Dichlorobenzene          | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| Dichlorodifluoromethane      | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| 1,1-Dichloroethane           | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| 1,1-Dichloroethene           | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| cis-1,2-Dichloroethene       | <b>54,000</b>  | H                 | 2500             | 10         | 05/23/2014 21:29     |
| trans-1,2-Dichloroethene     | <b>7200</b>    | H                 | 2500             | 10         | 05/23/2014 21:29     |
| 1,2-Dichloropropane          | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| cis-1,3-Dichloropropene      | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| trans-1,3-Dichloropropene    | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| Freon 113                    | ND             | H                 | 50,000           | 10         | 05/23/2014 21:29     |
| Methylene chloride           | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| Tetrachloroethene            | <b>97,000</b>  | H                 | 2500             | 10         | 05/23/2014 21:29     |
| 1,1,1-Trichloroethane        | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| 1,1,2-Trichloroethane        | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| Trichloroethene              | <b>38,000</b>  | H                 | 2500             | 10         | 05/23/2014 21:29     |
| Trichlorofluoromethane       | ND             | H                 | 2500             | 10         | 05/23/2014 21:29     |
| Vinyl Chloride               | <b>3600</b>    | H                 | 2500             | 10         | 05/23/2014 21:29     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 112            | H                 | 70-130           |            | 05/23/2014 21:29     |
| Toluene-d8                   | 116            | H                 | 70-130           |            | 05/23/2014 21:29     |
| 4-BFB                        | 100            | H                 | 70-130           |            | 05/23/2014 21:29     |

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## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/23/14 12:14  
**Date Prepared:** 5/23/14

**WorkOrder:** 1405929  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SSD-MID                      | 1405929-003A   | Air               | 05/23/2014 08:50 | GC28       | 90833                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| Bromoform                    | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| Bromomethane                 | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| Carbon Tetrachloride         | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| Chlorobenzene                | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| Chloroethane                 | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| Chloroform                   | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| Chloromethane                | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| Dibromochloromethane         | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| 1,2-Dichlorobenzene          | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| 1,3-Dichlorobenzene          | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| 1,4-Dichlorobenzene          | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| Dichlorodifluoromethane      | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| 1,1-Dichloroethane           | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| 1,1-Dichloroethene           | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| cis-1,2-Dichloroethene       | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| trans-1,2-Dichloroethene     | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| 1,2-Dichloropropane          | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| cis-1,3-Dichloropropene      | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| trans-1,3-Dichloropropene    | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| Freon 113                    | ND             | H                 | 5000             | 1          | 05/23/2014 15:16     |
| Methylene chloride           | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| Tetrachloroethene            | <b>700</b>     | H                 | 250              | 1          | 05/23/2014 15:16     |
| 1,1,1-Trichloroethane        | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| 1,1,2-Trichloroethane        | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| Trichloroethene              | <b>430</b>     | H                 | 250              | 1          | 05/23/2014 15:16     |
| Trichlorofluoromethane       | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| Vinyl Chloride               | ND             | H                 | 250              | 1          | 05/23/2014 15:16     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 110            | H                 | 70-130           |            | 05/23/2014 15:16     |
| Toluene-d8                   | 116            | H                 | 70-130           |            | 05/23/2014 15:16     |
| 4-BFB                        | 97             | H                 | 70-130           |            | 05/23/2014 15:16     |

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## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/23/14 12:14  
**Date Prepared:** 5/23/14

**WorkOrder:** 1405929  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SVE-MID 1                    | 1405929-004A   | Air               | 05/23/2014 09:10 | GC28       | 90833                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| Bromoform                    | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| Bromomethane                 | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| Carbon Tetrachloride         | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| Chlorobenzene                | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| Chloroethane                 | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| Chloroform                   | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| Chloromethane                | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| Dibromochloromethane         | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| 1,2-Dichlorobenzene          | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| 1,3-Dichlorobenzene          | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| 1,4-Dichlorobenzene          | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| Dichlorodifluoromethane      | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| 1,1-Dichloroethane           | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| 1,1-Dichloroethene           | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| cis-1,2-Dichloroethene       | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| trans-1,2-Dichloroethene     | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| 1,2-Dichloropropane          | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| cis-1,3-Dichloropropene      | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| trans-1,3-Dichloropropene    | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| Freon 113                    | ND             | H                 | 5000             | 1          | 05/23/2014 15:56     |
| Methylene chloride           | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| Tetrachloroethene            | <b>2600</b>    | H                 | 250              | 1          | 05/23/2014 15:56     |
| 1,1,1-Trichloroethane        | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| 1,1,2-Trichloroethane        | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| Trichloroethene              | <b>340</b>     | H                 | 250              | 1          | 05/23/2014 15:56     |
| Trichlorofluoromethane       | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| Vinyl Chloride               | ND             | H                 | 250              | 1          | 05/23/2014 15:56     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 109            | H                 | 70-130           |            | 05/23/2014 15:56     |
| Toluene-d8                   | 115            | H                 | 70-130           |            | 05/23/2014 15:56     |
| 4-BFB                        | 96             | H                 | 70-130           |            | 05/23/2014 15:56     |

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## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/23/14 12:14  
**Date Prepared:** 5/23/14

**WorkOrder:** 1405929  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SVE-MID 2                    | 1405929-005A   | Air               | 05/23/2014 09:00 | GC28       | 90833                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| Bromoform                    | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| Bromomethane                 | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| Carbon Tetrachloride         | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| Chlorobenzene                | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| Chloroethane                 | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| Chloroform                   | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| Chloromethane                | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| Dibromochloromethane         | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| 1,2-Dichlorobenzene          | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| 1,3-Dichlorobenzene          | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| 1,4-Dichlorobenzene          | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| Dichlorodifluoromethane      | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| 1,1-Dichloroethane           | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| 1,1-Dichloroethene           | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| cis-1,2-Dichloroethene       | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| trans-1,2-Dichloroethene     | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| 1,2-Dichloropropane          | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| cis-1,3-Dichloropropene      | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| trans-1,3-Dichloropropene    | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| Freon 113                    | ND             | H                 | 5000             | 1          | 05/23/2014 16:37     |
| Methylene chloride           | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| 1,1,1,2,2-Tetrachloroethane  | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| Tetrachloroethene            | <b>370</b>     | H                 | 250              | 1          | 05/23/2014 16:37     |
| 1,1,1-Trichloroethane        | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| 1,1,2-Trichloroethane        | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| Trichloroethene              | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| Trichlorofluoromethane       | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| Vinyl Chloride               | ND             | H                 | 250              | 1          | 05/23/2014 16:37     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 109            | H                 | 70-130           |            | 05/23/2014 16:37     |
| Toluene-d8                   | 117            | H                 | 70-130           |            | 05/23/2014 16:37     |
| 4-BFB                        | 102            | H                 | 70-130           |            | 05/23/2014 16:37     |



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/23/14 12:14  
**Date Prepared:** 5/23/14

**WorkOrder:** 1405929  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|----------------|------------------|------------|----------------------|
| SSD INF                      | 1405929-001A   | Air            | 05/23/2014 09:20 | GC28       | 90833                |
| <u>Analytes</u>              | <u>Result</u>  |                | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| Bromoform                    | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| Bromomethane                 | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| Carbon Tetrachloride         | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| Chlorobenzene                | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| Chloroethane                 | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| Chloroform                   | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| Chloromethane                | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| Dibromochloromethane         | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| 1,2-Dibromoethane (EDB)      | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| 1,2-Dichlorobenzene          | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| 1,3-Dichlorobenzene          | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| 1,4-Dichlorobenzene          | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| Dichlorodifluoromethane      | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| 1,1-Dichloroethane           | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| 1,2-Dichloroethane (1,2-DCA) | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| 1,1-Dichloroethene           | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| cis-1,2-Dichloroethene       | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| trans-1,2-Dichloroethene     | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| 1,2-Dichloropropane          | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| cis-1,3-Dichloropropene      | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| trans-1,3-Dichloropropene    | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| Freon 113                    | ND             |                | 5.0              | 1          | 05/23/2014 13:56     |
| Methylene chloride           | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| 1,1,1,2-Tetrachloroethane    | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| 1,1,2,2-Tetrachloroethane    | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| Tetrachloroethene            | <b>2.0</b>     |                | 0.25             | 1          | 05/23/2014 13:56     |
| 1,1,1-Trichloroethane        | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| 1,1,2-Trichloroethane        | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| Trichloroethene              | <b>0.27</b>    |                | 0.25             | 1          | 05/23/2014 13:56     |
| Trichlorofluoromethane       | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| Vinyl Chloride               | ND             |                | 0.25             | 1          | 05/23/2014 13:56     |
| <u>Surrogates</u>            | <u>REC (%)</u> |                | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 108            |                | 70-130           |            | 05/23/2014 13:56     |
| Toluene-d8                   | 118            |                | 70-130           |            | 05/23/2014 13:56     |
| 4-BFB                        | 103            |                | 70-130           |            | 05/23/2014 13:56     |

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## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/23/14 12:14  
**Date Prepared:** 5/23/14

**WorkOrder:** 1405929  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SVE-1 INF                    | 1405929-002A   | Air               | 05/23/2014 09:30 | GC28       | 90833                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| Bromoform                    | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| Bromomethane                 | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| Carbon Tetrachloride         | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| Chlorobenzene                | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| Chloroethane                 | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| Chloroform                   | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| Chloromethane                | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| Dibromochloromethane         | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| 1,2-Dichlorobenzene          | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| 1,3-Dichlorobenzene          | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| 1,4-Dichlorobenzene          | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| Dichlorodifluoromethane      | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| 1,1-Dichloroethane           | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| 1,1-Dichloroethene           | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| cis-1,2-Dichloroethene       | <b>54</b>      | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| trans-1,2-Dichloroethene     | <b>7.2</b>     | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| 1,2-Dichloropropane          | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| cis-1,3-Dichloropropene      | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| trans-1,3-Dichloropropene    | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| Freon 113                    | ND             | H                 | 50               | 10         | 05/23/2014 21:29     |
| Methylene chloride           | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| Tetrachloroethene            | <b>97</b>      | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| 1,1,1-Trichloroethane        | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| 1,1,2-Trichloroethane        | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| Trichloroethene              | <b>38</b>      | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| Trichlorofluoromethane       | ND             | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| Vinyl Chloride               | <b>3.6</b>     | H                 | 2.5              | 10         | 05/23/2014 21:29     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 112            | H                 | 70-130           |            | 05/23/2014 21:29     |
| Toluene-d8                   | 116            | H                 | 70-130           |            | 05/23/2014 21:29     |
| 4-BFB                        | 100            | H                 | 70-130           |            | 05/23/2014 21:29     |

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## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/23/14 12:14  
**Date Prepared:** 5/23/14

**WorkOrder:** 1405929  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SSD-MID                      | 1405929-003A   | Air               | 05/23/2014 08:50 | GC28       | 90833                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| Bromoform                    | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| Bromomethane                 | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| Carbon Tetrachloride         | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| Chlorobenzene                | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| Chloroethane                 | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| Chloroform                   | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| Chloromethane                | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| Dibromochloromethane         | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| 1,2-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| 1,3-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| 1,4-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| Dichlorodifluoromethane      | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| 1,1-Dichloroethane           | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| 1,1-Dichloroethene           | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| cis-1,2-Dichloroethene       | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| trans-1,2-Dichloroethene     | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| 1,2-Dichloropropane          | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| cis-1,3-Dichloropropene      | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| trans-1,3-Dichloropropene    | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| Freon 113                    | ND             | H                 | 5.0              | 1          | 05/23/2014 15:16     |
| Methylene chloride           | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| Tetrachloroethene            | <b>0.70</b>    | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| 1,1,1-Trichloroethane        | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| 1,1,2-Trichloroethane        | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| Trichloroethene              | <b>0.43</b>    | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| Trichlorofluoromethane       | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| Vinyl Chloride               | ND             | H                 | 0.25             | 1          | 05/23/2014 15:16     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 110            | H                 | 70-130           |            | 05/23/2014 15:16     |
| Toluene-d8                   | 116            | H                 | 70-130           |            | 05/23/2014 15:16     |
| 4-BFB                        | 97             | H                 | 70-130           |            | 05/23/2014 15:16     |

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## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/23/14 12:14  
**Date Prepared:** 5/23/14

**WorkOrder:** 1405929  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SVE-MID 1                    | 1405929-004A   | Air               | 05/23/2014 09:10 | GC28       | 90833                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| Bromoform                    | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| Bromomethane                 | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| Carbon Tetrachloride         | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| Chlorobenzene                | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| Chloroethane                 | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| Chloroform                   | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| Chloromethane                | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| Dibromochloromethane         | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| 1,2-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| 1,3-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| 1,4-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| Dichlorodifluoromethane      | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| 1,1-Dichloroethane           | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| 1,1-Dichloroethene           | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| cis-1,2-Dichloroethene       | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| trans-1,2-Dichloroethene     | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| 1,2-Dichloropropane          | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| cis-1,3-Dichloropropene      | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| trans-1,3-Dichloropropene    | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| Freon 113                    | ND             | H                 | 5.0              | 1          | 05/23/2014 15:56     |
| Methylene chloride           | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| Tetrachloroethene            | <b>2.6</b>     | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| 1,1,1-Trichloroethane        | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| 1,1,2-Trichloroethane        | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| Trichloroethene              | <b>0.34</b>    | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| Trichlorofluoromethane       | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| Vinyl Chloride               | ND             | H                 | 0.25             | 1          | 05/23/2014 15:56     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 109            | H                 | 70-130           |            | 05/23/2014 15:56     |
| Toluene-d8                   | 115            | H                 | 70-130           |            | 05/23/2014 15:56     |
| 4-BFB                        | 96             | H                 | 70-130           |            | 05/23/2014 15:56     |

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## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/23/14 12:14  
**Date Prepared:** 5/23/14

**WorkOrder:** 1405929  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SVE-MID 2                    | 1405929-005A   | Air               | 05/23/2014 09:00 | GC28       | 90833                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| Bromoform                    | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| Bromomethane                 | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| Carbon Tetrachloride         | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| Chlorobenzene                | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| Chloroethane                 | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| Chloroform                   | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| Chloromethane                | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| Dibromochloromethane         | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| 1,2-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| 1,3-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| 1,4-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| Dichlorodifluoromethane      | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| 1,1-Dichloroethane           | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| 1,1-Dichloroethene           | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| cis-1,2-Dichloroethene       | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| trans-1,2-Dichloroethene     | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| 1,2-Dichloropropane          | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| cis-1,3-Dichloropropene      | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| trans-1,3-Dichloropropene    | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| Freon 113                    | ND             | H                 | 5.0              | 1          | 05/23/2014 16:37     |
| Methylene chloride           | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| 1,1,1,2,2-Tetrachloroethane  | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| Tetrachloroethene            | <b>0.37</b>    | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| 1,1,1-Trichloroethane        | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| 1,1,2-Trichloroethane        | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| Trichloroethene              | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| Trichlorofluoromethane       | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| Vinyl Chloride               | ND             | H                 | 0.25             | 1          | 05/23/2014 16:37     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 109            | H                 | 70-130           |            | 05/23/2014 16:37     |
| Toluene-d8                   | 117            | H                 | 70-130           |            | 05/23/2014 16:37     |
| 4-BFB                        | 102            | H                 | 70-130           |            | 05/23/2014 16:37     |



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 5/27/14  
**Date Analyzed:** 5/23/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1405929  
**BatchID:** 90833  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-90833  
 1405843-001FMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 20.2       | 0.50 | 20      | -          | 101      | 70-130     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 20.3       | 0.50 | 20      | -          | 102      | 70-130     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 18.5       | 0.50 | 20      | -          | 92.7     | 70-130     |
| 1,1-Dichloroethene            | ND        | 19.6       | 0.50 | 20      | -          | 98       | 70-130     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 5/27/14  
**Date Analyzed:** 5/23/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1405929  
**BatchID:** 90833  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-90833  
 1405843-001FMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 19.8       | 0.50 | 20      | -          | 99.1     | 70-130     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |

### Surrogate Recovery

|                      |      |      |  |     |     |     |        |
|----------------------|------|------|--|-----|-----|-----|--------|
| Dibromofluoromethane | 27.2 | 49.9 |  | 45  | 109 | 111 | 70-130 |
| Toluene-d8           | 28.3 | 50.7 |  | 45  | 113 | 113 | 70-130 |
| 4-BFB                | 2.52 | 4.66 |  | 4.5 | 101 | 104 | 70-130 |

(Cont.)



## Quality Control Report

|                       |                          |                           |                                    |
|-----------------------|--------------------------|---------------------------|------------------------------------|
| <b>Client:</b>        | AEI Consultants          | <b>WorkOrder:</b>         | 1405929                            |
| <b>Date Prepared:</b> | 5/27/14                  | <b>BatchID:</b>           | 90833                              |
| <b>Date Analyzed:</b> | 5/23/14                  | <b>Extraction Method:</b> | SW5030B                            |
| <b>Instrument:</b>    | GC28                     | <b>Analytical Method:</b> | SW8260B                            |
| <b>Matrix:</b>        | Water                    | <b>Unit:</b>              | µg/L                               |
| <b>Project:</b>       | #261829; Foothill Square | <b>Sample ID:</b>         | MB/LCS-90833<br>1405843-001FMS/MSD |

### QC Summary Report for SW8260B

| Analyte                      | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD   | RPD Limit |
|------------------------------|-----------|------------|---------|------------|---------|----------|---------------|-------|-----------|
| Chlorobenzene                | 21.0      | 21.2       | 20      | ND         | 105     | 106      | 70-130        | 1.14  | 20        |
| 1,2-Dibromoethane (EDB)      | 22.5      | 22.6       | 20      | ND         | 113     | 113      | 70-130        | 0     | 20        |
| 1,2-Dichloroethane (1,2-DCA) | 20.6      | 20.5       | 20      | ND         | 103     | 102      | 70-130        | 0.307 | 20        |
| 1,1-Dichloroethene           | 19.6      | 20.7       | 20      | ND         | 98.1    | 104      | 70-130        | 5.37  | 20        |
| Trichloroethene              | 20.8      | 21.1       | 20      | ND         | 104     | 106      | 70-130        | 1.75  | 20        |
| <b>Surrogate Recovery</b>    |           |            |         |            |         |          |               |       |           |
| Dibromofluoromethane         | 51.1      | 51.7       | 45      |            | 114     | 115      | 70-130        | 1.07  | 20        |
| Toluene-d8                   | 51.1      | 50.5       | 45      |            | 113     | 112      | 70-130        | 1.17  | 20        |
| 4-BFB                        | 4.63      | 4.70       | 4.5     |            | 103     | 105      | 70-130        | 1.56  | 20        |



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1405929

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQUIS   
 Email   
 HardCopy   
 ThirdParty   
 J-flag

**Report to:**

Jeremy Smith  
AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597  
(925) 283-6000    FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com  
cc/3rd Party:  
PO: #57841  
ProjectNo: #261829; Foothill Square

**Bill to:**

Sara Guerin  
AEI Consultants  
2500 Camino Diablo, Ste. #200  
Walnut Creek, CA 94597  
AccountsPayable@AEIConsultants.co

**Requested TAT:**

**5 days**

**Date Received: 05/23/2014**

**Date Printed: 05/23/2014**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 1405929-001 | SSD INF   | Air    | 5/23/2014 9:20  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1405929-002 | SVE-1 INF | Air    | 5/23/2014 9:30  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1405929-003 | SSD-MID   | Air    | 5/23/2014 8:50  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1405929-004 | SVE-MID 1 | Air    | 5/23/2014 9:10  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1405929-005 | SVE-MID 2 | Air    | 5/23/2014 9:00  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |           |    |  |   |  |   |  |    |  |
|----|-----------|----|--|---|--|---|--|----|--|
| 1  | 8010BMS_A | 2  |  | 3 |  | 4 |  | 5  |  |
| 6  |           | 7  |  | 8 |  | 9 |  | 10 |  |
| 11 |           | 12 |  |   |  |   |  |    |  |

The following SamplIDs: 001A, 002A, 003A, 004A, 005A contain testgroup.

**Prepared by: Maria Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS  
**Project:** #261829; Foothill Square  
**Comments:**

**QC Level:** LEVEL 2  
**Client Contact:** Jeremy Smith  
**Contact's Email:** jasmith@aeiconsultants.com

**Work Order:** 1405929  
**Date Received:** 5/23/2014

WaterTrax     WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

| Lab ID       | Client ID | Matrix | Test Name     | Number of Containers | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT    | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|---------------|----------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1405929-001A | SSD INF   | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/23/2014 9:20         | 5 days |                  | <input type="checkbox"/> |        |
| 1405929-002A | SVE-1 INF | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/23/2014 9:30         | 5 days |                  | <input type="checkbox"/> |        |
| 1405929-003A | SSD-MID   | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/23/2014 8:50         | 5 days |                  | <input type="checkbox"/> |        |
| 1405929-004A | SVE-MID 1 | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/23/2014 9:10         | 5 days |                  | <input type="checkbox"/> |        |
| 1405929-005A | SVE-MID 2 | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 5/23/2014 9:00         | 5 days |                  | <input type="checkbox"/> |        |

**\* NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

**Bottle Legend:**

Tedlar = Tedlar Air Bag

1405929

**McCAMPBELL ANALYTICAL INC.**

1534 Willow Pass Road  
Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

**CHAIN OF CUSTODY RECORD**

**TURN AROUND TIME**

RUSH  24 HR  48 HR  72 HR  5 DAY

EDF Required?  Yes  No

Report To: Jeremy Smith Bill To: same P.O. # 57841

Company: AEI Consultants

2500 Camino Diablo

Walnut Creek, CA 94597

E-Mail: jasmith@aeiconsultants.com

Tele: (925) 746-6000

Fax: (925) 746-6099

Project #: 261829

Project Name: Foothill Square

Project Location: 10700 MacArthur Blvd. Oakland, CA

Sampler Signature: *John S. S. 8/26*

**Analysis Request**

**Other**

**Comments**

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |  |  |  |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|--|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |  |  |  |
| SSD INF                         |          | 5-23-14  | 0920 | 1            | Tb              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| SVE-1 INF                       |          |          | 0930 | 1            | Tb              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| SSD-MID                         |          |          | 0850 | 1            | Tb              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| SVE-MID 1                       |          |          | 0910 | 1            | Tb              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| SVE-MID 2                       |          |          | 0900 | 1            | Tb              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |

|                                             |   |
|---------------------------------------------|---|
| BTEX & TPH as Gas (602/8020 + 8015)/MTBE    |   |
| TPH as Diesel (8015) w/silica Gel Cleanup   |   |
| Total Petroleum Oil & Grease (5520 E&F/B&F) |   |
| Total Petroleum Hydrocarbons (418.1)        |   |
| HVOCs EPA 8260                              | X |
| BTEX ONLY (EPA 602 / 8020)                  | X |
| EPA 608 / 8080                              | X |
| EPA 608 / 8080 PCB's ONLY                   | X |
| EPA 624 / 8260                              | X |
| EPA 625 / 8270                              |   |
| PAH's / PNA's by EPA 625 / 8270 / 8310      |   |
| CAM-17 Metals                               |   |
| LUFT 5 Metals                               |   |
| Lead (7240/7421/239.2/6010)                 |   |
| RCI                                         |   |

|                                    |               |            |                              |
|------------------------------------|---------------|------------|------------------------------|
| Relinquished By: <i>John S. S.</i> | Date: 5-23-14 | Time: 1052 | Received By: <i>M. V. D.</i> |
| Relinquished By:                   | Date:         | Time:      | Received By:                 |
| Relinquished By:                   | Date:         | Time:      | Received By:                 |

|                                                       |                                           |     |        |       |
|-------------------------------------------------------|-------------------------------------------|-----|--------|-------|
| ICE/t° <i>NA</i>                                      | VOAS                                      | O&G | METALS | OTHER |
| GOOD CONDITION <input checked="" type="checkbox"/>    | PRESERVATION                              |     |        |       |
| HEAD SPACE ABSENT <input checked="" type="checkbox"/> | APPROPRIATE                               |     |        |       |
| DECHLORINATED IN LAB <input type="checkbox"/>         | CONTAINERS                                |     |        |       |
|                                                       | PERSERVED IN LAB <input type="checkbox"/> |     |        |       |



### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **5/23/2014 12:14:51 PM**  
 Project Name: **#261829; Foothill Square** LogIn Reviewed by: **Maria Venegas**  
 WorkOrder N°: **1405929** Matrix: Air Carrier: Client Drop-In

#### Chain of Custody (COC) Information

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

#### Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes  No   
 Container/Temp Blank temperature Cooler Temp: NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 pH acceptable upon receipt (Metal: pH<2; 522: pH<4)? Yes  No  NA   
 Samples Received on Ice? Yes  No

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:





# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1407106

**Report Created for:** AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597

**Project Contact:** Jeremy Smith  
**Project P.O.:** #60548  
**Project Name:** #261829; Foothill Square

**Project Received:** 07/03/2014

Analytical Report reviewed & approved for release on 07/09/2014 by:

Question about  
your data?

[Click here to email  
McC Campbell](#)

Angela Rydelius,  
Laboratory Manager

***The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.***





## Glossary of Terms & Qualifier Definitions

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**WorkOrder:** 1407106

### Glossary Abbreviation

|              |                                                                                                                                                                                                     |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 95% Interval | 95% Confident Interval                                                                                                                                                                              |
| DF           | Dilution Factor                                                                                                                                                                                     |
| DUP          | Duplicate                                                                                                                                                                                           |
| EDL          | Estimated Detection Limit                                                                                                                                                                           |
| ITEF         | International Toxicity Equivalence Factor                                                                                                                                                           |
| LCS          | Laboratory Control Sample                                                                                                                                                                           |
| MB           | Method Blank                                                                                                                                                                                        |
| MB % Rec     | % Recovery of Surrogate in Method Blank, if applicable                                                                                                                                              |
| MDL          | Method Detection Limit                                                                                                                                                                              |
| ML           | Minimum Level of Quantitation                                                                                                                                                                       |
| MS           | Matrix Spike                                                                                                                                                                                        |
| MSD          | Matrix Spike Duplicate                                                                                                                                                                              |
| ND           | Not detected at or above the indicated MDL or RL                                                                                                                                                    |
| NR           | Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content. |
| RD           | Relative Difference                                                                                                                                                                                 |
| RL           | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)                                                                                                            |
| RPD          | Relative Percent Deviation                                                                                                                                                                          |
| RRT          | Relative Retention Time                                                                                                                                                                             |
| SPK Val      | Spike Value                                                                                                                                                                                         |
| SPKRef Val   | Spike Reference Value                                                                                                                                                                               |
| TEQ          | Toxicity Equivalence                                                                                                                                                                                |

### Analytical Qualifiers

H samples were analyzed out of holding time



# Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 7/3/14 9:23  
**Date Prepared:** 7/3/14

**WorkOrder:** 1407106  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SSD INF                      | 1407106-001A   | Air               | 07/03/2014 06:40 | GC38       | 92400                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| Bromoform                    | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| Bromomethane                 | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| Carbon Tetrachloride         | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| Chlorobenzene                | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| Chloroethane                 | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| Chloroform                   | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| Chloromethane                | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| Dibromochloromethane         | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| 1,2-Dichlorobenzene          | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| 1,3-Dichlorobenzene          | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| 1,4-Dichlorobenzene          | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| Dichlorodifluoromethane      | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| 1,1-Dichloroethane           | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| 1,1-Dichloroethene           | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| cis-1,2-Dichloroethene       | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| trans-1,2-Dichloroethene     | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| 1,2-Dichloropropane          | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| cis-1,3-Dichloropropene      | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| trans-1,3-Dichloropropene    | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| Freon 113                    | ND             | H                 | 5000             | 1          | 07/03/2014 16:54     |
| Methylene chloride           | 390            | H                 | 250              | 1          | 07/03/2014 16:54     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| 1,1,1,2,2-Tetrachloroethane  | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| Tetrachloroethene            | 6500           | H                 | 250              | 1          | 07/03/2014 16:54     |
| 1,1,1-Trichloroethane        | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| 1,1,2-Trichloroethane        | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| Trichloroethene              | 600            | H                 | 250              | 1          | 07/03/2014 16:54     |
| Trichlorofluoromethane       | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| Vinyl Chloride               | ND             | H                 | 250              | 1          | 07/03/2014 16:54     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 100            | H                 | 70-130           |            | 07/03/2014 16:54     |
| Toluene-d8                   | 92             | H                 | 70-130           |            | 07/03/2014 16:54     |
| 4-BFB                        | 106            | H                 | 70-130           |            | 07/03/2014 16:54     |

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 7/3/14 9:23  
**Date Prepared:** 7/3/14

**WorkOrder:** 1407106  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SVE INF                      | 1407106-002A   | Air               | 07/03/2014 06:30 | GC38       | 92400                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| Bromoform                    | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| Bromomethane                 | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| Carbon Tetrachloride         | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| Chlorobenzene                | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| Chloroethane                 | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| Chloroform                   | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| Chloromethane                | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| Dibromochloromethane         | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| 1,2-Dichlorobenzene          | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| 1,3-Dichlorobenzene          | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| 1,4-Dichlorobenzene          | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| Dichlorodifluoromethane      | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| 1,1-Dichloroethane           | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| 1,1-Dichloroethene           | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| cis-1,2-Dichloroethene       | <b>34,000</b>  | H                 | 2500             | 10         | 07/03/2014 21:41     |
| trans-1,2-Dichloroethene     | <b>5400</b>    | H                 | 2500             | 10         | 07/03/2014 21:41     |
| 1,2-Dichloropropane          | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| cis-1,3-Dichloropropene      | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| trans-1,3-Dichloropropene    | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| Freon 113                    | ND             | H                 | 50,000           | 10         | 07/03/2014 21:41     |
| Methylene chloride           | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| Tetrachloroethene            | <b>110,000</b> | H                 | 2500             | 10         | 07/03/2014 21:41     |
| 1,1,1-Trichloroethane        | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| 1,1,2-Trichloroethane        | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| Trichloroethene              | <b>33,000</b>  | H                 | 2500             | 10         | 07/03/2014 21:41     |
| Trichlorofluoromethane       | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| Vinyl Chloride               | ND             | H                 | 2500             | 10         | 07/03/2014 21:41     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 102            | H                 | 70-130           |            | 07/03/2014 21:41     |
| Toluene-d8                   | 91             | H                 | 70-130           |            | 07/03/2014 21:41     |
| 4-BFB                        | 101            | H                 | 70-130           |            | 07/03/2014 21:41     |

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## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 7/3/14 9:23  
**Date Prepared:** 7/3/14

**WorkOrder:** 1407106  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| COMB INF                     | 1407106-003A   | Air               | 07/03/2014 06:20 | GC38       | 92400                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| Bromoform                    | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| Bromomethane                 | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| Carbon Tetrachloride         | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| Chlorobenzene                | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| Chloroethane                 | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| Chloroform                   | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| Chloromethane                | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| Dibromochloromethane         | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| 1,2-Dichlorobenzene          | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| 1,3-Dichlorobenzene          | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| 1,4-Dichlorobenzene          | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| Dichlorodifluoromethane      | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| 1,1-Dichloroethane           | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| 1,1-Dichloroethene           | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| cis-1,2-Dichloroethene       | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| trans-1,2-Dichloroethene     | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| 1,2-Dichloropropane          | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| cis-1,3-Dichloropropene      | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| trans-1,3-Dichloropropene    | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| Freon 113                    | ND             | H                 | 5000             | 1          | 07/03/2014 22:21     |
| Methylene chloride           | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| Tetrachloroethene            | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| 1,1,1-Trichloroethane        | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| 1,1,2-Trichloroethane        | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| Trichloroethene              | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| Trichlorofluoromethane       | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| Vinyl Chloride               | ND             | H                 | 250              | 1          | 07/03/2014 22:21     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 100            | H                 | 70-130           |            | 07/03/2014 22:21     |
| Toluene-d8                   | 91             | H                 | 70-130           |            | 07/03/2014 22:21     |
| 4-BFB                        | 100            | H                 | 70-130           |            | 07/03/2014 22:21     |

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## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 7/3/14 9:23  
**Date Prepared:** 7/3/14

**WorkOrder:** 1407106  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| COMB MID                     | 1407106-004A   | Air               | 07/03/2014 06:10 | GC38       | 92400                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| Bromoform                    | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| Bromomethane                 | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| Carbon Tetrachloride         | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| Chlorobenzene                | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| Chloroethane                 | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| Chloroform                   | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| Chloromethane                | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| Dibromochloromethane         | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| 1,2-Dichlorobenzene          | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| 1,3-Dichlorobenzene          | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| 1,4-Dichlorobenzene          | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| Dichlorodifluoromethane      | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| 1,1-Dichloroethane           | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| 1,1-Dichloroethene           | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| cis-1,2-Dichloroethene       | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| trans-1,2-Dichloroethene     | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| 1,2-Dichloropropane          | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| cis-1,3-Dichloropropene      | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| trans-1,3-Dichloropropene    | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| Freon 113                    | ND             | H                 | 5000             | 1          | 07/03/2014 18:57     |
| Methylene chloride           | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| Tetrachloroethene            | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| 1,1,1-Trichloroethane        | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| 1,1,2-Trichloroethane        | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| Trichloroethene              | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| Trichlorofluoromethane       | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| Vinyl Chloride               | ND             | H                 | 250              | 1          | 07/03/2014 18:57     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 104            | H                 | 70-130           |            | 07/03/2014 18:57     |
| Toluene-d8                   | 90             | H                 | 70-130           |            | 07/03/2014 18:57     |
| 4-BFB                        | 102            | H                 | 70-130           |            | 07/03/2014 18:57     |



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 7/3/14 9:23  
**Date Prepared:** 7/3/14

**WorkOrder:** 1407106  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| SSD INF                      | 1407106-001A   | Air               | 07/03/2014 06:40 | GC38       | 92400                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| Bromoform                    | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| Bromomethane                 | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| Carbon Tetrachloride         | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| Chlorobenzene                | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| Chloroethane                 | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| Chloroform                   | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| Chloromethane                | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| Dibromochloromethane         | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| 1,2-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| 1,3-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| 1,4-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| Dichlorodifluoromethane      | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| 1,1-Dichloroethane           | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| 1,1-Dichloroethene           | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| cis-1,2-Dichloroethene       | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| trans-1,2-Dichloroethene     | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| 1,2-Dichloropropane          | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| cis-1,3-Dichloropropene      | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| trans-1,3-Dichloropropene    | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| Freon 113                    | ND             | H                 | 5.0              | 1          | 07/03/2014 16:54     |
| Methylene chloride           | <b>0.39</b>    | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| Tetrachloroethene            | <b>6.5</b>     | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| 1,1,1-Trichloroethane        | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| 1,1,2-Trichloroethane        | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| Trichloroethene              | <b>0.60</b>    | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| Trichlorofluoromethane       | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| Vinyl Chloride               | ND             | H                 | 0.25             | 1          | 07/03/2014 16:54     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 100            | H                 | 70-130           |            | 07/03/2014 16:54     |
| Toluene-d8                   | 92             | H                 | 70-130           |            | 07/03/2014 16:54     |
| 4-BFB                        | 106            | H                 | 70-130           |            | 07/03/2014 16:54     |

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## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 7/3/14 9:23  
**Date Prepared:** 7/3/14

**WorkOrder:** 1407106  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID              | Matrix/ExtType    | Date Collected          | Instrument  | Batch ID             |
|------------------------------|---------------------|-------------------|-------------------------|-------------|----------------------|
| <b>SVE INF</b>               | <b>1407106-002A</b> | <b>Air</b>        | <b>07/03/2014 06:30</b> | <b>GC38</b> | <b>92400</b>         |
| <u>Analytes</u>              | <u>Result</u>       | <u>Qualifiers</u> | <u>RL</u>               | <u>DF</u>   | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| Bromoform                    | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| Bromomethane                 | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| Carbon Tetrachloride         | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| Chlorobenzene                | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| Chloroethane                 | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| Chloroform                   | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| Chloromethane                | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| Dibromochloromethane         | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| 1,2-Dibromoethane (EDB)      | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| 1,2-Dichlorobenzene          | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| 1,3-Dichlorobenzene          | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| 1,4-Dichlorobenzene          | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| Dichlorodifluoromethane      | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| 1,1-Dichloroethane           | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| 1,2-Dichloroethane (1,2-DCA) | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| 1,1-Dichloroethene           | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| cis-1,2-Dichloroethene       | <b>34</b>           | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| trans-1,2-Dichloroethene     | <b>5.4</b>          | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| 1,2-Dichloropropane          | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| cis-1,3-Dichloropropene      | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| trans-1,3-Dichloropropene    | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| Freon 113                    | ND                  | H                 | 50                      | 10          | 07/03/2014 21:41     |
| Methylene chloride           | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| 1,1,1,2-Tetrachloroethane    | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| 1,1,2,2-Tetrachloroethane    | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| Tetrachloroethene            | <b>110</b>          | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| 1,1,1-Trichloroethane        | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| 1,1,2-Trichloroethane        | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| Trichloroethene              | <b>33</b>           | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| Trichlorofluoromethane       | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| Vinyl Chloride               | ND                  | H                 | 2.5                     | 10          | 07/03/2014 21:41     |
| <u>Surrogates</u>            | <u>REC (%)</u>      | <u>Qualifiers</u> | <u>Limits</u>           |             |                      |
| Dibromofluoromethane         | 102                 | H                 | 70-130                  |             | 07/03/2014 21:41     |
| Toluene-d8                   | 91                  | H                 | 70-130                  |             | 07/03/2014 21:41     |
| 4-BFB                        | 101                 | H                 | 70-130                  |             | 07/03/2014 21:41     |

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## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 7/3/14 9:23  
**Date Prepared:** 7/3/14

**WorkOrder:** 1407106  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID              | Matrix/ExtType | Date Collected          | Instrument  | Batch ID         |
|------------------------------|---------------------|----------------|-------------------------|-------------|------------------|
| <b>COMB INF</b>              | <b>1407106-003A</b> | <b>Air</b>     | <b>07/03/2014 06:20</b> | <b>GC38</b> | <b>92400</b>     |
| Analytes                     | Result              | Qualifiers     | RL                      | DF          | Date Analyzed    |
| Bromodichloromethane         | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| Bromoform                    | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| Bromomethane                 | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| Carbon Tetrachloride         | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| Chlorobenzene                | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| Chloroethane                 | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| Chloroform                   | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| Chloromethane                | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| Dibromochloromethane         | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| 1,2-Dibromoethane (EDB)      | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| 1,2-Dichlorobenzene          | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| 1,3-Dichlorobenzene          | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| 1,4-Dichlorobenzene          | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| Dichlorodifluoromethane      | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| 1,1-Dichloroethane           | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| 1,2-Dichloroethane (1,2-DCA) | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| 1,1-Dichloroethene           | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| cis-1,2-Dichloroethene       | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| trans-1,2-Dichloroethene     | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| 1,2-Dichloropropane          | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| cis-1,3-Dichloropropene      | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| trans-1,3-Dichloropropene    | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| Freon 113                    | ND                  | H              | 5.0                     | 1           | 07/03/2014 22:21 |
| Methylene chloride           | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| 1,1,1,2-Tetrachloroethane    | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| 1,1,2,2-Tetrachloroethane    | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| Tetrachloroethene            | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| 1,1,1-Trichloroethane        | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| 1,1,2-Trichloroethane        | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| Trichloroethene              | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| Trichlorofluoromethane       | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| Vinyl Chloride               | ND                  | H              | 0.25                    | 1           | 07/03/2014 22:21 |
| Surrogates                   | REC (%)             | Qualifiers     | Limits                  |             |                  |
| Dibromofluoromethane         | 100                 | H              | 70-130                  |             | 07/03/2014 22:21 |
| Toluene-d8                   | 91                  | H              | 70-130                  |             | 07/03/2014 22:21 |
| 4-BFB                        | 100                 | H              | 70-130                  |             | 07/03/2014 22:21 |

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 7/3/14 9:23  
**Date Prepared:** 7/3/14

**WorkOrder:** 1407106  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID         | Matrix/ExtType    | Date Collected   | Instrument | Batch ID             |
|------------------------------|----------------|-------------------|------------------|------------|----------------------|
| COMB MID                     | 1407106-004A   | Air               | 07/03/2014 06:10 | GC38       | 92400                |
| <u>Analytes</u>              | <u>Result</u>  | <u>Qualifiers</u> | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| Bromodichloromethane         | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| Bromoform                    | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| Bromomethane                 | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| Carbon Tetrachloride         | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| Chlorobenzene                | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| Chloroethane                 | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| Chloroform                   | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| Chloromethane                | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| Dibromochloromethane         | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| 1,2-Dibromoethane (EDB)      | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| 1,2-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| 1,3-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| 1,4-Dichlorobenzene          | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| Dichlorodifluoromethane      | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| 1,1-Dichloroethane           | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| 1,2-Dichloroethane (1,2-DCA) | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| 1,1-Dichloroethene           | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| cis-1,2-Dichloroethene       | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| trans-1,2-Dichloroethene     | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| 1,2-Dichloropropane          | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| cis-1,3-Dichloropropene      | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| trans-1,3-Dichloropropene    | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| Freon 113                    | ND             | H                 | 5.0              | 1          | 07/03/2014 18:57     |
| Methylene chloride           | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| 1,1,1,2-Tetrachloroethane    | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| 1,1,2,2-Tetrachloroethane    | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| Tetrachloroethene            | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| 1,1,1-Trichloroethane        | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| 1,1,2-Trichloroethane        | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| Trichloroethene              | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| Trichlorofluoromethane       | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| Vinyl Chloride               | ND             | H                 | 0.25             | 1          | 07/03/2014 18:57     |
| <u>Surrogates</u>            | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u>    |            |                      |
| Dibromofluoromethane         | 104            | H                 | 70-130           |            | 07/03/2014 18:57     |
| Toluene-d8                   | 90             | H                 | 70-130           |            | 07/03/2014 18:57     |
| 4-BFB                        | 102            | H                 | 70-130           |            | 07/03/2014 18:57     |



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 7/5/14  
**Date Analyzed:** 7/3/14  
**Instrument:** GC38  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1407106  
**BatchID:** 92400  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-92400  
 1407049-004CMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 18.7       | 0.50 | 20      | -          | 93.6     | 70-130     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 18.0       | 0.50 | 20      | -          | 89.9     | 70-130     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 15.6       | 0.50 | 20      | -          | 77.8     | 70-130     |
| 1,1-Dichloroethene            | ND        | 19.8       | 0.50 | 20      | -          | 99       | 70-130     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



## Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 7/5/14  
**Date Analyzed:** 7/3/14  
**Instrument:** GC38  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1407106  
**BatchID:** 92400  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-92400  
 1407049-004CMS/MSD

### QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 18.8       | 0.50 | 20      | -          | 94       | 70-130     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |

#### Surrogate Recovery

|                      |      |      |  |     |     |     |        |
|----------------------|------|------|--|-----|-----|-----|--------|
| Dibromofluoromethane | 25.0 | 45.9 |  | 45  | 100 | 102 | 70-130 |
| Toluene-d8           | 23.0 | 40.6 |  | 45  | 92  | 90  | 70-130 |
| 4-BFB                | 2.70 | 4.89 |  | 4.5 | 108 | 109 | 70-130 |

(Cont.)



## Quality Control Report

|                                          |                                                      |
|------------------------------------------|------------------------------------------------------|
| <b>Client:</b> AEI Consultants           | <b>WorkOrder:</b> 1407106                            |
| <b>Date Prepared:</b> 7/5/14             | <b>BatchID:</b> 92400                                |
| <b>Date Analyzed:</b> 7/3/14             | <b>Extraction Method:</b> SW5030B                    |
| <b>Instrument:</b> GC38                  | <b>Analytical Method:</b> SW8260B                    |
| <b>Matrix:</b> Water                     | <b>Unit:</b> µg/L                                    |
| <b>Project:</b> #261829; Foothill Square | <b>Sample ID:</b> MB/LCS-92400<br>1407049-004CMS/MSD |

### QC Summary Report for SW8260B

| Analyte                      | MS<br>Result | MSD<br>Result | SPK<br>Val | SPKRef<br>Val | MS<br>%REC | MSD<br>%REC | MS/MSD<br>Limits | RPD  | RPD<br>Limit |
|------------------------------|--------------|---------------|------------|---------------|------------|-------------|------------------|------|--------------|
| Chlorobenzene                | NR           | NR            | 20         | ND<5.0        | NR         | NR          | 70-130           | NR   | 20           |
| 1,2-Dibromoethane (EDB)      | NR           | NR            | 20         | ND<5.0        | NR         | NR          | 70-130           | NR   | 20           |
| 1,2-Dichloroethane (1,2-DCA) | NR           | NR            | 20         | ND<5.0        | NR         | NR          | 70-130           | NR   | 20           |
| 1,1-Dichloroethene           | NR           | NR            | 20         | ND<5.0        | NR         | NR          | 70-130           | NR   | 20           |
| Trichloroethene              | NR           | NR            | 20         | ND<5.0        | NR         | NR          | 70-130           | NR   | 20           |
| <b>Surrogate Recovery</b>    |              |               |            |               |            |             |                  |      |              |
| Dibromofluoromethane         | 47.9         | 49.0          | 45         |               | 106        | 109         | 70-130           | 2.35 | 20           |
| Toluene-d8                   | 41.1         | 41.6          | 45         |               | 91         | 92          | 70-130           | 1.05 | 20           |
| 4-BFB                        | 4.81         | 4.90          | 4.5        |               | 107        | 109         | 70-130           | 1.99 | 20           |

1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262



# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1407106

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQuIS   
 Email   
 HardCopy   
 ThirdParty   
 J-flag

**Report to:**  
 Jeremy Smith  
 AEI Consultants  
 2500 Camino Diablo, Ste.#200  
 Walnut Creek, CA 94597  
 (925) 283-6000    FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com  
 cc/3rd Party:  
 PO: #60548  
 ProjectNo: #261829; Foothill Square

**Bill to:**  
 Sara Guerin  
 AEI Consultants  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597  
 AccountsPayable@AEIConsultants.co

**Requested TAT: 5 days**  
  
**Date Received: 07/03/2014**  
**Date Printed: 07/03/2014**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 1407106-001 | SSD INF   | Air    | 7/3/2014 6:40   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1407106-002 | SVE INF   | Air    | 7/3/2014 6:30   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1407106-003 | COMB INF  | Air    | 7/3/2014 6:20   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 1407106-004 | COMB MID  | Air    | 7/3/2014 6:10   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |           |    |  |   |  |   |  |    |  |
|----|-----------|----|--|---|--|---|--|----|--|
| 1  | 8010BMS_A | 2  |  | 3 |  | 4 |  | 5  |  |
| 6  |           | 7  |  | 8 |  | 9 |  | 10 |  |
| 11 |           | 12 |  |   |  |   |  |    |  |

**Prepared by: Maria Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS  
**Project:** #261829; Foothill Square  
**Comments:**

**QC Level:** LEVEL 2  
**Client Contact:** Jeremy Smith  
**Contact's Email:** jasmith@aeiconsultants.com

**Work Order:** 1407106  
**Date Received:** 7/3/2014

WaterTrax     WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

| Lab ID       | Client ID | Matrix | Test Name            | Number of Containers | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT    | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|----------------------|----------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1407106-001A | SSD INF   | Air    | SW8260B (HVOCs List) | 1                    | Tedlar                | <input type="checkbox"/> | 7/3/2014 6:40          | 5 days |                  | <input type="checkbox"/> |        |
| 1407106-002A | SVE INF   | Air    | SW8260B (HVOCs List) | 1                    | Tedlar                | <input type="checkbox"/> | 7/3/2014 6:30          | 5 days |                  | <input type="checkbox"/> |        |
| 1407106-003A | COMB INF  | Air    | SW8260B (HVOCs List) | 1                    | Tedlar                | <input type="checkbox"/> | 7/3/2014 6:20          | 5 days |                  | <input type="checkbox"/> |        |
| 1407106-004A | COMB MID  | Air    | SW8260B (HVOCs List) | 1                    | Tedlar                | <input type="checkbox"/> | 7/3/2014 6:10          | 5 days |                  | <input type="checkbox"/> |        |

**\* NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

**Bottle Legend:**

Tedlar = Tedlar Air Bag

1407106

**McCAMPBELL ANALYTICAL INC.**

1534 Willow Pass Road  
Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

**CHAIN OF CUSTODY RECORD**

**TURN AROUND TIME**

RUSH 24 HR  48 HR  72 HR  5 DAY

EDF Required?  Yes  No

Report To: Jeremy Smith Bill To: same P.O. # 60548

Company: AEI Consultants

2500 Camino Diablo

Walnut Creek, CA 94597

E-Mail: jasmith@aeiconsultants.com

Tele: (925) 746-6000

Fax: (925) 746-6099

Project #: 261829

Project Name: Foothill Square

Project Location: 10700 MacArthur Blvd. Oakland, CA

Sampler Signature: *John Sigg*

**Analysis Request**

**Other**

**Comments**

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |  |  |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |  |  |
| SSD INF                         |          | 7.3-14   | 0640 | 1            | Tb              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |
| SVE INF                         |          |          | 0630 | 1            | Tb              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |
| COMB INF                        |          |          | 0620 | 1            | Tb              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |
| COMB MID                        |          |          | 0610 | 1            | Tb              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |

BTEX & TPH as Gas (602/8020 + 8015)/MTBE  
 TPH as Diesel (8015) w/silica Gel Cleanup  
 Total Petroleum Oil & Grease (5520 E&F/B&F)  
 Total Petroleum Hydrocarbons (418.1)  
 HVOCs EPA 8260  
 BTEX ONLY (EPA 602 / 8020)  
 EPA 608 / 8080  
 EPA 608 / 8080 PCB's ONLY  
 EPA 624 / 8260  
 EPA 625 / 8270  
 PAH's / PNA's by EPA 625 / 8270 / 8310  
 CAM-17 Metals  
 LUFT 5 Metals  
 Lead (7240/7421/239.2/6010)  
 RCI

|                                   |              |            |                          |
|-----------------------------------|--------------|------------|--------------------------|
| Relinquished By: <i>John Sigg</i> | Date: 7-3-14 | Time: 0820 | Received By: <i>M...</i> |
| Relinquished By:                  | Date:        | Time:      | Received By:             |
| Relinquished By:                  | Date:        | Time:      | Received By:             |

ICE/t° NA  
 GOOD CONDITION   
 HEAD SPACE ABSENT   
 DECHLORINATED IN LAB  PRESERVED IN LAB

PRESERVATION APPROPRIATE   
 CONTAINERS

VOAS  O&G  METALS  OTHER





### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **7/3/2014 9:23:30 AM**  
 Project Name: **#261829; Foothill Square** LogIn Reviewed by: **Maria Venegas**  
 WorkOrder No: **1407106** Matrix: Air Carrier: Client Drop-In

**Chain of Custody (COC) Information**

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
 Container/Temp Blank temperature Cooler Temp: NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 pH acceptable upon receipt (Metal: pH<2; 522: pH<4)? Yes  No  NA   
 Samples Received on Ice? Yes  No

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1408303

**Report Created for:** AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597

**Project Contact:** Jeremy Smith  
**Project P.O.:** #63955  
**Project Name:** #261829; Foothill Square

**Project Received:** 08/11/2014

Analytical Report reviewed & approved for release on 08/15/2014 by:

Question about  
your data?

[Click here to email  
McC Campbell](#)

Angela Rydelius,  
Laboratory Manager

***The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.***





## Glossary of Terms & Qualifier Definitions

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**WorkOrder:** 1408303

### Glossary Abbreviation

|              |                                                                                                                                                                                                     |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 95% Interval | 95% Confident Interval                                                                                                                                                                              |
| DF           | Dilution Factor                                                                                                                                                                                     |
| DUP          | Duplicate                                                                                                                                                                                           |
| EDL          | Estimated Detection Limit                                                                                                                                                                           |
| ITEF         | International Toxicity Equivalence Factor                                                                                                                                                           |
| LCS          | Laboratory Control Sample                                                                                                                                                                           |
| MB           | Method Blank                                                                                                                                                                                        |
| MB % Rec     | % Recovery of Surrogate in Method Blank, if applicable                                                                                                                                              |
| MDL          | Method Detection Limit                                                                                                                                                                              |
| ML           | Minimum Level of Quantitation                                                                                                                                                                       |
| MS           | Matrix Spike                                                                                                                                                                                        |
| MSD          | Matrix Spike Duplicate                                                                                                                                                                              |
| ND           | Not detected at or above the indicated MDL or RL                                                                                                                                                    |
| NR           | Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content. |
| PF           | Prep Factor                                                                                                                                                                                         |
| RD           | Relative Difference                                                                                                                                                                                 |
| RL           | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)                                                                                                            |
| RPD          | Relative Percent Deviation                                                                                                                                                                          |
| RRT          | Relative Retention Time                                                                                                                                                                             |
| SPK Val      | Spike Value                                                                                                                                                                                         |
| SPKRef Val   | Spike Reference Value                                                                                                                                                                               |
| TEQ          | Toxicity Equivalence                                                                                                                                                                                |

### Analytical Qualifiers

H samples were analyzed out of holding time



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 8/11/14 10:02  
**Date Prepared:** 8/12/14

**WorkOrder:** 1408303  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID              | Matrix/ExtType | Date Collected          | Instrument  | Batch ID         |
|------------------------------|---------------------|----------------|-------------------------|-------------|------------------|
| <b>SVE INF</b>               | <b>1408303-001A</b> | <b>Air</b>     | <b>08/11/2014 06:50</b> | <b>GC10</b> | <b>93921</b>     |
| Analytes                     | Result              | Qualifiers     | RL                      | DF          | Date Analyzed    |
| Bromodichloromethane         | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| Bromoform                    | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| Bromomethane                 | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| Carbon Tetrachloride         | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| Chlorobenzene                | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| Chloroethane                 | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| Chloroform                   | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| Chloromethane                | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| Dibromochloromethane         | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| 1,2-Dibromoethane (EDB)      | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| 1,2-Dichlorobenzene          | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| 1,3-Dichlorobenzene          | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| 1,4-Dichlorobenzene          | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| Dichlorodifluoromethane      | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| 1,1-Dichloroethane           | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| 1,2-Dichloroethane (1,2-DCA) | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| 1,1-Dichloroethene           | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| cis-1,2-Dichloroethene       | <b>28,000</b>       | H              | 5000                    | 20          | 08/12/2014 14:34 |
| trans-1,2-Dichloroethene     | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| 1,2-Dichloropropane          | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| cis-1,3-Dichloropropene      | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| trans-1,3-Dichloropropene    | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| Freon 113                    | ND                  | H              | 100,000                 | 20          | 08/12/2014 14:34 |
| Methylene chloride           | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| 1,1,1,2-Tetrachloroethane    | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| 1,1,2,2-Tetrachloroethane    | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| Tetrachloroethene            | <b>98,000</b>       | H              | 5000                    | 20          | 08/12/2014 14:34 |
| 1,1,1-Trichloroethane        | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| 1,1,2-Trichloroethane        | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| Trichloroethene              | <b>27,000</b>       | H              | 5000                    | 20          | 08/12/2014 14:34 |
| Trichlorofluoromethane       | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| Vinyl Chloride               | ND                  | H              | 5000                    | 20          | 08/12/2014 14:34 |
| Surrogates                   | REC (%)             | Qualifiers     | Limits                  |             |                  |
| Dibromofluoromethane         | 98                  | H              | 70-130                  |             | 08/12/2014 14:34 |
| Toluene-d8                   | 98                  | H              | 70-130                  |             | 08/12/2014 14:34 |
| 4-BFB                        | 92                  | H              | 70-130                  |             | 08/12/2014 14:34 |

(Cont.)



# Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 8/11/14 10:02  
**Date Prepared:** 8/12/14

**WorkOrder:** 1408303  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD-INF   | 1408303-002A | Air            | 08/11/2014 06:40 | GC10       | 93921    |

| Analytes                     | Result      | Qualifiers | RL     | DF | Date Analyzed    |
|------------------------------|-------------|------------|--------|----|------------------|
| Bromodichloromethane         | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| Bromoform                    | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| Bromomethane                 | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| Carbon Tetrachloride         | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| Chlorobenzene                | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| Chloroethane                 | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| Chloroform                   | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| Chloromethane                | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| Dibromochloromethane         | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| 1,2-Dibromoethane (EDB)      | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| 1,2-Dichlorobenzene          | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| 1,3-Dichlorobenzene          | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| 1,4-Dichlorobenzene          | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| Dichlorodifluoromethane      | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| 1,1-Dichloroethane           | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| 1,2-Dichloroethane (1,2-DCA) | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| 1,1-Dichloroethene           | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| cis-1,2-Dichloroethene       | <b>280</b>  | H          | 250    | 1  | 08/12/2014 15:22 |
| trans-1,2-Dichloroethene     | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| 1,2-Dichloropropane          | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| cis-1,3-Dichloropropene      | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| trans-1,3-Dichloropropene    | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| Freon 113                    | ND          | H          | 5000   | 1  | 08/12/2014 15:22 |
| Methylene chloride           | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| 1,1,1,2-Tetrachloroethane    | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| 1,1,2,2-Tetrachloroethane    | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| Tetrachloroethene            | <b>6000</b> | H          | 250    | 1  | 08/12/2014 15:22 |
| 1,1,1-Trichloroethane        | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| 1,1,2-Trichloroethane        | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| Trichloroethene              | <b>700</b>  | H          | 250    | 1  | 08/12/2014 15:22 |
| Trichlorofluoromethane       | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| Vinyl Chloride               | ND          | H          | 250    | 1  | 08/12/2014 15:22 |
| Surrogates                   | REC (%)     | Qualifiers | Limits |    |                  |
| Dibromofluoromethane         | 98          | H          | 70-130 |    | 08/12/2014 15:22 |
| Toluene-d8                   | 97          | H          | 70-130 |    | 08/12/2014 15:22 |
| 4-BFB                        | 92          | H          | 70-130 |    | 08/12/2014 15:22 |



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 8/11/14 10:02  
**Date Prepared:** 8/12/14

**WorkOrder:** 1408303  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID      | Lab ID              | Matrix/ExtType | Date Collected          | Instrument  | Batch ID     |
|----------------|---------------------|----------------|-------------------------|-------------|--------------|
| <b>SVE INF</b> | <b>1408303-001A</b> | <b>Air</b>     | <b>08/11/2014 06:50</b> | <b>GC10</b> | <b>93921</b> |

| Analytes                     | Result    | Qualifiers | RL     | DF | Date Analyzed    |
|------------------------------|-----------|------------|--------|----|------------------|
| Bromodichloromethane         | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| Bromoform                    | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| Bromomethane                 | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| Carbon Tetrachloride         | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| Chlorobenzene                | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| Chloroethane                 | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| Chloroform                   | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| Chloromethane                | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| Dibromochloromethane         | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| 1,2-Dibromoethane (EDB)      | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| 1,2-Dichlorobenzene          | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| 1,3-Dichlorobenzene          | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| 1,4-Dichlorobenzene          | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| Dichlorodifluoromethane      | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| 1,1-Dichloroethane           | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| 1,2-Dichloroethane (1,2-DCA) | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| 1,1-Dichloroethene           | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| cis-1,2-Dichloroethene       | <b>28</b> | H          | 5.0    | 20 | 08/12/2014 14:34 |
| trans-1,2-Dichloroethene     | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| 1,2-Dichloropropane          | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| cis-1,3-Dichloropropene      | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| trans-1,3-Dichloropropene    | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| Freon 113                    | ND        | H          | 100    | 20 | 08/12/2014 14:34 |
| Methylene chloride           | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| 1,1,1,2-Tetrachloroethane    | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| 1,1,2,2-Tetrachloroethane    | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| Tetrachloroethene            | <b>98</b> | H          | 5.0    | 20 | 08/12/2014 14:34 |
| 1,1,1-Trichloroethane        | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| 1,1,2-Trichloroethane        | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| Trichloroethene              | <b>27</b> | H          | 5.0    | 20 | 08/12/2014 14:34 |
| Trichlorofluoromethane       | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| Vinyl Chloride               | ND        | H          | 5.0    | 20 | 08/12/2014 14:34 |
| Surrogates                   | REC (%)   | Qualifiers | Limits |    | Date Analyzed    |
| Dibromofluoromethane         | 98        | H          | 70-130 |    | 08/12/2014 14:34 |
| Toluene-d8                   | 98        | H          | 70-130 |    | 08/12/2014 14:34 |
| 4-BFB                        | 92        | H          | 70-130 |    | 08/12/2014 14:34 |

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 8/11/14 10:02  
**Date Prepared:** 8/12/14

**WorkOrder:** 1408303  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD-INF   | 1408303-002A | Air            | 08/11/2014 06:40 | GC10       | 93921    |

| Analytes                     | Result      | Qualifiers | RL     | DF | Date Analyzed    |
|------------------------------|-------------|------------|--------|----|------------------|
| Bromodichloromethane         | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| Bromoform                    | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| Bromomethane                 | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| Carbon Tetrachloride         | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| Chlorobenzene                | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| Chloroethane                 | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| Chloroform                   | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| Chloromethane                | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| Dibromochloromethane         | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| 1,2-Dibromoethane (EDB)      | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| 1,2-Dichlorobenzene          | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| 1,3-Dichlorobenzene          | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| 1,4-Dichlorobenzene          | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| Dichlorodifluoromethane      | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| 1,1-Dichloroethane           | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| 1,2-Dichloroethane (1,2-DCA) | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| 1,1-Dichloroethene           | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| cis-1,2-Dichloroethene       | <b>0.28</b> | H          | 0.25   | 1  | 08/12/2014 15:22 |
| trans-1,2-Dichloroethene     | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| 1,2-Dichloropropane          | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| cis-1,3-Dichloropropene      | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| trans-1,3-Dichloropropene    | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| Freon 113                    | ND          | H          | 5.0    | 1  | 08/12/2014 15:22 |
| Methylene chloride           | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| 1,1,1,2-Tetrachloroethane    | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| 1,1,1,2,2-Tetrachloroethane  | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| Tetrachloroethene            | <b>6.0</b>  | H          | 0.25   | 1  | 08/12/2014 15:22 |
| 1,1,1-Trichloroethane        | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| 1,1,2-Trichloroethane        | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| Trichloroethene              | <b>0.70</b> | H          | 0.25   | 1  | 08/12/2014 15:22 |
| Trichlorofluoromethane       | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| Vinyl Chloride               | ND          | H          | 0.25   | 1  | 08/12/2014 15:22 |
| Surrogates                   | REC (%)     | Qualifiers | Limits |    |                  |
| Dibromofluoromethane         | 98          | H          | 70-130 |    | 08/12/2014 15:22 |
| Toluene-d8                   | 97          | H          | 70-130 |    | 08/12/2014 15:22 |
| 4-BFB                        | 92          | H          | 70-130 |    | 08/12/2014 15:22 |



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 8/12/14  
**Date Analyzed:** 8/11/14  
**Instrument:** GC10  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1408303  
**BatchID:** 93921  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-93921  
 1408330-001AMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 18.9       | 0.50 | 20      | -          | 94.5     | 70-130     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 20.6       | 0.50 | 20      | -          | 103      | 70-130     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 20.7       | 0.50 | 20      | -          | 103      | 70-130     |
| 1,1-Dichloroethene            | ND        | 18.0       | 0.50 | 20      | -          | 89.9     | 70-130     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)





# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 8/12/14  
**Date Analyzed:** 8/11/14  
**Instrument:** GC10  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1408303  
**BatchID:** 93921  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-93921  
 1408330-001AMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 18.8       | 0.50 | 20      | -          | 94.1     | 70-130     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |
| <b>Surrogate Recovery</b>     |           |            |      |         |            |          |            |
| Dibromofluoromethane          | 24.2      | 25.3       |      | 25      | 97         | 101      | 70-130     |
| Toluene-d8                    | 24.7      | 26.4       |      | 25      | 99         | 106      | 70-130     |
| 4-BFB                         | 2.57      | 2.69       |      | 2.5     | 103        | 108      | 70-130     |

(Cont.)



## Quality Control Report

|                                          |                                                      |
|------------------------------------------|------------------------------------------------------|
| <b>Client:</b> AEI Consultants           | <b>WorkOrder:</b> 1408303                            |
| <b>Date Prepared:</b> 8/12/14            | <b>BatchID:</b> 93921                                |
| <b>Date Analyzed:</b> 8/11/14            | <b>Extraction Method:</b> SW5030B                    |
| <b>Instrument:</b> GC10                  | <b>Analytical Method:</b> SW8260B                    |
| <b>Matrix:</b> Water                     | <b>Unit:</b> µg/L                                    |
| <b>Project:</b> #261829; Foothill Square | <b>Sample ID:</b> MB/LCS-93921<br>1408330-001AMS/MSD |

### QC Summary Report for SW8260B

| Analyte                      | MS<br>Result | MSD<br>Result | SPK<br>Val | SPKRef<br>Val | MS<br>%REC | MSD<br>%REC | MS/MSD<br>Limits | RPD  | RPD<br>Limit |
|------------------------------|--------------|---------------|------------|---------------|------------|-------------|------------------|------|--------------|
| Chlorobenzene                | 19.7         | 18.3          | 20         | ND            | 98.6       | 91.4        | 70-130           | 7.58 | 20           |
| 1,2-Dibromoethane (EDB)      | 22.0         | 21.8          | 20         | ND            | 110        | 109         | 70-130           | 1.02 | 20           |
| 1,2-Dichloroethane (1,2-DCA) | 20.4         | 21.5          | 20         | ND            | 102        | 108         | 70-130           | 5.17 | 20           |
| 1,1-Dichloroethene           | 18.8         | 17.7          | 20         | ND            | 93.9       | 88.6        | 70-130           | 5.86 | 20           |
| Trichloroethene              | 19.4         | 17.7          | 20         | ND            | 97.3       | 88.5        | 70-130           | 9.45 | 20           |
| <b>Surrogate Recovery</b>    |              |               |            |               |            |             |                  |      |              |
| Dibromofluoromethane         | 25.6         | 26.1          | 25         |               | 103        | 104         | 70-130           | 1.67 | 20           |
| Toluene-d8                   | 25.2         | 25.5          | 25         |               | 101        | 102         | 70-130           | 1.14 | 20           |
| 4-BFB                        | 2.37         | 2.42          | 2.5        |               | 95         | 97          | 70-130           | 1.71 | 20           |



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1408303

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQuIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**

Jeremy Smith  
AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597  
(925) 283-6000    FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com  
cc/3rd Party:  
PO: #63955  
ProjectNo: #261829; Foothill Square

**Bill to:**

Sara Guerin  
AEI Consultants  
2500 Camino Diablo, Ste. #200  
Walnut Creek, CA 94597  
AccountsPayable@AEIConsultants.co

**Requested TAT:**

**5 days**

**Date Received: 08/11/2014**

**Date Printed: 08/15/2014**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 1408303-001 | SVE INF   | Air    | 8/11/2014 6:50  | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |
| 1408303-002 | SSD-INF   | Air    | 8/11/2014 6:40  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |           |    |              |   |  |   |  |    |  |
|----|-----------|----|--------------|---|--|---|--|----|--|
| 1  | 8010BMS_A | 2  | PREFD REPORT | 3 |  | 4 |  | 5  |  |
| 6  |           | 7  |              | 8 |  | 9 |  | 10 |  |
| 11 |           | 12 |              |   |  |   |  |    |  |

The following SamplIDs: 001A, 002A contain testgroup.

**Prepared by: Maria Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS  
**Project:** #261829; Foothill Square  
**Comments:**

**QC Level:** LEVEL 2  
**Client Contact:** Jeremy Smith  
**Contact's Email:** jasmith@aeiconsultants.com

**Work Order:** 1408303  
**Date Received:** 8/11/2014

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  Fax   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

| Lab ID       | Client ID | Matrix | Test Name     | Number of Containers | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT    | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|---------------|----------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1408303-001A | SVE INF   | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 8/11/2014 6:50         | 5 days |                  | <input type="checkbox"/> |        |
| 1408303-002A | SSD-INF   | Air    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 8/11/2014 6:40         | 5 days |                  | <input type="checkbox"/> |        |

**\* NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

**Bottle Legend:**

Tedlar = Tedlar Air Bag

1408303

**McCAMPBELL ANALYTICAL INC.**

1534 Willow Pass Road  
Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

**CHAIN OF CUSTODY RECORD**

**TURN AROUND TIME**

RUSH  24 HR  48 HR  72 HR  5 DAY

EDF Required?  Yes  No

Report To: **Jeremy Smith** Bill To: **same** P.O. # **63955**  
 Company: **AEI Consultants**  
**2500 Camino Diablo**  
**Walnut Creek, CA 94597** E-Mail: **jasmith@aeiconsultants.com**  
 Tele: **(925) 746-6000** Fax: **(925) 746-6099**  
 Project #: **261829** Project Name: **Foothill Square**  
 Project Location: **10700 MacArthur Blvd., Oakland, California**  
 Sampler Signature: *[Signature]*

Analysis Request Other Comments

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |  |  |  |  |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|--|--|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |  |  |  |  |
| SVE-INF                         |          | 8-11-14  | 0650 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |  |
| SSD-INF                         |          | 8-11-14  | 0640 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |  |

|                                                 |   |
|-------------------------------------------------|---|
| BTEX / MTBE 8021B                               |   |
| TPH Multi-Range (8015) w/silica Gel Cleanup     |   |
| TPHg Using EPA Method 8015                      |   |
| TPHg / TPHd 8015 with Silica Gel                |   |
| TPH as Hydraulic Oil w/ Silica Gel Cleanup 8015 |   |
| Benzene, Ethylbenzene, Naphthalene ( 8260)      |   |
| Nitrate/Nitrite                                 |   |
| EPA 608 / 8080 PCB's ONLY                       |   |
| HVOCs 8260, PCE, TCE, cis/trans, 1,2 DCE, VC    | X |
| SVOCs (with PAHs) 8270                          |   |
| PAH's / PNA's by EPA 625 / 8270 / 8310          |   |
| CAM-17 Metals by 6010                           |   |
| CAM -17 Metals by E200.8 (Dissolved).           |   |
| OC Pesticides EPA Method 8081                   |   |
| OC Acidic Herbicides EPA Method 8151            |   |
| HOLD                                            |   |

Relinquished By: *[Signature]* Date: **8-11-14** Time: **0601** Received By: *[Signature]*  
 Relinquished By: Date: Time: Received By:  
 Relinquished By: Date: Time: Received By:

ICE/t° **N/A** PRESERVATION VOAS O&G METALS OTHER  
 GOOD CONDITION \_\_\_\_\_ APPROPRIATE \_\_\_\_\_  
 HEAD SPACE ABSENT \_\_\_\_\_ CONTAINERS \_\_\_\_\_  
 DECHLORINATED IN LAB \_\_\_\_\_ PERSERVED IN LAB \_\_\_\_\_



### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **8/11/2014 10:02:52 AM**  
 Project Name: **#261829; Foothill Square** Login Reviewed by: **Maria Venegas**  
 WorkOrder No: **1408303** Matrix: Air Carrier: Client Drop-In

#### Chain of Custody (COC) Information

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

#### Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes  No   
 Container/Temp Blank temperature Cooler Temp: NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 pH acceptable upon receipt (Metal: pH<2; 522: pH<4)? Yes  No  NA   
 Samples Received on Ice? Yes  No

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1409369

**Report Created for:** AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597

**Project Contact:** Jeremy Smith  
**Project P.O.:**  
**Project Name:** #261829; Foothill Square

**Project Received:** 09/12/2014

Analytical Report reviewed & approved for release on 09/18/2014 by:

*Question about  
your data?*

[Click here to email  
McC Campbell](#)

Angela Rydelius,  
Laboratory Manager

***The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.***





## Glossary of Terms & Qualifier Definitions

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**WorkOrder:** 1409369

### Glossary Abbreviation

|              |                                                                                                                                                                                                     |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 95% Interval | 95% Confident Interval                                                                                                                                                                              |
| DF           | Dilution Factor                                                                                                                                                                                     |
| DUP          | Duplicate                                                                                                                                                                                           |
| EDL          | Estimated Detection Limit                                                                                                                                                                           |
| ITEF         | International Toxicity Equivalence Factor                                                                                                                                                           |
| LCS          | Laboratory Control Sample                                                                                                                                                                           |
| MB           | Method Blank                                                                                                                                                                                        |
| MB % Rec     | % Recovery of Surrogate in Method Blank, if applicable                                                                                                                                              |
| MDL          | Method Detection Limit                                                                                                                                                                              |
| ML           | Minimum Level of Quantitation                                                                                                                                                                       |
| MS           | Matrix Spike                                                                                                                                                                                        |
| MSD          | Matrix Spike Duplicate                                                                                                                                                                              |
| ND           | Not detected at or above the indicated MDL or RL                                                                                                                                                    |
| NR           | Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content. |
| PF           | Prep Factor                                                                                                                                                                                         |
| RD           | Relative Difference                                                                                                                                                                                 |
| RL           | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)                                                                                                            |
| RPD          | Relative Percent Deviation                                                                                                                                                                          |
| RRT          | Relative Retention Time                                                                                                                                                                             |
| SPK Val      | Spike Value                                                                                                                                                                                         |
| SPKRef Val   | Spike Reference Value                                                                                                                                                                               |
| TEQ          | Toxicity Equivalence                                                                                                                                                                                |

### Analytical Qualifiers

H samples were analyzed out of holding time





## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 9/12/14 12:09  
**Date Prepared:** 9/12/14

**WorkOrder:** 1409369  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD-INF   | 1409369-001A | Air            | 09/12/2014 08:40 | GC28       | 95185    |

| Analytes                 | Result         | RL            | DF | Date Analyzed    |
|--------------------------|----------------|---------------|----|------------------|
| 1,2-Dibromoethane (EDB)  | ND             | 250           | 1  | 09/12/2014 14:05 |
| cis-1,2-Dichloroethene   | ND             | 250           | 1  | 09/12/2014 14:05 |
| trans-1,2-Dichloroethene | ND             | 250           | 1  | 09/12/2014 14:05 |
| Tetrachloroethene        | <b>6100</b>    | 250           | 1  | 09/12/2014 14:05 |
| Trichloroethene          | <b>510</b>     | 250           | 1  | 09/12/2014 14:05 |
| Vinyl Chloride           | ND             | 250           | 1  | 09/12/2014 14:05 |
| <u>Surrogates</u>        | <u>REC (%)</u> | <u>Limits</u> |    |                  |
| Dibromofluoromethane     | 101            | 70-130        |    | 09/12/2014 14:05 |
| Toluene-d8               | 92             | 70-130        |    | 09/12/2014 14:05 |
| 4-BFB                    | 83             | 70-130        |    | 09/12/2014 14:05 |

Analyst(s): KBO

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-INF   | 1409369-002A | Air            | 09/12/2014 08:50 | GC28       | 95185    |

| Analytes                 | Result         | Qualifiers        | RL            | DF | Date Analyzed    |
|--------------------------|----------------|-------------------|---------------|----|------------------|
| 1,2-Dibromoethane (EDB)  | ND             | H                 | 2500          | 10 | 09/12/2014 16:32 |
| cis-1,2-Dichloroethene   | <b>25,000</b>  | H                 | 2500          | 10 | 09/12/2014 16:32 |
| trans-1,2-Dichloroethene | <b>3500</b>    | H                 | 2500          | 10 | 09/12/2014 16:32 |
| Tetrachloroethene        | <b>130,000</b> | H                 | 2500          | 10 | 09/12/2014 16:32 |
| Trichloroethene          | <b>26,000</b>  | H                 | 2500          | 10 | 09/12/2014 16:32 |
| Vinyl Chloride           | ND             | H                 | 2500          | 10 | 09/12/2014 16:32 |
| <u>Surrogates</u>        | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> |    |                  |
| Dibromofluoromethane     | 108            | H                 | 70-130        |    | 09/12/2014 16:32 |
| Toluene-d8               | 94             | H                 | 70-130        |    | 09/12/2014 16:32 |
| 4-BFB                    | 87             | H                 | 70-130        |    | 09/12/2014 16:32 |

Analyst(s): KBO



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 9/12/14 12:09  
**Date Prepared:** 9/12/14

**WorkOrder:** 1409369  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD-INF   | 1409369-001A | Air            | 09/12/2014 08:40 | GC28       | 95185    |

| Analytes                 | Result  | RL     | DF | Date Analyzed    |
|--------------------------|---------|--------|----|------------------|
| 1,2-Dibromoethane (EDB)  | ND      | 0.25   | 1  | 09/12/2014 14:05 |
| cis-1,2-Dichloroethene   | ND      | 0.25   | 1  | 09/12/2014 14:05 |
| trans-1,2-Dichloroethene | ND      | 0.25   | 1  | 09/12/2014 14:05 |
| Tetrachloroethene        | 6.1     | 0.25   | 1  | 09/12/2014 14:05 |
| Trichloroethene          | 0.51    | 0.25   | 1  | 09/12/2014 14:05 |
| Vinyl Chloride           | ND      | 0.25   | 1  | 09/12/2014 14:05 |
| Surrogates               | REC (%) | Limits |    |                  |
| Dibromofluoromethane     | 101     | 70-130 |    | 09/12/2014 14:05 |
| Toluene-d8               | 92      | 70-130 |    | 09/12/2014 14:05 |
| 4-BFB                    | 83      | 70-130 |    | 09/12/2014 14:05 |

Analyst(s): KBO

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-INF   | 1409369-002A | Air            | 09/12/2014 08:50 | GC28       | 95185    |

| Analytes                 | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------|------------|--------|----|------------------|
| 1,2-Dibromoethane (EDB)  | ND      | H          | 2.5    | 10 | 09/12/2014 16:32 |
| cis-1,2-Dichloroethene   | 25      | H          | 2.5    | 10 | 09/12/2014 16:32 |
| trans-1,2-Dichloroethene | 3.5     | H          | 2.5    | 10 | 09/12/2014 16:32 |
| Tetrachloroethene        | 130     | H          | 2.5    | 10 | 09/12/2014 16:32 |
| Trichloroethene          | 26      | H          | 2.5    | 10 | 09/12/2014 16:32 |
| Vinyl Chloride           | ND      | H          | 2.5    | 10 | 09/12/2014 16:32 |
| Surrogates               | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 108     | H          | 70-130 |    | 09/12/2014 16:32 |
| Toluene-d8               | 94      | H          | 70-130 |    | 09/12/2014 16:32 |
| 4-BFB                    | 87      | H          | 70-130 |    | 09/12/2014 16:32 |

Analyst(s): KBO



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 9/12/14  
**Date Analyzed:** 9/12/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1409369  
**BatchID:** 95185  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-95185  
 1409309-003AMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 10.3       | 0.50 | 10      | -          | 103      | 77-116     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 9.68       | 0.50 | 10      | -          | 97       | 88-111     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 8.50       | 0.50 | 10      | -          | 85       | 37-150     |
| 1,1-Dichloroethene            | ND        | 9.49       | 0.50 | 10      | -          | 95       | 37-153     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



## Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 9/12/14  
**Date Analyzed:** 9/12/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1409369  
**BatchID:** 95185  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-95185  
 1409309-003AMS/MSD

### QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 10.0       | 0.50 | 10      | -          | 101      | 67-133     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |

#### Surrogate Recovery

|                      |      |      |  |     |     |     |        |
|----------------------|------|------|--|-----|-----|-----|--------|
| Dibromofluoromethane | 25.7 | 25.3 |  | 25  | 103 | 101 | 77-120 |
| Toluene-d8           | 22.6 | 23.3 |  | 25  | 90  | 93  | 78-118 |
| 4-BFB                | 2.01 | 2.06 |  | 2.5 | 80  | 82  | 63-129 |

(Cont.)



## Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 9/12/14  
**Date Analyzed:** 9/12/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1409369  
**BatchID:** 95185  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-95185  
 1409309-003AMS/MSD

### QC Summary Report for SW8260B

| Analyte                      | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|------------------------------|-----------|------------|---------|------------|---------|----------|---------------|-----|-----------|
| Chlorobenzene                | NR        | NR         | 0       | ND         | NR      | NR       | -             | NR  |           |
| 1,2-Dibromoethane (EDB)      | NR        | NR         | 0       | ND         | NR      | NR       | -             | NR  |           |
| 1,2-Dichloroethane (1,2-DCA) | NR        | NR         | 0       | ND         | NR      | NR       | -             | NR  |           |
| 1,1-Dichloroethene           | NR        | NR         | 0       | ND         | NR      | NR       | -             | NR  |           |
| Trichloroethene              | NR        | NR         | 0       | ND         | NR      | NR       | -             | NR  |           |
| <b>Surrogate Recovery</b>    |           |            |         |            |         |          |               |     |           |
| Dibromofluoromethane         | NR        | NR         | 0       |            | NR      | NR       | -             | NR  |           |
| Toluene-d8                   | NR        | NR         | 0       |            | NR      | NR       | -             | NR  |           |
| 4-BFB                        | NR        | NR         | 0       |            | NR      | NR       | -             | NR  |           |



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1409369

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQuIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**  
 Jeremy Smith  
 AEI Consultants  
 2500 Camino Diablo, Ste.#200  
 Walnut Creek, CA 94597  
 (510) 420-3355    FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com  
 cc/3rd Party:  
 PO:  
 ProjectNo: #261829; Foothill Square

**Bill to:**  
 Sara Guerin  
 AEI Consultants  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597  
 AccountsPayable@AEIConsultants.co

**Requested TAT: 5 days**  
  
**Date Received: 09/12/2014**  
**Date Printed: 09/18/2014**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 1409369-001 | SSD-INF   | Air    | 9/12/2014 8:40  | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |
| 1409369-002 | SVE-INF   | Air    | 9/12/2014 8:50  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |           |    |              |   |  |   |  |    |  |
|----|-----------|----|--------------|---|--|---|--|----|--|
| 1  | 8010BMS_A | 2  | PREFD REPORT | 3 |  | 4 |  | 5  |  |
| 6  |           | 7  |              | 8 |  | 9 |  | 10 |  |
| 11 |           | 12 |              |   |  |   |  |    |  |

**Prepared by: Maria Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS  
**Project:** #261829; Foothill Square  
**Comments:**

**QC Level:** LEVEL 2  
**Client Contact:** Jeremy Smith  
**Contact's Email:** [jasmith@aeiconsultants.com](mailto:jasmith@aeiconsultants.com)

**Work Order:** 1409369  
**Date Received:** 9/12/2014

WaterTrax     WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

| Lab ID       | Client ID | Matrix | Test Name                                                                                                                                            | Number of Containers | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT    | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1409369-001A | SSD-INF   | Air    | SW8260B (HVOCs List) <1,2-Dibromoethane (EDB), cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2-Dichloroethene, Trichloroethene, Vinyl Chloride> | 1                    | Tedlar                | <input type="checkbox"/> | 9/12/2014 8:40         | 5 days |                  | <input type="checkbox"/> |        |
| 1409369-002A | SVE-INF   | Air    | SW8260B (HVOCs List) <1,2-Dibromoethane (EDB), cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2-Dichloroethene, Trichloroethene, Vinyl Chloride> | 1                    | Tedlar                | <input type="checkbox"/> | 9/12/2014 8:50         | 5 days |                  | <input type="checkbox"/> |        |

**\* NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

**Bottle Legend:**

Tedlar = Tedlar Air Bag

1409369

**McCAMPBELL ANALYTICAL INC.**

1534 Willow Pass Road  
Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

**CHAIN OF CUSTODY RECORD**

**TURN AROUND TIME**

RUSH 24 HR 48 HR 72 HR 5 DAY

EDF Required?  Yes  No

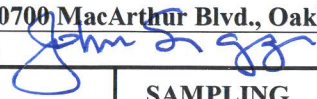
Report To: **Jeremy Smith** Bill To: **same** P.O. # \_\_\_\_\_

Company: **AEI Consultants**  
**2500 Camino Diablo**  
**Walnut Creek, CA 94597** E-Mail: **jasmith@aeiconsultants.com**

Tele: **(925) 746-6000** Fax: **(925) 746-6099**

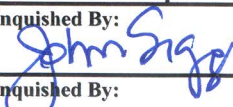

Project #: **261829** Project Name: **Foothill Square**

Project Location: **10700 MacArthur Blvd., Oakland, California**

Sampler Signature: 

**Analysis Request** **Other** **Comments**

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       | BTEX / MTBE 8021B | TPH Multi-Range (8015) w/ silica Gel Cleanup | TPHg Using EPA Method 8015 | TPHg / TPHd 8015 with Silica Gel | TPH as Hydraulic Oil w/ Silica Gel Cleanup 8015 | Benzene, Ethylbenzene, Naphthalene ( 8260) | Nitrate/Nitrite | EPA 608 / 8080 PCB's ONLY | HVOCs 8260, PCE, TCE, cis/trans, 1,2 DCE, VC | SVOCs (with PAHs) 8270 | PAH's / PNA's by EPA 625 / 8270 / 8310 | CAM-17 Metals by 6010 | CAM -17 Metals by E200.8 (Dissolved). | OC Pesticides EPA Method 8081 | OC Acidic Herbicides EPA Method 8151 | HOLD |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|-------------------|----------------------------------------------|----------------------------|----------------------------------|-------------------------------------------------|--------------------------------------------|-----------------|---------------------------|----------------------------------------------|------------------------|----------------------------------------|-----------------------|---------------------------------------|-------------------------------|--------------------------------------|------|--|--|--|--|--|--|--|--|--|--|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |                   |                                              |                            |                                  |                                                 |                                            |                 |                           |                                              |                        |                                        |                       |                                       |                               |                                      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| SSD-INF                         |          | 9-12-14  | 0840 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |                   |                                              |                            |                                  |                                                 |                                            |                 |                           |                                              |                        |                                        |                       |                                       |                               |                                      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| SVE-INF                         |          | 9-12-14  | 0850 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |                   |                                              |                            |                                  |                                                 |                                            |                 |                           |                                              |                        |                                        |                       |                                       |                               |                                      |      |  |  |  |  |  |  |  |  |  |  |  |  |

Relinquished By:  Date: **9-12-14** Time: **1018** Received By: 

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_

ICE/t° \_\_\_\_\_ PRESERVATION            VOAS            O&G            METALS            OTHER           

GOOD CONDITION \_\_\_\_\_ APPROPRIATE \_\_\_\_\_

HEAD SPACE ABSENT \_\_\_\_\_ CONTAINERS \_\_\_\_\_

DECHLORINATED IN LAB \_\_\_\_\_ PERSERVED IN LAB \_\_\_\_\_





### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **9/12/2014 12:09:24 PM**  
 Project Name: **#261829; Foothill Square** LogIn Reviewed by: **Maria Venegas**  
 WorkOrder No: **1409369** Matrix: Air Carrier: Client Drop-In

**Chain of Custody (COC) Information**

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
 Container/Temp Blank temperature Cooler Temp: NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 pH acceptable upon receipt (Metal: pH<2; 522: pH<4)? Yes  No  NA   
 Samples Received on Ice? Yes  No   
 Total Chlorine tested and acceptable upon receipt for EPA 522? Yes  No  NA

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1410487

**Report Created for:** AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597

**Project Contact:** Jeremy Smith  
**Project P.O.:** #69011  
**Project Name:** #261829; Foothill Square

**Project Received:** 10/14/2014

Analytical Report reviewed & approved for release on 10/20/2014 by:

Question about  
your data?

[Click here to email  
McC Campbell](#)

Angela Rydelius,  
Laboratory Manager

***The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.***





## Glossary of Terms & Qualifier Definitions

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**WorkOrder:** 1410487

### Glossary Abbreviation

|              |                                                                                                                                                                                                     |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 95% Interval | 95% Confident Interval                                                                                                                                                                              |
| DF           | Dilution Factor                                                                                                                                                                                     |
| DUP          | Duplicate                                                                                                                                                                                           |
| EDL          | Estimated Detection Limit                                                                                                                                                                           |
| ITEF         | International Toxicity Equivalence Factor                                                                                                                                                           |
| LCS          | Laboratory Control Sample                                                                                                                                                                           |
| MB           | Method Blank                                                                                                                                                                                        |
| MB % Rec     | % Recovery of Surrogate in Method Blank, if applicable                                                                                                                                              |
| MDL          | Method Detection Limit                                                                                                                                                                              |
| ML           | Minimum Level of Quantitation                                                                                                                                                                       |
| MS           | Matrix Spike                                                                                                                                                                                        |
| MSD          | Matrix Spike Duplicate                                                                                                                                                                              |
| ND           | Not detected at or above the indicated MDL or RL                                                                                                                                                    |
| NR           | Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content. |
| PF           | Prep Factor                                                                                                                                                                                         |
| RD           | Relative Difference                                                                                                                                                                                 |
| RL           | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)                                                                                                            |
| RPD          | Relative Percent Deviation                                                                                                                                                                          |
| RRT          | Relative Retention Time                                                                                                                                                                             |
| SPK Val      | Spike Value                                                                                                                                                                                         |
| SPKRef Val   | Spike Reference Value                                                                                                                                                                               |
| TEQ          | Toxicity Equivalence                                                                                                                                                                                |

### Analytical Qualifiers

H samples were analyzed out of holding time



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 10/14/14 12:06  
**Date Prepared:** 10/14/14-10/15/14

**WorkOrder:** 1410487  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD-INF   | 1410487-001A | Gas            | 10/14/2014 10:15 | GC16       | 96511    |

| Analytes                 | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | ND      | H          | 0.25   | 1  | 10/14/2014 17:55 |
| trans-1,2-Dichloroethene | ND      | H          | 0.25   | 1  | 10/14/2014 17:55 |
| Tetrachloroethene        | 5.4     | H          | 0.25   | 1  | 10/14/2014 17:55 |
| Trichloroethene          | 0.51    | H          | 0.25   | 1  | 10/14/2014 17:55 |
| Vinyl Chloride           | ND      | H          | 0.25   | 1  | 10/14/2014 17:55 |
| Surrogates               | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 113     | H          | 70-130 |    | 10/14/2014 17:55 |
| Toluene-d8               | 87      | H          | 70-130 |    | 10/14/2014 17:55 |

Analyst(s): KBO

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-INF   | 1410487-002A | Gas            | 10/14/2014 10:30 | GC16       | 96511    |

| Analytes                 | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | 21      | H          | 2.5    | 10 | 10/15/2014 15:32 |
| trans-1,2-Dichloroethene | 3.3     | H          | 2.5    | 10 | 10/15/2014 15:32 |
| Tetrachloroethene        | 91      | H          | 2.5    | 10 | 10/15/2014 15:32 |
| Trichloroethene          | 20      | H          | 2.5    | 10 | 10/15/2014 15:32 |
| Vinyl Chloride           | ND      | H          | 2.5    | 10 | 10/15/2014 15:32 |
| Surrogates               | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 116     | H          | 70-130 |    | 10/15/2014 15:32 |
| Toluene-d8               | 87      | H          | 70-130 |    | 10/15/2014 15:32 |

Analyst(s): KF



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 10/14/14 12:06  
**Date Prepared:** 10/14/14-10/15/14

**WorkOrder:** 1410487  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD-INF   | 1410487-001A | Gas            | 10/14/2014 10:15 | GC16       | 96511    |

| Analytes                 | Result      | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|-------------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | ND          | H          | 250    | 1  | 10/14/2014 17:55 |
| trans-1,2-Dichloroethene | ND          | H          | 250    | 1  | 10/14/2014 17:55 |
| Tetrachloroethene        | <b>5400</b> | H          | 250    | 1  | 10/14/2014 17:55 |
| Trichloroethene          | <b>510</b>  | H          | 250    | 1  | 10/14/2014 17:55 |
| Vinyl Chloride           | ND          | H          | 250    | 1  | 10/14/2014 17:55 |
| Surrogates               | REC (%)     | Qualifiers | Limits |    | Date Analyzed    |
| Dibromofluoromethane     | 113         | H          | 70-130 |    | 10/14/2014 17:55 |
| Toluene-d8               | 87          | H          | 70-130 |    | 10/14/2014 17:55 |

Analyst(s): KBO

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-INF   | 1410487-002A | Gas            | 10/14/2014 10:30 | GC16       | 96511    |

| Analytes                 | Result        | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | <b>21,000</b> | H          | 2500   | 10 | 10/15/2014 15:32 |
| trans-1,2-Dichloroethene | <b>3300</b>   | H          | 2500   | 10 | 10/15/2014 15:32 |
| Tetrachloroethene        | <b>91,000</b> | H          | 2500   | 10 | 10/15/2014 15:32 |
| Trichloroethene          | <b>20,000</b> | H          | 2500   | 10 | 10/15/2014 15:32 |
| Vinyl Chloride           | ND            | H          | 2500   | 10 | 10/15/2014 15:32 |
| Surrogates               | REC (%)       | Qualifiers | Limits |    | Date Analyzed    |
| Dibromofluoromethane     | 116           | H          | 70-130 |    | 10/15/2014 15:32 |
| Toluene-d8               | 87            | H          | 70-130 |    | 10/15/2014 15:32 |

Analyst(s): KF



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 10/14/14  
**Date Analyzed:** 10/14/14  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1410487  
**BatchID:** 96511  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-96511  
 1410470-001EMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 9.73       | 0.50 | 10      | -          | 97       | 50-153     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 10.3       | 0.50 | 10      | -          | 103      | 68-119     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 9.58       | 0.50 | 10      | -          | 96       | 63-117     |
| 1,1-Dichloroethene            | ND        | 9.83       | 0.50 | 10      | -          | 98       | 78-110     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 10/14/14  
**Date Analyzed:** 10/14/14  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1410487  
**BatchID:** 96511  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-96511  
 1410470-001EMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 9.56       | 0.50 | 10      | -          | 96       | 81-112     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |

### Surrogate Recovery

|                      |      |      |  |     |     |     |        |
|----------------------|------|------|--|-----|-----|-----|--------|
| Dibromofluoromethane | 28.8 | 28.3 |  | 25  | 115 | 113 | 76-125 |
| Toluene-d8           | 21.5 | 21.4 |  | 25  | 86  | 86  | 71-125 |
| 4-BFB                | 2.31 | 2.38 |  | 2.5 | 93  | 95  | 74-104 |

(Cont.)



## Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 10/14/14  
**Date Analyzed:** 10/14/14  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1410487  
**BatchID:** 96511  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-96511  
 1410470-001EMS/MSD

### QC Summary Report for SW8260B

| Analyte                      | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD   | RPD Limit |
|------------------------------|-----------|------------|---------|------------|---------|----------|---------------|-------|-----------|
| Chlorobenzene                | 9.57      | 10.0       | 10      | ND         | 96      | 100      | 70-130        | 4.48  | 20        |
| 1,2-Dibromoethane (EDB)      | 10.8      | 11.2       | 10      | ND         | 108     | 112      | 70-130        | 3.28  | 20        |
| 1,2-Dichloroethane (1,2-DCA) | 9.90      | 10.4       | 10      | ND         | 99      | 104      | 70-130        | 4.57  | 20        |
| 1,1-Dichloroethene           | 9.56      | 9.97       | 10      | ND         | 96      | 100      | 70-130        | 4.22  | 20        |
| Trichloroethene              | 9.34      | 9.77       | 10      | ND         | 93      | 98       | 70-130        | 4.49  | 20        |
| <b>Surrogate Recovery</b>    |           |            |         |            |         |          |               |       |           |
| Dibromofluoromethane         | 28.2      | 28.1       | 25      |            | 113     | 112      | 76-134        | 0.490 | 20        |
| Toluene-d8                   | 21.5      | 21.6       | 25      |            | 86      | 86       | 77-101        | 0     | 20        |
| 4-BFB                        | 2.32      | 2.28       | 2.5     |            | 93      | 91       | 76-97         | 1.50  | 20        |



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1410487

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQuIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**  
 Jeremy Smith  
 AEI Consultants  
 2500 Camino Diablo, Ste.#200  
 Walnut Creek, CA 94597  
 (925) 283-6000    FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com  
 cc/3rd Party:  
 PO: #69011  
 ProjectNo: #261829; Foothill Square

**Bill to:**  
 Sara Guerin  
 AEI Consultants  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597  
 AccountsPayable@AEIConsultants.co

**Requested TAT: 5 days**  
  
**Date Received: 10/14/2014**  
**Date Printed: 10/20/2014**

| Lab ID      | Client ID | Matrix | Collection Date  | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|------------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                  |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 1410487-001 | SSD-INF   | Gas    | 10/14/2014 10:15 | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |
| 1410487-002 | SVE-INF   | Gas    | 10/14/2014 10:30 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |           |    |              |   |  |   |  |    |  |
|----|-----------|----|--------------|---|--|---|--|----|--|
| 1  | 8010BMS_A | 2  | PREFD REPORT | 3 |  | 4 |  | 5  |  |
| 6  |           | 7  |              | 8 |  | 9 |  | 10 |  |
| 11 |           | 12 |              |   |  |   |  |    |  |

The following SamplIDs: 001A, 002A contain testgroup.

**Prepared by: Maria Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS  
**Project:** #261829; Foothill Square  
**Comments:**

**QC Level:** LEVEL 2  
**Client Contact:** Jeremy Smith  
**Contact's Email:** jasmith@aeiconsultants.com

**Work Order:** 1410487  
**Date Received:** 10/14/2014

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  Fax   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

| Lab ID       | Client ID | Matrix | Test Name     | Number of Containers | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT    | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|---------------|----------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1410487-001A | SSD-INF   | Gas    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 10/14/2014 10:15       | 5 days |                  | <input type="checkbox"/> |        |
| 1410487-002A | SVE-INF   | Gas    | HVOCs by GCMS | 1                    | Tedlar                | <input type="checkbox"/> | 10/14/2014 10:30       | 5 days |                  | <input type="checkbox"/> |        |

**\* NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

**Bottle Legend:**

Tedlar = Tedlar Air Bag

1410487

**McCAMPBELL ANALYTICAL INC.**

1534 Willow Pass Road  
Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

**CHAIN OF CUSTODY RECORD**

**TURN AROUND TIME**

RUSH  
 24 HR  
 48 HR  
 72 HR  
 5 DAY

EDF Required?  Yes  No

**Report To:** Jeremy Smith      **Bill To:** same      **P.O. #** 69011  
**Company:** AEI Consultants  
 2500 Camino Diablo  
 Walnut Creek, CA 94597      **E-Mail:** jsmith@aeiconsultants.com  
**Tele:** (925) 746-6000      **Fax:** (925) 746-6099  
**Project #:** 261829      **Project Name:** Foothill Square  
**Project Location:** 10700 MacArthur Blvd., Oakland, California  
**Sampler Signature:** *[Signature]*

**Analysis Request**

**Other**

**Comments**

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |  |  |  |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|--|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |  |  |  |
| SSD-INF                         |          | 10-14-14 | 1015 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| SVE-INF                         |          | 10-14-14 | 1030 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |

|                                                 |   |
|-------------------------------------------------|---|
| BTEX / MTBE 8021B                               |   |
| TPH Multi-Range (8015) w/silica Gel Cleanup     |   |
| TPHg Using EPA Method 8015                      |   |
| TPHg / TPHd 8015 with Silica Gel                |   |
| TPH as Hydraulic Oil w/ Silica Gel Cleanup 8015 |   |
| Benzene, Ethylbenzene, Naphthalene ( 8260)      |   |
| Nitrate/Nitrite                                 |   |
| EPA 608 / 8080 PCB's ONLY                       |   |
| HVOCs 8260, PCE, TCE, cis/trans, 1,2 DCE, VC    | X |
| <del>SVOCs (with PAHs) 8270</del>               | X |
| PAH's / PNA's by EPA 625 / 8270 / 8310          |   |
| CAM-17 Metals by 6010                           |   |
| CAM -17 Metals by E200.8 (Dissoived).           |   |
| OC Pesticides EPA Method 8081                   |   |
| OC Acidic Herbicides EPA Method 8151            |   |
| HOLD                                            |   |

**Relinquished By:** *[Signature]*      **Date:** 10-14-14      **Time:** 11:40      **Received By:** *[Signature]*  
**Relinquished By:**      **Date:**      **Time:**      **Received By:**  
**Relinquished By:**      **Date:**      **Time:**      **Received By:**

**ICE/t°** \_\_\_\_\_  
**GOOD CONDITION** \_\_\_\_\_  
**HEAD SPACE ABSENT** \_\_\_\_\_  
**DECHLORINATED IN LAB** \_\_\_\_\_

**PRESERVATION** \_\_\_\_\_  
**APPROPRIATE** \_\_\_\_\_  
**CONTAINERS** \_\_\_\_\_  
**PERSERVED IN LAB** \_\_\_\_\_

VOAS    O&G    METALS    OTHER



### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **10/14/2014 12:06:15 PM**  
 Project Name: **#261829; Foothill Square** Login Reviewed by: **Maria Venegas**  
 WorkOrder No: **1410487** Matrix: Gas Carrier: Client Drop-In

**Chain of Custody (COC) Information**

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
 Container/Temp Blank temperature Cooler Temp: NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 pH acceptable upon receipt (Metal: pH<2; 522: pH<4)? Yes  No  NA   
 Samples Received on Ice? Yes  No   
 Total Chlorine tested and acceptable upon receipt for EPA 522? Yes  No  NA

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1411821

**Report Created for:** AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597

**Project Contact:** Jeremy Smith  
**Project P.O.:** #71815  
**Project Name:** #261829; Foothill Square

**Project Received:** 11/20/2014

Analytical Report reviewed & approved for release on 11/26/2014 by:

Question about  
your data?

[Click here to email  
McC Campbell](#)

Angela Rydelius,  
Laboratory Manager

***The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.***





## Glossary of Terms & Qualifier Definitions

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**WorkOrder:** 1411821

### Glossary Abbreviation

|              |                                                                                          |
|--------------|------------------------------------------------------------------------------------------|
| 95% Interval | 95% Confident Interval                                                                   |
| DF           | Dilution Factor                                                                          |
| DUP          | Duplicate                                                                                |
| EDL          | Estimated Detection Limit                                                                |
| ITEF         | International Toxicity Equivalence Factor                                                |
| LCS          | Laboratory Control Sample                                                                |
| MB           | Method Blank                                                                             |
| MB % Rec     | % Recovery of Surrogate in Method Blank, if applicable                                   |
| MDL          | Method Detection Limit                                                                   |
| ML           | Minimum Level of Quantitation                                                            |
| MS           | Matrix Spike                                                                             |
| MSD          | Matrix Spike Duplicate                                                                   |
| ND           | Not detected at or above the indicated MDL or RL                                         |
| NR           | Data Not Reported due to matrix interference or insufficient sample amount.              |
| PF           | Prep Factor                                                                              |
| RD           | Relative Difference                                                                      |
| RL           | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD          | Relative Percent Deviation                                                               |
| RRT          | Relative Retention Time                                                                  |
| SPK Val      | Spike Value                                                                              |
| SPKRef Val   | Spike Reference Value                                                                    |
| TEQ          | Toxicity Equivalence                                                                     |

### Analytical Qualifiers

H samples were analyzed out of holding time



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 11/20/14 11:00  
**Date Prepared:** 11/21/14

**WorkOrder:** 1411821  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD-INF   | 1411821-001A | Air            | 11/20/2014 05:15 | GC28       | 98101    |

| Analytes                 | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | 0.71    | H          | 0.50   | 2  | 11/21/2014 13:05 |
| trans-1,2-Dichloroethene | ND      | H          | 0.50   | 2  | 11/21/2014 13:05 |
| Tetrachloroethene        | 22      | H          | 0.50   | 2  | 11/21/2014 13:05 |
| Trichloroethene          | 1.6     | H          | 0.50   | 2  | 11/21/2014 13:05 |
| Vinyl Chloride           | ND      | H          | 0.50   | 2  | 11/21/2014 13:05 |
| Surrogates               | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 101     | H          | 70-130 |    | 11/21/2014 13:05 |
| Toluene-d8               | 97      | H          | 70-130 |    | 11/21/2014 13:05 |
| 4-BFB                    | 100     | H          | 70-130 |    | 11/21/2014 13:05 |

Analyst(s): KF

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-INF   | 1411821-002A | Air            | 11/20/2014 05:30 | GC28       | 98101    |

| Analytes                 | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | 18      | H          | 1.7    | 7  | 11/21/2014 13:43 |
| trans-1,2-Dichloroethene | 2.5     | H          | 1.7    | 7  | 11/21/2014 13:43 |
| Tetrachloroethene        | 81      | H          | 1.7    | 7  | 11/21/2014 13:43 |
| Trichloroethene          | 18      | H          | 1.7    | 7  | 11/21/2014 13:43 |
| Vinyl Chloride           | ND      | H          | 1.7    | 7  | 11/21/2014 13:43 |
| Surrogates               | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 101     | H          | 70-130 |    | 11/21/2014 13:43 |
| Toluene-d8               | 97      | H          | 70-130 |    | 11/21/2014 13:43 |
| 4-BFB                    | 97      | H          | 70-130 |    | 11/21/2014 13:43 |

Analyst(s): KF



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 11/20/14 11:00  
**Date Prepared:** 11/21/14

**WorkOrder:** 1411821  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD-INF   | 1411821-001A | Air            | 11/20/2014 05:15 | GC28       | 98101    |

| Analytes                 | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | 710     | H          | 500    | 2  | 11/21/2014 13:05 |
| trans-1,2-Dichloroethene | ND      | H          | 500    | 2  | 11/21/2014 13:05 |
| Tetrachloroethene        | 22,000  | H          | 500    | 2  | 11/21/2014 13:05 |
| Trichloroethene          | 1600    | H          | 500    | 2  | 11/21/2014 13:05 |
| Vinyl Chloride           | ND      | H          | 500    | 2  | 11/21/2014 13:05 |
| Surrogates               | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 101     | H          | 70-130 |    | 11/21/2014 13:05 |
| Toluene-d8               | 97      | H          | 70-130 |    | 11/21/2014 13:05 |
| 4-BFB                    | 100     | H          | 70-130 |    | 11/21/2014 13:05 |

Analyst(s): KF

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-INF   | 1411821-002A | Air            | 11/20/2014 05:30 | GC28       | 98101    |

| Analytes                 | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|--------------------------|---------|------------|--------|----|------------------|
| cis-1,2-Dichloroethene   | 18,000  | H          | 1700   | 7  | 11/21/2014 13:43 |
| trans-1,2-Dichloroethene | 2500    | H          | 1700   | 7  | 11/21/2014 13:43 |
| Tetrachloroethene        | 81,000  | H          | 1700   | 7  | 11/21/2014 13:43 |
| Trichloroethene          | 18,000  | H          | 1700   | 7  | 11/21/2014 13:43 |
| Vinyl Chloride           | ND      | H          | 1700   | 7  | 11/21/2014 13:43 |
| Surrogates               | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane     | 101     | H          | 70-130 |    | 11/21/2014 13:43 |
| Toluene-d8               | 97      | H          | 70-130 |    | 11/21/2014 13:43 |
| 4-BFB                    | 97      | H          | 70-130 |    | 11/21/2014 13:43 |

Analyst(s): KF





# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 11/21/14  
**Date Analyzed:** 11/20/14  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1411821  
**BatchID:** 98101  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-98101  
 1411737-001AMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 9.62       | 0.50 | 10      | -          | 96       | 43-157     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 9.56       | 0.50 | 10      | -          | 96       | 44-155     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 10.3       | 0.50 | 10      | -          | 103      | 66-125     |
| 1,1-Dichloroethene            | ND        | 9.89       | 0.50 | 10      | -          | 99       | 47-149     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 11/21/14  
**Date Analyzed:** 11/20/14  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1411821  
**BatchID:** 98101  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-98101  
 1411737-001AMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 9.68       | 0.50 | 10      | -          | 97       | 43-157     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |

### Surrogate Recovery

|                      |      |      |  |     |     |     |        |
|----------------------|------|------|--|-----|-----|-----|--------|
| Dibromofluoromethane | 27.6 | 27.4 |  | 25  | 110 | 109 | 65-135 |
| Toluene-d8           | 22.6 | 23.6 |  | 25  | 90  | 95  | 64-127 |
| 4-BFB                | 2.53 | 2.61 |  | 2.5 | 101 | 104 | 59-139 |

(Cont.)



## Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 11/21/14  
**Date Analyzed:** 11/20/14  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1411821  
**BatchID:** 98101  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-98101  
 1411737-001AMS/MSD

### QC Summary Report for SW8260B

| Analyte                      | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD   | RPD Limit |
|------------------------------|-----------|------------|---------|------------|---------|----------|---------------|-------|-----------|
| Chlorobenzene                | 9.30      | 9.37       | 10      | ND         | 93      | 94       | 70-130        | 0.761 | 20        |
| 1,2-Dibromoethane (EDB)      | 9.28      | 9.57       | 10      | ND         | 93      | 96       | 70-130        | 3.06  | 20        |
| 1,2-Dichloroethane (1,2-DCA) | 10.5      | 10.7       | 10      | ND         | 105     | 107      | 70-130        | 1.61  | 20        |
| 1,1-Dichloroethene           | 9.52      | 9.64       | 10      | ND         | 95      | 96       | 70-130        | 1.29  | 20        |
| Trichloroethene              | 9.28      | 9.40       | 10      | ND         | 93      | 94       | 70-130        | 1.26  | 20        |
| <b>Surrogate Recovery</b>    |           |            |         |            |         |          |               |       |           |
| Dibromofluoromethane         | 27.2      | 27.4       | 25      |            | 109     | 110      | 73-131        | 0.692 | 20        |
| Toluene-d8                   | 23.2      | 23.3       | 25      |            | 93      | 93       | 72-117        | 0     | 20        |
| 4-BFB                        | 2.65      | 2.58       | 2.5     |            | 106     | 103      | 74-116        | 2.70  | 20        |



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1411821

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQUIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**

Jeremy Smith  
AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597  
(925) 283-6000    FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com  
cc/3rd Party:  
PO: #71815  
ProjectNo: #261829; Foothill Square

**Bill to:**

Sara Guerin  
AEI Consultants  
2500 Camino Diablo, Ste. #200  
Walnut Creek, CA 94597  
AccountsPayable@AEIConsultants.co

**Requested TAT: 5 days**

**Date Received: 11/20/2014**

**Date Printed: 11/21/2014**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 1411821-001 | SSD-INF   | Air    | 11/20/2014 5:15 | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |
| 1411821-002 | SVE-INF   | Air    | 11/20/2014 5:30 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |           |    |              |   |  |   |  |    |  |
|----|-----------|----|--------------|---|--|---|--|----|--|
| 1  | 8010BMS_A | 2  | PREDF REPORT | 3 |  | 4 |  | 5  |  |
| 6  |           | 7  |              | 8 |  | 9 |  | 10 |  |
| 11 |           | 12 |              |   |  |   |  |    |  |

The following SamplIDs: 001A, 002A contain testgroup.

**Prepared by: Maria Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS  
**Project:** #261829; Foothill Square  
**Comments:**

**QC Level:** LEVEL 2  
**Client Contact:** Jeremy Smith  
**Contact's Email:** jasmith@aeiconsultants.com

**Work Order:** 1411821  
**Date Received:** 11/20/2014

WaterTrax     WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

| Lab ID       | Client ID | Matrix | Test Name     | Containers /Composites | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT    | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|---------------|------------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1411821-001A | SSD-INF   | Air    | HVOCs by GCMS | 1                      | Tedlar                | <input type="checkbox"/> | 11/20/2014 5:15        | 5 days |                  | <input type="checkbox"/> |        |
| 1411821-002A | SVE-INF   | Air    | HVOCs by GCMS | 1                      | Tedlar                | <input type="checkbox"/> | 11/20/2014 5:30        | 5 days |                  | <input type="checkbox"/> |        |

**\* NOTE: STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**

141821

McCAMPBELL ANALYTICAL INC.

1534 Willow Pass Road  
Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR  48 HR  72 HR  5 DAY

EDF Required?  Yes  No

Report To: Jeremy Smith Bill To: same P.O. # 71815  
Company: AEI Consultants  
2500 Camino Diablo  
Walnut Creek, CA 94597 E-Mail: jasmith@aeiconsultants.com  
Tele: (925) 746-6000 Fax: (925) 746-6099  
Project #: 261829 Project Name: Foothill Square  
Project Location: 10700 MacArthur Blvd., Oakland, California  
Sampler Signature: *[Signature]*

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |  |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |  |
| SSD-INF                         |          | 11-20-14 | 0515 | 1            | TB              |        | X    |     |        |       |                  |     |                  |       |  |  |  |
| SVE-INF                         |          | 11-20-14 | 0530 | 1            | TB              |        | X    |     |        |       |                  |     |                  |       |  |  |  |

| Analysis Request  |                                              |                            |                                  |                                                 |                                            |                 |                           |                                              |                        |                                        |                       |                                      | Other                         |                                      | Comments |  |  |
|-------------------|----------------------------------------------|----------------------------|----------------------------------|-------------------------------------------------|--------------------------------------------|-----------------|---------------------------|----------------------------------------------|------------------------|----------------------------------------|-----------------------|--------------------------------------|-------------------------------|--------------------------------------|----------|--|--|
| BTEX / MTBE 8021B | TPH Multi-Range (8015) w/ silica Gel Cleanup | TPHg Using EPA Method 8015 | TPHg / TPHd 8015 with Silica Gel | TPH as Hydraulic Oil w/ Silica Gel Cleanup 8015 | Benzene, Ethylbenzene, Naphthalene ( 8260) | Nitrate/Nitrite | EPA 608 / 8080 PCB's ONLY | HVOCs 8260, PCE, TCE, cis/trans, 1,2 DCE, VC | SVOCs (with PAHs) 8270 | PAH's / PNA's by EPA 625 / 8270 / 8310 | CAM-17 Metals by 6010 | CAM -17 Metals by E200.8 (Dissolved) | OC Pesticides EPA Method 8081 | OC Acidic Herbicides EPA Method 8151 | HOLD     |  |  |

|                                     |                |            |                                 |
|-------------------------------------|----------------|------------|---------------------------------|
| Relinquished By: <i>[Signature]</i> | Date: 11-20-14 | Time: 0946 | Received By: <i>[Signature]</i> |
| Relinquished By:                    | Date:          | Time:      | Received By:                    |
| Relinquished By:                    | Date:          | Time:      | Received By:                    |

|                      |                          |     |        |       |
|----------------------|--------------------------|-----|--------|-------|
| ICE/° <u>NA</u>      | VOAS                     | O&G | METALS | OTHER |
| GOOD CONDITION       | PRESERVATION APPROPRIATE |     |        |       |
| HEAD SPACE ABSENT    | CONTAINERS               |     |        |       |
| DECHLORINATED IN LAB | PERSERVED IN LAB         |     |        |       |



### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **11/20/2014 11:00:15 AM**  
 Project Name: **#261829; Foothill Square** LogIn Reviewed by: **Maria Venegas**  
 WorkOrder No: **1411821** Matrix: Air Carrier: Client Drop-In

**Chain of Custody (COC) Information**

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
 Sample/Temp Blank temperature Temp: NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes  No  NA   
 Samples Received on Ice? Yes  No

**UCMR3 Samples:**

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes  No  NA   
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes  No  NA

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1412C41

**Report Created for:** AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597

**Project Contact:** Jeremy Smith  
**Project P.O.:** 74198  
**Project Name:** #261829; Foothill Square

**Project Received:** 12/31/2014

Analytical Report reviewed & approved for release on 01/07/2015 by:

Question about  
your data?

[Click here to email  
McC Campbell](#)

Angela Rydelius,  
Laboratory Manager

***The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.***







## Glossary of Terms & Qualifier Definitions

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**WorkOrder:** 1412C41

### Glossary Abbreviation

|              |                                                                                          |
|--------------|------------------------------------------------------------------------------------------|
| 95% Interval | 95% Confident Interval                                                                   |
| DF           | Dilution Factor                                                                          |
| DUP          | Duplicate                                                                                |
| EDL          | Estimated Detection Limit                                                                |
| ITEF         | International Toxicity Equivalence Factor                                                |
| LCS          | Laboratory Control Sample                                                                |
| MB           | Method Blank                                                                             |
| MB % Rec     | % Recovery of Surrogate in Method Blank, if applicable                                   |
| MDL          | Method Detection Limit                                                                   |
| ML           | Minimum Level of Quantitation                                                            |
| MS           | Matrix Spike                                                                             |
| MSD          | Matrix Spike Duplicate                                                                   |
| ND           | Not detected at or above the indicated MDL or RL                                         |
| NR           | Data Not Reported due to matrix interference or insufficient sample amount.              |
| PF           | Prep Factor                                                                              |
| RD           | Relative Difference                                                                      |
| RL           | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD          | Relative Percent Deviation                                                               |
| RRT          | Relative Retention Time                                                                  |
| SPK Val      | Spike Value                                                                              |
| SPKRef Val   | Spike Reference Value                                                                    |
| TEQ          | Toxicity Equivalence                                                                     |

### Analytical Qualifiers

H samples were analyzed out of holding time

### Quality Control Qualifiers

F1 MS/MSD recovery and/or RPD was out of acceptance criteria; LCS validated the prep batch.



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 12/31/14 10:45  
**Date Prepared:** 12/31/14

**WorkOrder:** 1412C41  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD INF   | 1412C41-001A | Air            | 12/31/2014 05:45 | GC28       | 99588    |

| Analytes                     | Result | Qualifiers | RL   | DF | Date Analyzed    |
|------------------------------|--------|------------|------|----|------------------|
| Bromodichloromethane         | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| Bromoform                    | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| Bromomethane                 | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| Carbon Tetrachloride         | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| Chlorobenzene                | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| Chloroethane                 | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| Chloroform                   | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| Chloromethane                | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| Dibromochloromethane         | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| 1,2-Dibromoethane (EDB)      | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| 1,2-Dichlorobenzene          | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| 1,3-Dichlorobenzene          | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| 1,4-Dichlorobenzene          | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| Dichlorodifluoromethane      | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| 1,1-Dichloroethane           | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| 1,2-Dichloroethane (1,2-DCA) | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| 1,1-Dichloroethene           | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| cis-1,2-Dichloroethene       | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| trans-1,2-Dichloroethene     | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| 1,2-Dichloropropane          | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| cis-1,3-Dichloropropene      | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| trans-1,3-Dichloropropene    | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| Freon 113                    | ND     | H          | 5.0  | 1  | 12/31/2014 16:56 |
| Methylene chloride           | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| 1,1,1,2-Tetrachloroethane    | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| 1,1,2,2-Tetrachloroethane    | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| Tetrachloroethene            | 1.0    | H          | 0.25 | 1  | 12/31/2014 16:56 |
| 1,1,1-Trichloroethane        | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| 1,1,2-Trichloroethane        | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| Trichloroethene              | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| Trichlorofluoromethane       | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |
| Vinyl Chloride               | ND     | H          | 0.25 | 1  | 12/31/2014 16:56 |

(Cont.)



## Analytical Report

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Client:</b> AEI Consultants           | <b>WorkOrder:</b> 1412C41         |
| <b>Project:</b> #261829; Foothill Square | <b>Extraction Method:</b> SW5030B |
| <b>Date Received:</b> 12/31/14 10:45     | <b>Analytical Method:</b> SW8260B |
| <b>Date Prepared:</b> 12/31/14           | <b>Unit:</b> µg/L                 |

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD INF   | 1412C41-001A | Air            | 12/31/2014 05:45 | GC28       | 99588    |

| Analytes             | Result         | Qualifiers        | RL            | DF | Date Analyzed    |
|----------------------|----------------|-------------------|---------------|----|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> |    |                  |
| Dibromofluoromethane | 101            | H                 | 70-130        |    | 12/31/2014 16:56 |
| Toluene-d8           | 109            | H                 | 70-130        |    | 12/31/2014 16:56 |
| 4-BFB                | 101            | H                 | 70-130        |    | 12/31/2014 16:56 |

Analyst(s): KF



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 12/31/14 10:45  
**Date Prepared:** 12/31/14

**WorkOrder:** 1412C41  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID         |
|------------------------------|--------------|----------------|------------------|------------|------------------|
| SVE-1 INF                    | 1412C41-002A | Air            | 12/31/2014 05:40 | GC28       | 99588            |
| Analytes                     | Result       | Qualifiers     | RL               | DF         | Date Analyzed    |
| Bromodichloromethane         | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| Bromoform                    | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| Bromomethane                 | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| Carbon Tetrachloride         | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| Chlorobenzene                | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| Chloroethane                 | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| Chloroform                   | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| Chloromethane                | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| Dibromochloromethane         | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| 1,2-Dibromoethane (EDB)      | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| 1,2-Dichlorobenzene          | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| 1,3-Dichlorobenzene          | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| 1,4-Dichlorobenzene          | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| Dichlorodifluoromethane      | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| 1,1-Dichloroethane           | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| 1,2-Dichloroethane (1,2-DCA) | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| 1,1-Dichloroethene           | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| cis-1,2-Dichloroethene       | 1.3          | H              | 0.25             | 1          | 12/31/2014 17:34 |
| trans-1,2-Dichloroethene     | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| 1,2-Dichloropropane          | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| cis-1,3-Dichloropropene      | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| trans-1,3-Dichloropropene    | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| Freon 113                    | ND           | H              | 5.0              | 1          | 12/31/2014 17:34 |
| Methylene chloride           | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| 1,1,1,2-Tetrachloroethane    | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| 1,1,1,2,2-Tetrachloroethane  | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| Tetrachloroethene            | 3.1          | H              | 0.25             | 1          | 12/31/2014 17:34 |
| 1,1,1-Trichloroethane        | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| 1,1,2-Trichloroethane        | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| Trichloroethene              | 1.2          | H              | 0.25             | 1          | 12/31/2014 17:34 |
| Trichlorofluoromethane       | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |
| Vinyl Chloride               | ND           | H              | 0.25             | 1          | 12/31/2014 17:34 |

(Cont.)



## Analytical Report

**Client:** AEI Consultants **WorkOrder:** 1412C41  
**Project:** #261829; Foothill Square **Extraction Method:** SW5030B  
**Date Received:** 12/31/14 10:45 **Analytical Method:** SW8260B  
**Date Prepared:** 12/31/14 **Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-1 INF | 1412C41-002A | Air            | 12/31/2014 05:40 | GC28       | 99588    |

| Analytes             | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|----------------------|---------|------------|--------|----|------------------|
| Surrogates           | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane | 103     | H          | 70-130 |    | 12/31/2014 17:34 |
| Toluene-d8           | 108     | H          | 70-130 |    | 12/31/2014 17:34 |
| 4-BFB                | 97      | H          | 70-130 |    | 12/31/2014 17:34 |

Analyst(s): KF



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 12/31/14 10:45  
**Date Prepared:** 12/31/14

**WorkOrder:** 1412C41  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID         |
|------------------------------|--------------|----------------|------------------|------------|------------------|
| SSD INF                      | 1412C41-001A | Air            | 12/31/2014 05:45 | GC28       | 99588            |
| Analytes                     | Result       | Qualifiers     | RL               | DF         | Date Analyzed    |
| Bromodichloromethane         | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| Bromoform                    | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| Bromomethane                 | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| Carbon Tetrachloride         | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| Chlorobenzene                | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| Chloroethane                 | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| Chloroform                   | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| Chloromethane                | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| Dibromochloromethane         | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| 1,2-Dibromoethane (EDB)      | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| 1,2-Dichlorobenzene          | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| 1,3-Dichlorobenzene          | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| 1,4-Dichlorobenzene          | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| Dichlorodifluoromethane      | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| 1,1-Dichloroethane           | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| 1,2-Dichloroethane (1,2-DCA) | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| 1,1-Dichloroethene           | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| cis-1,2-Dichloroethene       | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| trans-1,2-Dichloroethene     | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| 1,2-Dichloropropane          | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| cis-1,3-Dichloropropene      | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| trans-1,3-Dichloropropene    | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| Freon 113                    | ND           | H              | 5000             | 1          | 12/31/2014 16:56 |
| Methylene chloride           | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| 1,1,1,2-Tetrachloroethane    | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| 1,1,2,2-Tetrachloroethane    | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| Tetrachloroethene            | <b>1000</b>  | H              | 250              | 1          | 12/31/2014 16:56 |
| 1,1,1-Trichloroethane        | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| 1,1,2-Trichloroethane        | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| Trichloroethene              | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| Trichlorofluoromethane       | ND           | H              | 250              | 1          | 12/31/2014 16:56 |
| Vinyl Chloride               | ND           | H              | 250              | 1          | 12/31/2014 16:56 |

(Cont.)



## Analytical Report

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Client:</b> AEI Consultants           | <b>WorkOrder:</b> 1412C41         |
| <b>Project:</b> #261829; Foothill Square | <b>Extraction Method:</b> SW5030B |
| <b>Date Received:</b> 12/31/14 10:45     | <b>Analytical Method:</b> SW8260B |
| <b>Date Prepared:</b> 12/31/14           | <b>Unit:</b> µg/m <sup>3</sup>    |

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD INF   | 1412C41-001A | Air            | 12/31/2014 05:45 | GC28       | 99588    |

| Analytes             | Result         | Qualifiers        | RL            | DF | Date Analyzed    |
|----------------------|----------------|-------------------|---------------|----|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> |    |                  |
| Dibromofluoromethane | 101            | H                 | 70-130        |    | 12/31/2014 16:56 |
| Toluene-d8           | 109            | H                 | 70-130        |    | 12/31/2014 16:56 |
| 4-BFB                | 101            | H                 | 70-130        |    | 12/31/2014 16:56 |

Analyst(s): KF



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 12/31/14 10:45  
**Date Prepared:** 12/31/14

**WorkOrder:** 1412C41  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID         |
|------------------------------|--------------|----------------|------------------|------------|------------------|
| SVE-1 INF                    | 1412C41-002A | Air            | 12/31/2014 05:40 | GC28       | 99588            |
| Analytes                     | Result       | Qualifiers     | RL               | DF         | Date Analyzed    |
| Bromodichloromethane         | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| Bromoform                    | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| Bromomethane                 | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| Carbon Tetrachloride         | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| Chlorobenzene                | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| Chloroethane                 | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| Chloroform                   | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| Chloromethane                | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| Dibromochloromethane         | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| 1,2-Dibromoethane (EDB)      | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| 1,2-Dichlorobenzene          | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| 1,3-Dichlorobenzene          | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| 1,4-Dichlorobenzene          | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| Dichlorodifluoromethane      | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| 1,1-Dichloroethane           | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| 1,2-Dichloroethane (1,2-DCA) | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| 1,1-Dichloroethene           | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| cis-1,2-Dichloroethene       | <b>1300</b>  | H              | 250              | 1          | 12/31/2014 17:34 |
| trans-1,2-Dichloroethene     | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| 1,2-Dichloropropane          | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| cis-1,3-Dichloropropene      | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| trans-1,3-Dichloropropene    | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| Freon 113                    | ND           | H              | 5000             | 1          | 12/31/2014 17:34 |
| Methylene chloride           | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| 1,1,1,2-Tetrachloroethane    | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| 1,1,2,2-Tetrachloroethane    | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| Tetrachloroethene            | <b>3100</b>  | H              | 250              | 1          | 12/31/2014 17:34 |
| 1,1,1-Trichloroethane        | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| 1,1,2-Trichloroethane        | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| Trichloroethene              | <b>1200</b>  | H              | 250              | 1          | 12/31/2014 17:34 |
| Trichlorofluoromethane       | ND           | H              | 250              | 1          | 12/31/2014 17:34 |
| Vinyl Chloride               | ND           | H              | 250              | 1          | 12/31/2014 17:34 |

(Cont.)





## Analytical Report

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Client:</b> AEI Consultants           | <b>WorkOrder:</b> 1412C41         |
| <b>Project:</b> #261829; Foothill Square | <b>Extraction Method:</b> SW5030B |
| <b>Date Received:</b> 12/31/14 10:45     | <b>Analytical Method:</b> SW8260B |
| <b>Date Prepared:</b> 12/31/14           | <b>Unit:</b> µg/m <sup>3</sup>    |

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-1 INF | 1412C41-002A | Air            | 12/31/2014 05:40 | GC28       | 99588    |

| Analytes             | Result         | Qualifiers        | RL            | DF | Date Analyzed    |
|----------------------|----------------|-------------------|---------------|----|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> |    |                  |
| Dibromofluoromethane | 103            | H                 | 70-130        |    | 12/31/2014 17:34 |
| Toluene-d8           | 108            | H                 | 70-130        |    | 12/31/2014 17:34 |
| 4-BFB                | 97             | H                 | 70-130        |    | 12/31/2014 17:34 |

Analyst(s): KF



## Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 1/1/15  
**Date Analyzed:** 12/31/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1412C41  
**BatchID:** 99588  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-99588  
 1412B07-001AMS/MSD

### QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 9.60       | 0.50 | 10      | -          | 96       | 43-157     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 10.1       | 0.50 | 10      | -          | 101      | 44-155     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 10.3       | 0.50 | 10      | -          | 103      | 66-125     |
| 1,1-Dichloroethene            | ND        | 10.7       | 0.50 | 10      | -          | 107      | 47-149     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 1/1/15  
**Date Analyzed:** 12/31/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1412C41  
**BatchID:** 99588  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-99588  
 1412B07-001AMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 10.3       | 0.50 | 10      | -          | 103      | 43-157     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |

### Surrogate Recovery

|                      |      |      |  |     |     |     |        |
|----------------------|------|------|--|-----|-----|-----|--------|
| Dibromofluoromethane | 26.6 | 25.6 |  | 25  | 106 | 102 | 65-135 |
| Toluene-d8           | 26.1 | 26.6 |  | 25  | 105 | 107 | 64-127 |
| 4-BFB                | 2.35 | 2.38 |  | 2.5 | 94  | 95  | 59-139 |

(Cont.)



## Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 1/1/15  
**Date Analyzed:** 12/31/14  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1412C41  
**BatchID:** 99588  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-99588  
 1412B07-001AMS/MSD

### QC Summary Report for SW8260B

| Analyte                      | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD   | RPD Limit |
|------------------------------|-----------|------------|---------|------------|---------|----------|---------------|-------|-----------|
| Chlorobenzene                | 9.06      | 9.55       | 10      | ND<50      | 91      | 95       | 70-130        | 5.26  | 20        |
| 1,2-Dibromoethane (EDB)      | 10.1      | 10.8       | 10      | ND<50      | 101     | 109      | 70-130        | 6.96  | 20        |
| 1,2-Dichloroethane (1,2-DCA) | 10.6      | 11.2       | 10      | ND<50      | 105     | 112      | 70-130        | 6.29  | 20        |
| 1,1-Dichloroethene           | 59.4      | 58.4       | 10      | ND<50      | 415,F1  | 405,F1   | 70-130        | 1.65  | 20        |
| Trichloroethene              | 837       | 828        | 10      | 326.3      | 5110,F1 | 5010,F1  | 70-130        | 1.16  | 20        |
| <b>Surrogate Recovery</b>    |           |            |         |            |         |          |               |       |           |
| Dibromofluoromethane         | 27.4      | 27.4       | 25      |            | 109     | 110      | 73-131        | 0.312 | 20        |
| Toluene-d8                   | 25.9      | 26.1       | 25      |            | 104     | 104      | 72-117        | 0     | 20        |
| 4-BFB                        | 2.29      | 2.35       | 2.5     |            | 92      | 94       | 74-116        | 2.36  | 20        |



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1412C41

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQuIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**  
 Jeremy Smith  
 AEI Consultants  
 2500 Camino Diablo, Ste.#200  
 Walnut Creek, CA 94597  
 (925) 283-6000    FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com  
 cc/3rd Party:  
 PO: 74198  
 ProjectNo: #261829; Foothill Square

**Bill to:**  
 Sara Guerin  
 AEI Consultants  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597  
 AccountsPayable@AEIConsultants.com

**Requested TAT: 5 days**  
  
**Date Received: 12/31/2014**  
**Date Printed: 01/07/2015**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 1412C41-001 | SSD INF   | Air    | 12/31/2014 5:45 | <input type="checkbox"/> | A                                  | A | A |   |   |   |   |   |   |    |    |    |  |
| 1412C41-002 | SVE-1 INF | Air    | 12/31/2014 5:40 | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |           |    |                  |   |              |   |  |    |  |
|----|-----------|----|------------------|---|--------------|---|--|----|--|
| 1  | 8010BMS_A | 2  | 8010BMS_A(UG/M3) | 3 | PREDF REPORT | 4 |  | 5  |  |
| 6  |           | 7  |                  | 8 |              | 9 |  | 10 |  |
| 11 |           | 12 |                  |   |              |   |  |    |  |

The following SamplIDs: 001A, 002A contain testgroup.

**Prepared by: Maria Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS  
**Project:** #261829; Foothill Square  
**Comments:**

**QC Level:** LEVEL 2  
**Client Contact:** Jeremy Smith  
**Contact's Email:** jasmith@aeiconsultants.com

**Work Order:** 1412C41  
**Date Received:** 12/31/2014

WaterTrax     WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

| Lab ID       | Client ID | Matrix | Test Name     | Containers /Composites | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT    | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|---------------|------------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1412C41-001A | SSD INF   | Air    | HVOCs by GCMS | 1                      | Tedlar                | <input type="checkbox"/> | 12/31/2014 5:45        | 5 days |                  | <input type="checkbox"/> |        |
| 1412C41-002A | SVE-1 INF | Air    | HVOCs by GCMS | 1                      | Tedlar                | <input type="checkbox"/> | 12/31/2014 5:40        | 5 days |                  | <input type="checkbox"/> |        |

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1412C41

**McCAMPBELL ANALYTICAL INC.**

1534 Willow Pass Road  
Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

**CHAIN OF CUSTODY RECORD**

TURN AROUND TIME

RUSH  
 24 HR  
 48 HR  
 72 HR  
 5 DAY

EDF Required?  Yes  No

Report To: Jeremy Smith Bill To: same P.O. #  
Company: AEI Consultants  
2500 Camino Diablo  
Walnut Creek, CA 94597 E-Mail: jasmith@aeiconsultants.com  
Tele: (925) 746-6000 Fax: (925) 746-6099  
Project #: 261829 Project Name: Foothill Square  
Project Location: 10700 MacArthur Blvd. Oakland, CA  
Sampler Signature: *John S. G...*

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |  |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |  |
| SSD INF                         |          | 12-31-14 | 0545 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |
| SVE-1 INF                       |          | 12-31-14 | 0540 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |

| Analysis Request                            |  |  |  |  |  |  |  |  |  |  |  |  | Other | Comments |  |  |  |
|---------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|-------|----------|--|--|--|
| BTEX & TPH as Gas (602/8020 + 8015)/MTBE    |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |
| TPH as Diesel (8015) w/silica Gel Cleanup   |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |
| Total Petroleum Oil & Grease (5520 E&F/B&F) |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |
| Total Petroleum Hydrocarbons (418.1)        |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |
| HVOCs EPA 8260                              |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |
| BTEX ONLY (EPA 602 / 8020)                  |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |
| EPA 608 / 8080                              |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |
| EPA 608 / 8080 PCB's ONLY                   |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |
| EPA 624 / 8260                              |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |
| EPA 625 / 8270                              |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |
| PAH's / PNA's by EPA 625 / 8270 / 8310      |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |
| CAM-17 Metals                               |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |
| LUFT 5 Metals                               |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |
| Lead (7240/7421/239.2/6010)                 |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |
| RCI                                         |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |

|                                      |                |             |                                 |
|--------------------------------------|----------------|-------------|---------------------------------|
| Relinquished By: <i>JEAN S. G...</i> | Date: 12-31-14 | Time: 10:51 | Received By: <i>[Signature]</i> |
| Relinquished By:                     | Date:          | Time:       | Received By:                    |
| Relinquished By:                     | Date:          | Time:       | Received By:                    |

ICE/t° PA  
 GOOD CONDITION   
 HEAD SPACE ABSENT   
 DECHLORINATED IN LAB

PRESERVATION  
 APPROPRIATE   
 CONTAINERS   
 PERSERVED IN LAB

VOAS  O&G  METALS  OTHER



### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **12/31/2014 10:45:46 AM**  
 Project Name: **#261829; Foothill Square** LogIn Reviewed by: **Maria Venegas**  
 WorkOrder No: **1412C41** Matrix: Air Carrier: Client Drop-In

#### Chain of Custody (COC) Information

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

#### Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes  No   
 Sample/Temp Blank temperature Temp: NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes  No  NA   
 Samples Received on Ice? Yes  No

#### UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes  No  NA   
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes  No  NA

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:





# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1501350

**Report Created for:** AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597

**Project Contact:** Jeremy Smith  
**Project P.O.:**  
**Project Name:** #261829; Foothill Square

**Project Received:** 01/14/2015

Analytical Report reviewed & approved for release on 01/21/2015 by:

Question about  
your data?

[Click here to email  
McC Campbell](#)

Angela Rydelius,  
Laboratory Manager

***The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.***





## Glossary of Terms & Qualifier Definitions

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**WorkOrder:** 1501350

### Glossary Abbreviation

|              |                                                                                          |
|--------------|------------------------------------------------------------------------------------------|
| 95% Interval | 95% Confident Interval                                                                   |
| DF           | Dilution Factor                                                                          |
| DUP          | Duplicate                                                                                |
| EDL          | Estimated Detection Limit                                                                |
| ITEF         | International Toxicity Equivalence Factor                                                |
| LCS          | Laboratory Control Sample                                                                |
| MB           | Method Blank                                                                             |
| MB % Rec     | % Recovery of Surrogate in Method Blank, if applicable                                   |
| MDL          | Method Detection Limit                                                                   |
| ML           | Minimum Level of Quantitation                                                            |
| MS           | Matrix Spike                                                                             |
| MSD          | Matrix Spike Duplicate                                                                   |
| ND           | Not detected at or above the indicated MDL or RL                                         |
| NR           | Data Not Reported due to matrix interference or insufficient sample amount.              |
| PF           | Prep Factor                                                                              |
| RD           | Relative Difference                                                                      |
| RL           | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD          | Relative Percent Deviation                                                               |
| RRT          | Relative Retention Time                                                                  |
| SPK Val      | Spike Value                                                                              |
| SPKRef Val   | Spike Reference Value                                                                    |
| TEQ          | Toxicity Equivalence                                                                     |

### Analytical Qualifiers

H samples were analyzed out of holding time



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/14/15 9:52  
**Date Prepared:** 1/14/15

**WorkOrder:** 1501350  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID       | Matrix/ExtType | Date Collected   | Instrument       | Batch ID |
|------------------------------|--------------|----------------|------------------|------------------|----------|
| SSD INF                      | 1501350-001A | Air            | 01/14/2015 07:45 | GC38             | 100030   |
| Analytes                     | Result       | RL             | DF               | Date Analyzed    |          |
| Bromodichloromethane         | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| Bromoform                    | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| Bromomethane                 | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| Carbon Tetrachloride         | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| Chlorobenzene                | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| Chloroethane                 | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| Chloroform                   | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| Chloromethane                | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| Dibromochloromethane         | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| 1,2-Dibromoethane (EDB)      | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| 1,2-Dichlorobenzene          | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| 1,3-Dichlorobenzene          | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| 1,4-Dichlorobenzene          | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| Dichlorodifluoromethane      | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| 1,1-Dichloroethane           | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| 1,2-Dichloroethane (1,2-DCA) | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| 1,1-Dichloroethene           | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| cis-1,2-Dichloroethene       | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| trans-1,2-Dichloroethene     | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| 1,2-Dichloropropane          | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| cis-1,3-Dichloropropene      | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| trans-1,3-Dichloropropene    | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| Freon 113                    | ND           | 5.0            | 1                | 01/14/2015 11:40 |          |
| Methylene chloride           | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| 1,1,1,2-Tetrachloroethane    | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| 1,1,2,2-Tetrachloroethane    | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| Tetrachloroethene            | <b>0.78</b>  | 0.25           | 1                | 01/14/2015 11:40 |          |
| 1,1,1-Trichloroethane        | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| 1,1,2-Trichloroethane        | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| Trichloroethene              | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| Trichlorofluoromethane       | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |
| Vinyl Chloride               | ND           | 0.25           | 1                | 01/14/2015 11:40 |          |

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/14/15 9:52  
**Date Prepared:** 1/14/15

**WorkOrder:** 1501350  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD INF   | 1501350-001A | Air            | 01/14/2015 07:45 | GC38       | 100030   |

| Analytes             | Result         | RL     | DF            | Date Analyzed    |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> |        | <u>Limits</u> |                  |
| Dibromofluoromethane | 92             | 70-130 |               | 01/14/2015 11:40 |
| Toluene-d8           | 95             | 70-130 |               | 01/14/2015 11:40 |
| 4-BFB                | 97             | 70-130 |               | 01/14/2015 11:40 |

**Analyst(s):** KF



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/14/15 9:52  
**Date Prepared:** 1/14/15

**WorkOrder:** 1501350  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID         |
|------------------------------|--------------|----------------|------------------|------------|------------------|
| SVE-1 INF                    | 1501350-002A | Air            | 01/14/2015 07:30 | GC16       | 100030           |
| Analytes                     | Result       | Qualifiers     | RL               | DF         | Date Analyzed    |
| Bromodichloromethane         | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| Bromoform                    | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| Bromomethane                 | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| Carbon Tetrachloride         | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| Chlorobenzene                | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| Chloroethane                 | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| Chloroform                   | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| Chloromethane                | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| Dibromochloromethane         | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| 1,2-Dibromoethane (EDB)      | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| 1,2-Dichlorobenzene          | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| 1,3-Dichlorobenzene          | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| 1,4-Dichlorobenzene          | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| Dichlorodifluoromethane      | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| 1,1-Dichloroethane           | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| 1,2-Dichloroethane (1,2-DCA) | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| 1,1-Dichloroethene           | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| cis-1,2-Dichloroethene       | <b>26</b>    | H              | 1.7              | 7          | 01/14/2015 20:26 |
| trans-1,2-Dichloroethene     | <b>4.2</b>   | H              | 1.7              | 7          | 01/14/2015 20:26 |
| 1,2-Dichloropropane          | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| cis-1,3-Dichloropropene      | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| trans-1,3-Dichloropropene    | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| Freon 113                    | ND           | H              | 33               | 7          | 01/14/2015 20:26 |
| Methylene chloride           | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| 1,1,1,2-Tetrachloroethane    | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| 1,1,1,2,2-Tetrachloroethane  | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| Tetrachloroethene            | <b>82</b>    | H              | 1.7              | 7          | 01/14/2015 20:26 |
| 1,1,1-Trichloroethane        | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| 1,1,2-Trichloroethane        | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| Trichloroethene              | <b>25</b>    | H              | 1.7              | 7          | 01/14/2015 20:26 |
| Trichlorofluoromethane       | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |
| Vinyl Chloride               | ND           | H              | 1.7              | 7          | 01/14/2015 20:26 |

(Cont.)



# Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/14/15 9:52  
**Date Prepared:** 1/14/15

**WorkOrder:** 1501350  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-1 INF | 1501350-002A | Air            | 01/14/2015 07:30 | GC16       | 100030   |

| Analytes             | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|----------------------|---------|------------|--------|----|------------------|
| Surrogates           | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane | 100     | H          | 70-130 |    | 01/14/2015 20:26 |
| Toluene-d8           | 99      | H          | 70-130 |    | 01/14/2015 20:26 |
| 4-BFB                | 90      | H          | 70-130 |    | 01/14/2015 20:26 |

Analyst(s): KF



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/14/15 9:52  
**Date Prepared:** 1/14/15

**WorkOrder:** 1501350  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD INF   | 1501350-001A | Air            | 01/14/2015 07:45 | GC38       | 100030   |

| Analytes                     | Result     | RL   | DF | Date Analyzed    |
|------------------------------|------------|------|----|------------------|
| Bromodichloromethane         | ND         | 250  | 1  | 01/14/2015 11:40 |
| Bromoform                    | ND         | 250  | 1  | 01/14/2015 11:40 |
| Bromomethane                 | ND         | 250  | 1  | 01/14/2015 11:40 |
| Carbon Tetrachloride         | ND         | 250  | 1  | 01/14/2015 11:40 |
| Chlorobenzene                | ND         | 250  | 1  | 01/14/2015 11:40 |
| Chloroethane                 | ND         | 250  | 1  | 01/14/2015 11:40 |
| Chloroform                   | ND         | 250  | 1  | 01/14/2015 11:40 |
| Chloromethane                | ND         | 250  | 1  | 01/14/2015 11:40 |
| Dibromochloromethane         | ND         | 250  | 1  | 01/14/2015 11:40 |
| 1,2-Dibromoethane (EDB)      | ND         | 250  | 1  | 01/14/2015 11:40 |
| 1,2-Dichlorobenzene          | ND         | 250  | 1  | 01/14/2015 11:40 |
| 1,3-Dichlorobenzene          | ND         | 250  | 1  | 01/14/2015 11:40 |
| 1,4-Dichlorobenzene          | ND         | 250  | 1  | 01/14/2015 11:40 |
| Dichlorodifluoromethane      | ND         | 250  | 1  | 01/14/2015 11:40 |
| 1,1-Dichloroethane           | ND         | 250  | 1  | 01/14/2015 11:40 |
| 1,2-Dichloroethane (1,2-DCA) | ND         | 250  | 1  | 01/14/2015 11:40 |
| 1,1-Dichloroethene           | ND         | 250  | 1  | 01/14/2015 11:40 |
| cis-1,2-Dichloroethene       | ND         | 250  | 1  | 01/14/2015 11:40 |
| trans-1,2-Dichloroethene     | ND         | 250  | 1  | 01/14/2015 11:40 |
| 1,2-Dichloropropane          | ND         | 250  | 1  | 01/14/2015 11:40 |
| cis-1,3-Dichloropropene      | ND         | 250  | 1  | 01/14/2015 11:40 |
| trans-1,3-Dichloropropene    | ND         | 250  | 1  | 01/14/2015 11:40 |
| Freon 113                    | ND         | 5000 | 1  | 01/14/2015 11:40 |
| Methylene chloride           | ND         | 250  | 1  | 01/14/2015 11:40 |
| 1,1,1,2-Tetrachloroethane    | ND         | 250  | 1  | 01/14/2015 11:40 |
| 1,1,2,2-Tetrachloroethane    | ND         | 250  | 1  | 01/14/2015 11:40 |
| Tetrachloroethene            | <b>780</b> | 250  | 1  | 01/14/2015 11:40 |
| 1,1,1-Trichloroethane        | ND         | 250  | 1  | 01/14/2015 11:40 |
| 1,1,2-Trichloroethane        | ND         | 250  | 1  | 01/14/2015 11:40 |
| Trichloroethene              | ND         | 250  | 1  | 01/14/2015 11:40 |
| Trichlorofluoromethane       | ND         | 250  | 1  | 01/14/2015 11:40 |
| Vinyl Chloride               | ND         | 250  | 1  | 01/14/2015 11:40 |

(Cont.)



# Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/14/15 9:52  
**Date Prepared:** 1/14/15

**WorkOrder:** 1501350  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD INF   | 1501350-001A | Air            | 01/14/2015 07:45 | GC38       | 100030   |

| Analytes             | Result         | RL     | DF            | Date Analyzed    |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> |        | <u>Limits</u> |                  |
| Dibromofluoromethane | 92             | 70-130 |               | 01/14/2015 11:40 |
| Toluene-d8           | 95             | 70-130 |               | 01/14/2015 11:40 |
| 4-BFB                | 97             | 70-130 |               | 01/14/2015 11:40 |

Analyst(s): KF





## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/14/15 9:52  
**Date Prepared:** 1/14/15

**WorkOrder:** 1501350  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID        | Matrix/ExtType | Date Collected   | Instrument | Batch ID         |
|------------------------------|---------------|----------------|------------------|------------|------------------|
| SVE-1 INF                    | 1501350-002A  | Air            | 01/14/2015 07:30 | GC16       | 100030           |
| Analytes                     | Result        | Qualifiers     | RL               | DF         | Date Analyzed    |
| Bromodichloromethane         | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| Bromoform                    | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| Bromomethane                 | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| Carbon Tetrachloride         | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| Chlorobenzene                | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| Chloroethane                 | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| Chloroform                   | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| Chloromethane                | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| Dibromochloromethane         | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| 1,2-Dibromoethane (EDB)      | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| 1,2-Dichlorobenzene          | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| 1,3-Dichlorobenzene          | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| 1,4-Dichlorobenzene          | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| Dichlorodifluoromethane      | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| 1,1-Dichloroethane           | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| 1,2-Dichloroethane (1,2-DCA) | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| 1,1-Dichloroethene           | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| cis-1,2-Dichloroethene       | <b>26,000</b> | H              | 1700             | 7          | 01/14/2015 20:26 |
| trans-1,2-Dichloroethene     | <b>4200</b>   | H              | 1700             | 7          | 01/14/2015 20:26 |
| 1,2-Dichloropropane          | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| cis-1,3-Dichloropropene      | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| trans-1,3-Dichloropropene    | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| Freon 113                    | ND            | H              | 33,000           | 7          | 01/14/2015 20:26 |
| Methylene chloride           | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| 1,1,1,2-Tetrachloroethane    | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| 1,1,1,2,2-Tetrachloroethane  | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| Tetrachloroethene            | <b>82,000</b> | H              | 1700             | 7          | 01/14/2015 20:26 |
| 1,1,1-Trichloroethane        | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| 1,1,2-Trichloroethane        | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| Trichloroethene              | <b>25,000</b> | H              | 1700             | 7          | 01/14/2015 20:26 |
| Trichlorofluoromethane       | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |
| Vinyl Chloride               | ND            | H              | 1700             | 7          | 01/14/2015 20:26 |

(Cont.)



# Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 1/14/15 9:52  
**Date Prepared:** 1/14/15

**WorkOrder:** 1501350  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-1 INF | 1501350-002A | Air            | 01/14/2015 07:30 | GC16       | 100030   |

| Analytes             | Result         | Qualifiers        | RL            | DF | Date Analyzed    |
|----------------------|----------------|-------------------|---------------|----|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> |    |                  |
| Dibromofluoromethane | 100            | H                 | 70-130        |    | 01/14/2015 20:26 |
| Toluene-d8           | 99             | H                 | 70-130        |    | 01/14/2015 20:26 |
| 4-BFB                | 90             | H                 | 70-130        |    | 01/14/2015 20:26 |

Analyst(s): KF



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 1/14/15  
**Date Analyzed:** 1/14/15  
**Instrument:** GC38  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1501350  
**BatchID:** 100030  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-100030  
 1501210-041BMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 10.0       | 0.50 | 10      | -          | 100      | 43-157     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 8.63       | 0.50 | 10      | -          | 86       | 44-155     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 9.37       | 0.50 | 10      | -          | 94       | 66-125     |
| 1,1-Dichloroethene            | ND        | 9.76       | 0.50 | 10      | -          | 98       | 47-149     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 1/14/15  
**Date Analyzed:** 1/14/15  
**Instrument:** GC38  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1501350  
**BatchID:** 100030  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-100030  
 1501210-041BMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 10.5       | 0.50 | 10      | -          | 105      | 43-157     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |

### Surrogate Recovery

|                      |      |      |  |     |    |     |        |
|----------------------|------|------|--|-----|----|-----|--------|
| Dibromofluoromethane | 22.6 | 25.2 |  | 25  | 90 | 101 | 65-135 |
| Toluene-d8           | 23.6 | 22.7 |  | 25  | 94 | 91  | 64-112 |
| 4-BFB                | 2.31 | 2.29 |  | 2.5 | 92 | 92  | 59-139 |

(Cont.)



## Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 1/14/15  
**Date Analyzed:** 1/14/15  
**Instrument:** GC38  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1501350  
**BatchID:** 100030  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-100030  
 1501210-041BMS/MSD

### QC Summary Report for SW8260B

| Analyte                      | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD   | RPD Limit |
|------------------------------|-----------|------------|---------|------------|---------|----------|---------------|-------|-----------|
| Chlorobenzene                | 11.3      | 11.4       | 10      | ND         | 113     | 114      | 70-130        | 1.06  | 20        |
| 1,2-Dibromoethane (EDB)      | 11.6      | 11.6       | 10      | ND         | 116     | 116      | 70-130        | 0     | 20        |
| 1,2-Dichloroethane (1,2-DCA) | 12.2      | 11.9       | 10      | ND         | 122     | 119      | 70-130        | 2.49  | 20        |
| 1,1-Dichloroethene           | 11.6      | 10.9       | 10      | ND         | 116     | 109      | 70-130        | 5.83  | 20        |
| Trichloroethene              | 13.4      | 13.6       | 10      | 1.7        | 117     | 118      | 70-130        | 0.729 | 20        |
| <b>Surrogate Recovery</b>    |           |            |         |            |         |          |               |       |           |
| Dibromofluoromethane         | 26.3      | 25.6       | 25      |            | 105     | 102      | 73-131        | 2.86  | 20        |
| Toluene-d8                   | 22.5      | 22.5       | 25      |            | 90      | 90       | 72-117        | 0     | 20        |
| 4-BFB                        | 2.27      | 2.28       | 2.5     |            | 91      | 91       | 74-116        | 0     | 20        |

1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1501350

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQuIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**  
 Jeremy Smith  
 AEI Consultants  
 2500 Camino Diablo, Ste.#200  
 Walnut Creek, CA 94597  
 (925) 283-6000    FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com  
 cc/3rd Party:  
 PO:  
 ProjectNo: #261829; Foothill Square

**Bill to:**  
 Sara Guerin  
 AEI Consultants  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597  
 AccountsPayable@AEIConsultants.com

**Requested TAT: 5 days**  
  
**Date Received: 01/14/2015**  
**Date Printed: 01/21/2015**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 1501350-001 | SSD INF   | Air    | 1/14/2015 7:45  | <input type="checkbox"/> | A                                  | A | A |   |   |   |   |   |   |    |    |    |  |
| 1501350-002 | SVE-1 INF | Air    | 1/14/2015 7:30  | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |           |    |                  |   |              |   |  |    |  |
|----|-----------|----|------------------|---|--------------|---|--|----|--|
| 1  | 8010BMS_A | 2  | 8010BMS_A(UG/M3) | 3 | PREDF REPORT | 4 |  | 5  |  |
| 6  |           | 7  |                  | 8 |              | 9 |  | 10 |  |
| 11 |           | 12 |                  |   |              |   |  |    |  |

The following SamplIDs: 001A, 002A contain testgroup.

**Prepared by: Maria Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS  
**Project:** #261829; Foothill Square  
**Comments:**

**QC Level:** LEVEL 2  
**Client Contact:** Jeremy Smith  
**Contact's Email:** jasmith@aeiconsultants.com

**Work Order:** 1501350  
**Date Received:** 1/14/2015

WaterTrax     WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

| Lab ID       | Client ID | Matrix | Test Name     | Containers /Composites | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT    | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|---------------|------------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1501350-001A | SSD INF   | Air    | HVOCs by GCMS | 1                      | Tedlar                | <input type="checkbox"/> | 1/14/2015 7:45         | 5 days |                  | <input type="checkbox"/> |        |
| 1501350-002A | SVE-1 INF | Air    | HVOCs by GCMS | 1                      | Tedlar                | <input type="checkbox"/> | 1/14/2015 7:30         | 5 days |                  | <input type="checkbox"/> |        |

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1501350

**McCAMPBELL ANALYTICAL INC.**

1534 Willow Pass Road  
Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

**CHAIN OF CUSTODY RECORD**

TURN AROUND TIME

RUSH  
 24 HR  
 48 HR  
 72 HR  
 5 DAY

EDF Required?  Yes  No

Report To: Jeremy Smith Bill To: same P.O. #  
Company: AEI Consultants  
2500 Camino Diablo  
Walnut Creek, CA 94597 E-Mail: jsmith@aeiconsultants.com  
Tele: (925) 746-6000 Fax: (925) 746-6099  
Project #: 261829 Project Name: Foothill Square  
Project Location: 10700 MacArthur Blvd. Oakland, CA  
Sampler Signature: *John Sigg*

Analysis Request

Other

Comments

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |  |  |  |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|--|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |  |  |  |
| SSD INF                         |          | 1-14-15  | 0745 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| SVE-1 INF                       |          | 1-14-15  | 0730 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |

|                                             |   |
|---------------------------------------------|---|
| BTEX & TPH as Gas (602/8020 + 8015)/MTBE    |   |
| TPH as Diesel (8015) w/silica Gel Cleanup   |   |
| Total Petroleum Oil & Grease (5520 E&F/B&F) |   |
| Total Petroleum Hydrocarbons (418.1)        |   |
| HVOCs EPA 8260                              | X |
| BTEX ONLY (EPA 602 / 8020)                  |   |
| EPA 608 / 8080                              |   |
| EPA 608 / 8080 PCB's ONLY                   |   |
| EPA 624 / 8260                              |   |
| EPA 625 / 8270                              |   |
| PAH's / PNA's by EPA 625 / 8270 / 8310      |   |
| CAM-17 Metals                               |   |
| LUFT 5 Metals                               |   |
| Lead (7240/7421/239.2/6010)                 |   |
| RCI                                         |   |

|                                   |               |            |                          |
|-----------------------------------|---------------|------------|--------------------------|
| Relinquished By: <i>John Sigg</i> | Date: 1-14-15 | Time: 0856 | Received By: <i>M...</i> |
| Relinquished By:                  | Date:         | Time:      | Received By:             |
| Relinquished By:                  | Date:         | Time:      | Received By:             |

|                                                       |                                           |     |        |       |
|-------------------------------------------------------|-------------------------------------------|-----|--------|-------|
| ICE/t° <i>N/A</i>                                     | VOAS                                      | O&G | METALS | OTHER |
| GOOD CONDITION <input checked="" type="checkbox"/>    | PRESERVATION APPROPRIATE                  |     |        |       |
| HEAD SPACE ABSENT <input checked="" type="checkbox"/> | CONTAINERS                                |     |        |       |
| DECHLORINATED IN LAB <input type="checkbox"/>         | PERSERVED IN LAB <input type="checkbox"/> |     |        |       |





### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **1/14/2015 9:52:04 AM**  
 Project Name: **#261829; Foothill Square** LogIn Reviewed by: **Maria Venegas**  
 WorkOrder No: **1501350** Matrix: Air Carrier: Client Drop-In

**Chain of Custody (COC) Information**

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
 Sample/Temp Blank temperature Temp: NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes  No  NA   
 Samples Received on Ice? Yes  No

**UCMR3 Samples:**

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes  No  NA   
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes  No  NA

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1502441

**Report Created for:** AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597

**Project Contact:** Jeremy Smith  
**Project P.O.:**  
**Project Name:** #261829; Foothill Sqaure

**Project Received:** 02/12/2015

Analytical Report reviewed & approved for release on 02/19/2015 by:

Question about  
your data?

[Click here to email  
McC Campbell](#)

Angela Rydelius,  
Laboratory Manager

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## Glossary of Terms & Qualifier Definitions

**Client:** AEI Consultants  
**Project:** #261829; Foothill Sqaure  
**WorkOrder:** 1502441

### Glossary Abbreviation

|              |                                                                                          |
|--------------|------------------------------------------------------------------------------------------|
| 95% Interval | 95% Confident Interval                                                                   |
| DF           | Dilution Factor                                                                          |
| DUP          | Duplicate                                                                                |
| EDL          | Estimated Detection Limit                                                                |
| ITEF         | International Toxicity Equivalence Factor                                                |
| LCS          | Laboratory Control Sample                                                                |
| MB           | Method Blank                                                                             |
| MB % Rec     | % Recovery of Surrogate in Method Blank, if applicable                                   |
| MDL          | Method Detection Limit                                                                   |
| ML           | Minimum Level of Quantitation                                                            |
| MS           | Matrix Spike                                                                             |
| MSD          | Matrix Spike Duplicate                                                                   |
| ND           | Not detected at or above the indicated MDL or RL                                         |
| NR           | Data Not Reported due to matrix interference or insufficient sample amount.              |
| PF           | Prep Factor                                                                              |
| RD           | Relative Difference                                                                      |
| RL           | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD          | Relative Percent Deviation                                                               |
| RRT          | Relative Retention Time                                                                  |
| SPK Val      | Spike Value                                                                              |
| SPKRef Val   | Spike Reference Value                                                                    |
| TEQ          | Toxicity Equivalence                                                                     |

### Analytical Qualifiers

H samples were analyzed out of holding time



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Sqaure  
**Date Received:** 2/12/15 8:55  
**Date Prepared:** 2/12/15

**WorkOrder:** 1502441  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD INF   | 1502441-001A | Air            | 02/12/2015 05:00 | GC18       | 101204   |

| Analytes                     | Result      | Qualifiers | RL   | DF | Date Analyzed    |
|------------------------------|-------------|------------|------|----|------------------|
| Bromodichloromethane         | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| Bromoform                    | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| Bromomethane                 | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| Carbon Tetrachloride         | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| Chlorobenzene                | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| Chloroethane                 | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| Chloroform                   | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| Chloromethane                | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| Dibromochloromethane         | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| 1,2-Dibromoethane (EDB)      | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| 1,2-Dichlorobenzene          | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| 1,3-Dichlorobenzene          | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| 1,4-Dichlorobenzene          | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| Dichlorodifluoromethane      | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| 1,1-Dichloroethane           | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| 1,2-Dichloroethane (1,2-DCA) | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| 1,1-Dichloroethene           | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| cis-1,2-Dichloroethene       | <b>0.30</b> | H          | 0.25 | 1  | 02/12/2015 11:03 |
| trans-1,2-Dichloroethene     | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| 1,2-Dichloropropane          | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| cis-1,3-Dichloropropene      | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| trans-1,3-Dichloropropene    | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| Freon 113                    | ND          | H          | 5.0  | 1  | 02/12/2015 11:03 |
| Methylene chloride           | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| 1,1,1,2-Tetrachloroethane    | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| 1,1,2,2-Tetrachloroethane    | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| Tetrachloroethene            | <b>1.6</b>  | H          | 0.25 | 1  | 02/12/2015 11:03 |
| 1,1,1-Trichloroethane        | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| 1,1,2-Trichloroethane        | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| Trichloroethene              | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| Trichlorofluoromethane       | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |
| Vinyl Chloride               | ND          | H          | 0.25 | 1  | 02/12/2015 11:03 |

(Cont.)



## Analytical Report

**Client:** AEI Consultants **WorkOrder:** 1502441  
**Project:** #261829; Foothill Sqaure **Extraction Method:** SW5030B  
**Date Received:** 2/12/15 8:55 **Analytical Method:** SW8260B  
**Date Prepared:** 2/12/15 **Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD INF   | 1502441-001A | Air            | 02/12/2015 05:00 | GC18       | 101204   |

| Analytes             | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|----------------------|---------|------------|--------|----|------------------|
| Surrogates           | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane | 95      | H          | 70-130 |    | 02/12/2015 11:03 |
| Toluene-d8           | 101     | H          | 70-130 |    | 02/12/2015 11:03 |
| 4-BFB                | 88      | H          | 70-130 |    | 02/12/2015 11:03 |

Analyst(s): AK



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Sqaure  
**Date Received:** 2/12/15 8:55  
**Date Prepared:** 2/12/15

**WorkOrder:** 1502441  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID         |
|------------------------------|--------------|----------------|------------------|------------|------------------|
| SVE-1 INF                    | 1502441-002A | Air            | 02/12/2015 05:10 | GC18       | 101204           |
| Analytes                     | Result       | Qualifiers     | RL               | DF         | Date Analyzed    |
| Bromodichloromethane         | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| Bromoform                    | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| Bromomethane                 | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| Carbon Tetrachloride         | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| Chlorobenzene                | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| Chloroethane                 | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| Chloroform                   | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| Chloromethane                | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| Dibromochloromethane         | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| 1,2-Dibromoethane (EDB)      | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| 1,2-Dichlorobenzene          | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| 1,3-Dichlorobenzene          | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| 1,4-Dichlorobenzene          | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| Dichlorodifluoromethane      | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| 1,1-Dichloroethane           | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| 1,2-Dichloroethane (1,2-DCA) | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| 1,1-Dichloroethene           | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| cis-1,2-Dichloroethene       | 26           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| trans-1,2-Dichloroethene     | 4.1          | H              | 1.7              | 7          | 02/12/2015 15:34 |
| 1,2-Dichloropropane          | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| cis-1,3-Dichloropropene      | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| trans-1,3-Dichloropropene    | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| Freon 113                    | ND           | H              | 33               | 7          | 02/12/2015 15:34 |
| Methylene chloride           | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| 1,1,1,2-Tetrachloroethane    | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| 1,1,1,2,2-Tetrachloroethane  | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| Tetrachloroethene            | 77           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| 1,1,1-Trichloroethane        | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| 1,1,2-Trichloroethane        | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| Trichloroethene              | 27           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| Trichlorofluoromethane       | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |
| Vinyl Chloride               | ND           | H              | 1.7              | 7          | 02/12/2015 15:34 |

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Sqaure  
**Date Received:** 2/12/15 8:55  
**Date Prepared:** 2/12/15

**WorkOrder:** 1502441  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-1 INF | 1502441-002A | Air            | 02/12/2015 05:10 | GC18       | 101204   |

| Analytes             | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|----------------------|---------|------------|--------|----|------------------|
| Surrogates           | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane | 94      | H          | 70-130 |    | 02/12/2015 15:34 |
| Toluene-d8           | 98      | H          | 70-130 |    | 02/12/2015 15:34 |
| 4-BFB                | 92      | H          | 70-130 |    | 02/12/2015 15:34 |

Analyst(s): AK



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Sqaure  
**Date Received:** 2/12/15 8:55  
**Date Prepared:** 2/12/15

**WorkOrder:** 1502441  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD INF   | 1502441-001A | Air            | 02/12/2015 05:00 | GC18       | 101204   |

| Analytes                     | Result      | Qualifiers | RL   | DF | Date Analyzed    |
|------------------------------|-------------|------------|------|----|------------------|
| Bromodichloromethane         | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| Bromoform                    | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| Bromomethane                 | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| Carbon Tetrachloride         | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| Chlorobenzene                | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| Chloroethane                 | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| Chloroform                   | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| Chloromethane                | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| Dibromochloromethane         | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| 1,2-Dibromoethane (EDB)      | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| 1,2-Dichlorobenzene          | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| 1,3-Dichlorobenzene          | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| 1,4-Dichlorobenzene          | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| Dichlorodifluoromethane      | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| 1,1-Dichloroethane           | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| 1,2-Dichloroethane (1,2-DCA) | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| 1,1-Dichloroethene           | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| cis-1,2-Dichloroethene       | <b>300</b>  | H          | 250  | 1  | 02/12/2015 11:03 |
| trans-1,2-Dichloroethene     | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| 1,2-Dichloropropane          | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| cis-1,3-Dichloropropene      | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| trans-1,3-Dichloropropene    | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| Freon 113                    | ND          | H          | 5000 | 1  | 02/12/2015 11:03 |
| Methylene chloride           | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| 1,1,1,2-Tetrachloroethane    | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| 1,1,2,2-Tetrachloroethane    | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| Tetrachloroethene            | <b>1600</b> | H          | 250  | 1  | 02/12/2015 11:03 |
| 1,1,1-Trichloroethane        | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| 1,1,2-Trichloroethane        | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| Trichloroethene              | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| Trichlorofluoromethane       | ND          | H          | 250  | 1  | 02/12/2015 11:03 |
| Vinyl Chloride               | ND          | H          | 250  | 1  | 02/12/2015 11:03 |

(Cont.)





## Analytical Report

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Client:</b> AEI Consultants           | <b>WorkOrder:</b> 1502441         |
| <b>Project:</b> #261829; Foothill Sqaure | <b>Extraction Method:</b> SW5030B |
| <b>Date Received:</b> 2/12/15 8:55       | <b>Analytical Method:</b> SW8260B |
| <b>Date Prepared:</b> 2/12/15            | <b>Unit:</b> µg/m <sup>3</sup>    |

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD INF   | 1502441-001A | Air            | 02/12/2015 05:00 | GC18       | 101204   |

| Analytes             | Result         | Qualifiers        | RL            | DF | Date Analyzed    |
|----------------------|----------------|-------------------|---------------|----|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> |    |                  |
| Dibromofluoromethane | 95             | H                 | 70-130        |    | 02/12/2015 11:03 |
| Toluene-d8           | 101            | H                 | 70-130        |    | 02/12/2015 11:03 |
| 4-BFB                | 88             | H                 | 70-130        |    | 02/12/2015 11:03 |

Analyst(s): AK



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Sqaure  
**Date Received:** 2/12/15 8:55  
**Date Prepared:** 2/12/15

**WorkOrder:** 1502441  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID        | Matrix/ExtType | Date Collected   | Instrument | Batch ID         |
|------------------------------|---------------|----------------|------------------|------------|------------------|
| SVE-1 INF                    | 1502441-002A  | Air            | 02/12/2015 05:10 | GC18       | 101204           |
| Analytes                     | Result        | Qualifiers     | RL               | DF         | Date Analyzed    |
| Bromodichloromethane         | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| Bromoform                    | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| Bromomethane                 | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| Carbon Tetrachloride         | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| Chlorobenzene                | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| Chloroethane                 | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| Chloroform                   | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| Chloromethane                | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| Dibromochloromethane         | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| 1,2-Dibromoethane (EDB)      | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| 1,2-Dichlorobenzene          | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| 1,3-Dichlorobenzene          | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| 1,4-Dichlorobenzene          | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| Dichlorodifluoromethane      | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| 1,1-Dichloroethane           | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| 1,2-Dichloroethane (1,2-DCA) | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| 1,1-Dichloroethene           | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| cis-1,2-Dichloroethene       | <b>26,000</b> | H              | 1700             | 7          | 02/12/2015 15:34 |
| trans-1,2-Dichloroethene     | <b>4100</b>   | H              | 1700             | 7          | 02/12/2015 15:34 |
| 1,2-Dichloropropane          | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| cis-1,3-Dichloropropene      | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| trans-1,3-Dichloropropene    | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| Freon 113                    | ND            | H              | 33,000           | 7          | 02/12/2015 15:34 |
| Methylene chloride           | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| 1,1,1,2-Tetrachloroethane    | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| 1,1,1,2,2-Tetrachloroethane  | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| Tetrachloroethene            | <b>77,000</b> | H              | 1700             | 7          | 02/12/2015 15:34 |
| 1,1,1-Trichloroethane        | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| 1,1,2-Trichloroethane        | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| Trichloroethene              | <b>27,000</b> | H              | 1700             | 7          | 02/12/2015 15:34 |
| Trichlorofluoromethane       | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |
| Vinyl Chloride               | ND            | H              | 1700             | 7          | 02/12/2015 15:34 |

(Cont.)



## Analytical Report

**Client:** AEI Consultants **WorkOrder:** 1502441  
**Project:** #261829; Foothill Sqaure **Extraction Method:** SW5030B  
**Date Received:** 2/12/15 8:55 **Analytical Method:** SW8260B  
**Date Prepared:** 2/12/15 **Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-1 INF | 1502441-002A | Air            | 02/12/2015 05:10 | GC18       | 101204   |

| Analytes             | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|----------------------|---------|------------|--------|----|------------------|
| Surrogates           | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane | 94      | H          | 70-130 |    | 02/12/2015 15:34 |
| Toluene-d8           | 98      | H          | 70-130 |    | 02/12/2015 15:34 |
| 4-BFB                | 92      | H          | 70-130 |    | 02/12/2015 15:34 |

Analyst(s): AK



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 2/13/15  
**Date Analyzed:** 2/12/15  
**Instrument:** GC18  
**Matrix:** Water  
**Project:** #261829; Foothill Sqaure

**WorkOrder:** 1502441  
**BatchID:** 101204  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-101204  
 1502372-004AMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 9.45       | 0.50 | 10      | -          | 95       | 43-157     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 9.77       | 0.50 | 10      | -          | 98       | 44-155     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 10.4       | 0.50 | 10      | -          | 104      | 66-125     |
| 1,1-Dichloroethene            | ND        | 9.71       | 0.50 | 10      | -          | 97       | 47-149     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 2/13/15  
**Date Analyzed:** 2/12/15  
**Instrument:** GC18  
**Matrix:** Water  
**Project:** #261829; Foothill Sqaure

**WorkOrder:** 1502441  
**BatchID:** 101204  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-101204  
 1502372-004AMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 9.81       | 0.50 | 10      | -          | 98       | 43-157     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |

### Surrogate Recovery

|                      |      |      |  |     |    |    |        |
|----------------------|------|------|--|-----|----|----|--------|
| Dibromofluoromethane | 24.2 | 24.6 |  | 25  | 97 | 98 | 65-135 |
| Toluene-d8           | 24.4 | 23.5 |  | 25  | 98 | 94 | 64-112 |
| 4-BFB                | 2.34 | 2.39 |  | 2.5 | 93 | 96 | 59-139 |

(Cont.)



## Quality Control Report

|                       |                          |                           |                                     |
|-----------------------|--------------------------|---------------------------|-------------------------------------|
| <b>Client:</b>        | AEI Consultants          | <b>WorkOrder:</b>         | 1502441                             |
| <b>Date Prepared:</b> | 2/13/15                  | <b>BatchID:</b>           | 101204                              |
| <b>Date Analyzed:</b> | 2/12/15                  | <b>Extraction Method:</b> | SW5030B                             |
| <b>Instrument:</b>    | GC18                     | <b>Analytical Method:</b> | SW8260B                             |
| <b>Matrix:</b>        | Water                    | <b>Unit:</b>              | µg/L                                |
| <b>Project:</b>       | #261829; Foothill Sqaure | <b>Sample ID:</b>         | MB/LCS-101204<br>1502372-004AMS/MSD |

### QC Summary Report for SW8260B

| Analyte                      | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD   | RPD Limit |
|------------------------------|-----------|------------|---------|------------|---------|----------|---------------|-------|-----------|
| Chlorobenzene                | 9.04      | 9.14       | 10      | ND         | 90      | 91       | 77-120        | 1.15  | 20        |
| 1,2-Dibromoethane (EDB)      | 9.91      | 9.94       | 10      | ND         | 99      | 99       | 76-135        | 0     | 20        |
| 1,2-Dichloroethane (1,2-DCA) | 9.40      | 9.48       | 10      | ND         | 94      | 95       | 73-139        | 0.858 | 20        |
| 1,1-Dichloroethene           | 9.12      | 9.33       | 10      | ND         | 91      | 93       | 59-140        | 2.31  | 20        |
| Trichloroethene              | 8.97      | 9.14       | 10      | ND         | 90      | 91       | 64-132        | 1.82  | 20        |
| <b>Surrogate Recovery</b>    |           |            |         |            |         |          |               |       |           |
| Dibromofluoromethane         | 24.1      | 24.3       | 25      |            | 96      | 97       | 80-124        | 0.900 | 20        |
| Toluene-d8                   | 23.6      | 23.4       | 25      |            | 94      | 94       | 75-110        | 0     | 20        |
| 4-BFB                        | 2.32      | 2.34       | 2.5     |            | 93      | 94       | 69-114        | 0.875 | 20        |



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1502441

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQuIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**  
 Jeremy Smith  
 AEI Consultants  
 2500 Camino Diablo, Ste.#200  
 Walnut Creek, CA 94597  
 (925) 283-6000    FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com  
 cc/3rd Party:  
 PO:  
 ProjectNo: #261829; Foothill Sqaure

**Bill to:**  
 Sara Guerin  
 AEI Consultants  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597  
 AccountsPayable@AEIConsultants.com

**Requested TAT: 5 days**  
  
**Date Received: 02/12/2015**  
**Date Printed: 02/19/2015**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 1502441-001 | SSD INF   | Air    | 2/12/2015 5:00  | <input type="checkbox"/> | A                                  | A | A |   |   |   |   |   |   |    |    |    |  |
| 1502441-002 | SVE-1 INF | Air    | 2/12/2015 5:10  | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |           |    |                  |   |              |   |  |    |  |
|----|-----------|----|------------------|---|--------------|---|--|----|--|
| 1  | 8010BMS_A | 2  | 8010BMS_A(UG/M3) | 3 | PREDF REPORT | 4 |  | 5  |  |
| 6  |           | 7  |                  | 8 |              | 9 |  | 10 |  |
| 11 |           | 12 |                  |   |              |   |  |    |  |

The following SamplIDs: 001A, 002A contain testgroup.

**Prepared by: Maria Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS  
**Project:** #261829; Foothill Sqaure  
**Comments:**

**QC Level:** LEVEL 2  
**Client Contact:** Jeremy Smith  
**Contact's Email:** jasmith@aeiconsultants.com

**Work Order:** 1502441  
**Date Received:** 2/12/2015

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  Fax   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

| Lab ID       | Client ID | Matrix | Test Name     | Containers<br>/Composites | Bottle & Preservative | De-<br>chlorinated       | Collection Date<br>& Time | TAT    | Sediment<br>Content | Hold                     | SubOut |
|--------------|-----------|--------|---------------|---------------------------|-----------------------|--------------------------|---------------------------|--------|---------------------|--------------------------|--------|
| 1502441-001A | SSD INF   | Air    | HVOCs by GCMS | 1                         | Tedlar                | <input type="checkbox"/> | 2/12/2015 5:00            | 5 days |                     | <input type="checkbox"/> |        |
| 1502441-002A | SVE-1 INF | Air    | HVOCs by GCMS | 1                         | Tedlar                | <input type="checkbox"/> | 2/12/2015 5:10            | 5 days |                     | <input type="checkbox"/> |        |

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).  
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



1502441

**McCAMPBELL ANALYTICAL INC.**

1534 Willow Pass Road  
Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

**CHAIN OF CUSTODY RECORD**

**TURN AROUND TIME**

RUSH  
 24 HR  
 48 HR  
 72 HR  
 5 DAY

EDF Required?  Yes  No

**Report To: Jeremy Smith**      **Bill To: same**      **P.O. #**  
**Company: AEI Consultants**  
 2500 Camino Diablo  
 Walnut Creek, CA 94597      **E-Mail: jasmith@aeiconsultants.com**  
**Tele: (925) 746-6000**      **Fax: (925) 746-6099**  
**Project #: 261829**      **Project Name: Foothill Square**  
**Project Location: 10700 MacArthur Blvd. Oakland, CA**  
**Sampler Signature:** *John Siggy*

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |  |  |  |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|--|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |  |  |  |
| SSD INF                         |          | 2-12-15  | 0500 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| SVE-1 INF                       |          | 2-12-15  | 0510 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |

| Analysis Request                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Other | Comments |  |  |  |  |  |
|---------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|----------|--|--|--|--|--|
| BTEX & TPH as Gas (602/8020 + 8015)/MTBE    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |  |  |
| TPH as Diesel (8015) w/silica Gel Cleanup   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |  |  |
| Total Petroleum Oil & Grease (5520 E&F/B&F) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |  |  |
| Total Petroleum Hydrocarbons (418.1)        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |  |  |
| HVOCs EPA 8260                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |  |  |
| BTEX ONLY (EPA 602 / 8020)                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |  |  |
| EPA 608 / 8080                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |  |  |
| EPA 608 / 8080 PCB's ONLY                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |  |  |
| EPA 624 / 8260                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |  |  |
| EPA 625 / 8270                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |  |  |
| PAH's / PNA's by EPA 625 / 8270 / 8310      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |  |  |
| CAM-17 Metals                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |  |  |
| LUFT 5 Metals                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |  |  |
| Lead (7240/7421/239.2/6010)                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |  |  |
| RCI                                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |  |  |  |

**Relinquished By:** *John Siggy*      **Date:** 2-12-15      **Time:** 0801      **Received By:** *[Signature]*  
**Relinquished By:** \_\_\_\_\_      **Date:** \_\_\_\_\_      **Time:** \_\_\_\_\_      **Received By:** \_\_\_\_\_  
**Relinquished By:** \_\_\_\_\_      **Date:** \_\_\_\_\_      **Time:** \_\_\_\_\_      **Received By:** \_\_\_\_\_

**ICE/4<sup>o</sup>** *NA*      **VOAS** \_\_\_\_\_      **O&G** \_\_\_\_\_      **METALS** \_\_\_\_\_      **OTHER** \_\_\_\_\_  
**GOOD CONDITION** ✓  
**HEAD SPACE ABSENT** \_\_\_\_\_  
**DECHLORINATED IN LAB** \_\_\_\_\_      **PRESERVATION APPROPRIATE CONTAINERS** ✓  
**PERSERVED IN LAB** \_\_\_\_\_



### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **2/12/2015 8:55:18 AM**  
 Project Name: **#261829; Foothill Sqare** LogIn Reviewed by: **Maria Venegas**  
 WorkOrder No: **1502441** Matrix: Air Carrier: Client Drop-In

**Chain of Custody (COC) Information**

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
 Sample/Temp Blank temperature Temp: NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes  No  NA   
 Samples Received on Ice? Yes  No

**UCMR3 Samples:**

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes  No  NA   
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes  No  NA

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1503B25

**Report Created for:** AEI Consultants

2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597

**Project Contact:** Jeremy Smith

**Project P.O.:** #79305

**Project Name:** #261829; Foothill Square

**Project Received:** 03/26/2015

Analytical Report reviewed & approved for release on 04/01/2015 by:

*Question about  
your data?*

[Click here to email  
McC Campbell](#)

Angela Rydelius,  
Laboratory Manager

***The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.***





## Glossary of Terms & Qualifier Definitions

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**WorkOrder:** 1503B25

### Glossary Abbreviation

|              |                                                                                          |
|--------------|------------------------------------------------------------------------------------------|
| 95% Interval | 95% Confident Interval                                                                   |
| DF           | Dilution Factor                                                                          |
| DI WET       | (DISTLC) Waste Extraction Test using DI water                                            |
| DISS         | Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)               |
| DUP          | Duplicate                                                                                |
| EDL          | Estimated Detection Limit                                                                |
| ITEF         | International Toxicity Equivalence Factor                                                |
| LCS          | Laboratory Control Sample                                                                |
| MB           | Method Blank                                                                             |
| MB % Rec     | % Recovery of Surrogate in Method Blank, if applicable                                   |
| MDL          | Method Detection Limit                                                                   |
| ML           | Minimum Level of Quantitation                                                            |
| MS           | Matrix Spike                                                                             |
| MSD          | Matrix Spike Duplicate                                                                   |
| N/A          | Not Applicable                                                                           |
| ND           | Not detected at or above the indicated MDL or RL                                         |
| NR           | Data Not Reported due to matrix interference or insufficient sample amount.              |
| PF           | Prep Factor                                                                              |
| RD           | Relative Difference                                                                      |
| RL           | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD          | Relative Percent Deviation                                                               |
| RRT          | Relative Retention Time                                                                  |
| SPK Val      | Spike Value                                                                              |
| SPKRef Val   | Spike Reference Value                                                                    |
| SPLP         | Synthetic Precipitation Leachate Procedure                                               |
| TCLP         | Toxicity Characteristic Leachate Procedure                                               |
| TEQ          | Toxicity Equivalents                                                                     |
| WET (STLC)   | Waste Extraction Test (Soluble Threshold Limit Concentration)                            |

### Analytical Qualifiers

H samples were analyzed out of holding time



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 3/26/15 15:41  
**Date Prepared:** 3/27/15

**WorkOrder:** 1503B25  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD INF   | 1503B25-001A | Air            | 03/26/2015 11:55 | GC16       | 102882   |

| Analytes                     | Result      | Qualifiers | RL   | DF | Date Analyzed    |
|------------------------------|-------------|------------|------|----|------------------|
| Bromodichloromethane         | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| Bromoform                    | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| Bromomethane                 | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| Carbon Tetrachloride         | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| Chlorobenzene                | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| Chloroethane                 | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| Chloroform                   | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| Chloromethane                | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| Dibromochloromethane         | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| 1,2-Dibromoethane (EDB)      | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| 1,2-Dichlorobenzene          | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| 1,3-Dichlorobenzene          | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| 1,4-Dichlorobenzene          | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| Dichlorodifluoromethane      | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| 1,1-Dichloroethane           | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| 1,2-Dichloroethane (1,2-DCA) | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| 1,1-Dichloroethene           | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| cis-1,2-Dichloroethene       | <b>0.25</b> | H          | 0.25 | 1  | 03/27/2015 22:02 |
| trans-1,2-Dichloroethene     | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| 1,2-Dichloropropane          | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| cis-1,3-Dichloropropene      | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| trans-1,3-Dichloropropene    | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| Freon 113                    | ND          | H          | 5.0  | 1  | 03/27/2015 22:02 |
| Methylene chloride           | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| 1,1,1,2-Tetrachloroethane    | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| 1,1,1,2,2-Tetrachloroethane  | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| Tetrachloroethene            | <b>0.79</b> | H          | 0.25 | 1  | 03/27/2015 22:02 |
| 1,1,1-Trichloroethane        | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| 1,1,2-Trichloroethane        | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| Trichloroethene              | <b>0.30</b> | H          | 0.25 | 1  | 03/27/2015 22:02 |
| Trichlorofluoromethane       | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |
| Vinyl Chloride               | ND          | H          | 0.25 | 1  | 03/27/2015 22:02 |

(Cont.)



# Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 3/26/15 15:41  
**Date Prepared:** 3/27/15

**WorkOrder:** 1503B25  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD INF   | 1503B25-001A | Air            | 03/26/2015 11:55 | GC16       | 102882   |

| Analytes             | Result         | Qualifiers        | RL            | DF | Date Analyzed    |
|----------------------|----------------|-------------------|---------------|----|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> |    |                  |
| Dibromofluoromethane | 101            | H                 | 70-130        |    | 03/27/2015 22:02 |
| Toluene-d8           | 95             | H                 | 70-130        |    | 03/27/2015 22:02 |
| 4-BFB                | 104            | H                 | 70-130        |    | 03/27/2015 22:02 |

Analyst(s): KBO



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 3/26/15 15:41  
**Date Prepared:** 3/27/15

**WorkOrder:** 1503B25  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID         |
|------------------------------|--------------|----------------|------------------|------------|------------------|
| SSD INF                      | 1503B25-001A | Air            | 03/26/2015 11:55 | GC16       | 102882           |
| Analytes                     | Result       | Qualifiers     | RL               | DF         | Date Analyzed    |
| Bromodichloromethane         | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| Bromoform                    | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| Bromomethane                 | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| Carbon Tetrachloride         | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| Chlorobenzene                | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| Chloroethane                 | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| Chloroform                   | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| Chloromethane                | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| Dibromochloromethane         | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| 1,2-Dibromoethane (EDB)      | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| 1,2-Dichlorobenzene          | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| 1,3-Dichlorobenzene          | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| 1,4-Dichlorobenzene          | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| Dichlorodifluoromethane      | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| 1,1-Dichloroethane           | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| 1,2-Dichloroethane (1,2-DCA) | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| 1,1-Dichloroethene           | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| cis-1,2-Dichloroethene       | <b>250</b>   | H              | 250              | 1          | 03/27/2015 22:02 |
| trans-1,2-Dichloroethene     | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| 1,2-Dichloropropane          | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| cis-1,3-Dichloropropene      | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| trans-1,3-Dichloropropene    | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| Freon 113                    | ND           | H              | 5000             | 1          | 03/27/2015 22:02 |
| Methylene chloride           | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| 1,1,1,2-Tetrachloroethane    | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| 1,1,2,2-Tetrachloroethane    | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| Tetrachloroethene            | <b>790</b>   | H              | 250              | 1          | 03/27/2015 22:02 |
| 1,1,1-Trichloroethane        | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| 1,1,2-Trichloroethane        | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| Trichloroethene              | <b>300</b>   | H              | 250              | 1          | 03/27/2015 22:02 |
| Trichlorofluoromethane       | ND           | H              | 250              | 1          | 03/27/2015 22:02 |
| Vinyl Chloride               | ND           | H              | 250              | 1          | 03/27/2015 22:02 |

(Cont.)



# Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 3/26/15 15:41  
**Date Prepared:** 3/27/15

**WorkOrder:** 1503B25  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD INF   | 1503B25-001A | Air            | 03/26/2015 11:55 | GC16       | 102882   |

| Analytes             | Result         | Qualifiers        | RL            | DF | Date Analyzed    |
|----------------------|----------------|-------------------|---------------|----|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> |    |                  |
| Dibromofluoromethane | 101            | H                 | 70-130        |    | 03/27/2015 22:02 |
| Toluene-d8           | 95             | H                 | 70-130        |    | 03/27/2015 22:02 |
| 4-BFB                | 104            | H                 | 70-130        |    | 03/27/2015 22:02 |

Analyst(s): KBO





# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 3/27/15  
**Date Analyzed:** 3/27/15  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1503B25  
**BatchID:** 102882  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-102882  
 1503916-001AMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 8.49       | 0.50 | 10      | -          | 85       | 43-157     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 8.67       | 0.50 | 10      | -          | 87       | 44-155     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 10.0       | 0.50 | 10      | -          | 101      | 66-125     |
| 1,1-Dichloroethene            | ND        | 9.29       | 0.50 | 10      | -          | 93       | 47-149     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 3/27/15  
**Date Analyzed:** 3/27/15  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1503B25  
**BatchID:** 102882  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-102882  
 1503916-001AMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethanol                       | ND        | -          | 50   | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 8.87       | 0.50 | 10      | -          | 89       | 43-157     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |

### Surrogate Recovery

|                      |      |      |  |     |     |     |        |
|----------------------|------|------|--|-----|-----|-----|--------|
| Dibromofluoromethane | 25.0 | 25.1 |  | 25  | 100 | 100 | 65-135 |
| Toluene-d8           | 24.0 | 23.7 |  | 25  | 96  | 95  | 64-112 |
| 4-BFB                | 2.67 | 2.49 |  | 2.5 | 107 | 100 | 59-139 |

(Cont.)



## Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 3/27/15  
**Date Analyzed:** 3/27/15  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1503B25  
**BatchID:** 102882  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-102882  
 1503916-001AMS/MSD

### QC Summary Report for SW8260B

| Analyte                      | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD   | RPD Limit |
|------------------------------|-----------|------------|---------|------------|---------|----------|---------------|-------|-----------|
| Chlorobenzene                | 8.32      | 8.69       | 10      | ND         | 83      | 87       | 77-120        | 4.42  | 20        |
| 1,2-Dibromoethane (EDB)      | 8.83      | 8.79       | 10      | ND         | 88      | 88       | 76-135        | 0     | 20        |
| 1,2-Dichloroethane (1,2-DCA) | 10.3      | 10.5       | 10      | ND         | 103     | 105      | 73-139        | 1.95  | 20        |
| 1,1-Dichloroethene           | 8.95      | 9.65       | 10      | ND         | 90      | 97       | 59-140        | 7.55  | 20        |
| Trichloroethene              | 8.61      | 8.97       | 10      | ND         | 85      | 89       | 64-132        | 4.16  | 20        |
| <b>Surrogate Recovery</b>    |           |            |         |            |         |          |               |       |           |
| Dibromofluoromethane         | 25.3      | 25.4       | 25      |            | 101     | 102      | 80-124        | 0.518 | 20        |
| Toluene-d8                   | 23.4      | 23.6       | 25      |            | 94      | 94       | 75-110        | 0     | 20        |
| 4-BFB                        | 2.45      | 2.30       | 2.5     |            | 98      | 92       | 69-114        | 6.43  | 20        |



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1503B25

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQuIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**  
 Jeremy Smith  
 AEI Consultants  
 2500 Camino Diablo, Ste.#200  
 Walnut Creek, CA 94597  
 (925) 283-6000    FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com  
 cc/3rd Party:  
 PO: #79305  
 ProjectNo: #261829; Foothill Square

**Bill to:**  
 Accounts Payable  
 AEI Consultants  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597  
 AccountsPayable@AEIConsultants.com

**Requested TAT: 5 days**  
  
**Date Received: 03/26/2015**  
**Date Printed: 04/01/2015**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 1503B25-001 | SSD INF   | Air    | 3/26/2015 11:55 | <input type="checkbox"/> | A                                  | A | A |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |           |    |                  |   |              |   |  |    |  |
|----|-----------|----|------------------|---|--------------|---|--|----|--|
| 1  | 8010BMS_A | 2  | 8010BMS_A(UG/M3) | 3 | PREDF REPORT | 4 |  | 5  |  |
| 6  |           | 7  |                  | 8 |              | 9 |  | 10 |  |
| 11 |           | 12 |                  |   |              |   |  |    |  |

The following SampID: 001A contains testgroup.

**Prepared by: Maria Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS  
**Project:** #261829; Foothill Square  
**Comments:**

**QC Level:** LEVEL 2  
**Client Contact:** Jeremy Smith  
**Contact's Email:** jasmith@aeiconsultants.com

**Work Order:** 1503B25  
**Date Received:** 3/26/2015

WaterTrax     WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

| Lab ID       | Client ID | Matrix | Test Name     | Containers /Composites | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT    | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|---------------|------------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1503B25-001A | SSD INF   | Air    | HVOCs by GCMS | 1                      | Tedlar                | <input type="checkbox"/> | 3/26/2015 11:55        | 5 days |                  | <input type="checkbox"/> |        |

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1503B25

### McCAMPBELL ANALYTICAL INC.

1534 Willow Pass Road  
Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

### CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH     24 HR     48 HR     72 HR     5 DAY

EDF Required?     Yes     No

Report To: Jeremy Smith                      Bill To: same                      P.O. # 79305

Company: AEI Consultants  
2500 Camino Diablo  
Walnut Creek, CA 94597                      E-Mail: jasmith@aeiconsultants.com

Tele: (925) 746-6000                              Fax: (925) 746-6099

Project #: 261829                              Project Name: Foothill Square

Project Location: 10700 MacArthur Blvd. Oakland, CA

Sampler Signature: *[Signature]*

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |              |        |       | METHOD PRESERVED |     |                  |       |  |  |  |  |  |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|--------------|--------|-------|------------------|-----|------------------|-------|--|--|--|--|--|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air          | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |  |  |  |  |  |
| SSD INF                         |          | 3-26-15  | 1155 | 1            | Tb              |        |      | X            |        |       |                  |     |                  |       |  |  |  |  |  |  |  |
| <del>SVE INF</del>              |          |          |      | <del>1</del> | <del>Tb</del>   |        |      | <del>X</del> |        |       |                  |     |                  |       |  |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |              |        |       |                  |     |                  |       |  |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |              |        |       |                  |     |                  |       |  |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |              |        |       |                  |     |                  |       |  |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |              |        |       |                  |     |                  |       |  |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |              |        |       |                  |     |                  |       |  |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |              |        |       |                  |     |                  |       |  |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |              |        |       |                  |     |                  |       |  |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |              |        |       |                  |     |                  |       |  |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |              |        |       |                  |     |                  |       |  |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |              |        |       |                  |     |                  |       |  |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |              |        |       |                  |     |                  |       |  |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |              |        |       |                  |     |                  |       |  |  |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |              |        |       |                  |     |                  |       |  |  |  |  |  |  |  |

| Analysis Request                            |  |  |  |  |  |  |  |  |  |  |  | Other | Comments |  |  |
|---------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|-------|----------|--|--|
| BTEX & TPH as Gas (602/8020 + 8015)/MTBE    |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |
| TPH as Diesel (8015) w/silica Gel Cleanup   |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |
| Total Petroleum Oil & Grease (5520 E&F/B&F) |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |
| Total Petroleum Hydrocarbons (418.1)        |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |
| HVOCs EPA 8260                              |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |
| BTEX ONLY (EPA 602 / 8020)                  |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |
| EPA 608 / 8080                              |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |
| EPA 608 / 8080 PCB's ONLY                   |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |
| EPA 624 / 8260                              |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |
| EPA 625 / 8270                              |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |
| PAH's / PNA's by EPA 625 / 8270 / 8310      |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |
| CAM-17 Metals                               |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |
| LUFT 5 Metals                               |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |
| Lead (7240/7421/239.2/6010)                 |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |
| RCI                                         |  |  |  |  |  |  |  |  |  |  |  |       |          |  |  |

Relinquished By: *[Signature]*    Date: 3-26-15    Time: 1530    Received By: *[Signature]*

Relinquished By:    Date:    Time:    Received By:

Relinquished By:    Date:    Time:    Received By:

ICE/t° *NA*    VOAS    O&G    METALS    OTHER

GOOD CONDITION \_\_\_\_\_    PRESERVATION \_\_\_\_\_

HEAD SPACE ABSENT \_\_\_\_\_    APPROPRIATE CONTAINERS \_\_\_\_\_

DECLORINATED IN LAB \_\_\_\_\_    PERSERVED IN LAB \_\_\_\_\_



### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **3/26/2015 3:41:17 PM**  
 Project Name: **#261829; Foothill Square** LogIn Reviewed by: **Maria Venegas**  
 WorkOrder No: **1503B25** Matrix: Air Carrier: Client Drop-In

**Chain of Custody (COC) Information**

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
 Sample/Temp Blank temperature Temp: NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes  No  NA   
 Samples Received on Ice? Yes  No

**UCMR3 Samples:**

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes  No  NA   
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes  No  NA

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1504782

**Report Created for:** AEI Consultants

2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597

**Project Contact:** Jeremy Smith

**Project P.O.:**

**Project Name:** #261829; Foothill Square

**Project Received:** 04/20/2015

Analytical Report reviewed & approved for release on 04/23/2015 by:

*Question about  
your data?*

[Click here to email  
McC Campbell](#)

Angela Rydelius,  
Laboratory Manager

***The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.***







## Glossary of Terms & Qualifier Definitions

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**WorkOrder:** 1504782

### Glossary Abbreviation

|              |                                                                                          |
|--------------|------------------------------------------------------------------------------------------|
| 95% Interval | 95% Confident Interval                                                                   |
| DF           | Dilution Factor                                                                          |
| DI WET       | (DISTLC) Waste Extraction Test using DI water                                            |
| DISS         | Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)               |
| DUP          | Duplicate                                                                                |
| EDL          | Estimated Detection Limit                                                                |
| ITEF         | International Toxicity Equivalence Factor                                                |
| LCS          | Laboratory Control Sample                                                                |
| MB           | Method Blank                                                                             |
| MB % Rec     | % Recovery of Surrogate in Method Blank, if applicable                                   |
| MDL          | Method Detection Limit                                                                   |
| ML           | Minimum Level of Quantitation                                                            |
| MS           | Matrix Spike                                                                             |
| MSD          | Matrix Spike Duplicate                                                                   |
| N/A          | Not Applicable                                                                           |
| ND           | Not detected at or above the indicated MDL or RL                                         |
| NR           | Data Not Reported due to matrix interference or insufficient sample amount.              |
| PF           | Prep Factor                                                                              |
| RD           | Relative Difference                                                                      |
| RL           | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD          | Relative Percent Deviation                                                               |
| RRT          | Relative Retention Time                                                                  |
| SPK Val      | Spike Value                                                                              |
| SPKRef Val   | Spike Reference Value                                                                    |
| SPLP         | Synthetic Precipitation Leachate Procedure                                               |
| TCLP         | Toxicity Characteristic Leachate Procedure                                               |
| TEQ          | Toxicity Equivalents                                                                     |
| WET (STLC)   | Waste Extraction Test (Soluble Threshold Limit Concentration)                            |

### Analytical Qualifiers

H samples were analyzed out of holding time



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 4/20/15 12:38  
**Date Prepared:** 4/21/15

**WorkOrder:** 1504782  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID         |
|------------------------------|--------------|----------------|------------------|------------|------------------|
| SSD INF                      | 1504782-001A | Air            | 04/20/2015 06:45 | GC18       | 103889           |
| Analytes                     | Result       | Qualifiers     | RL               | DF         | Date Analyzed    |
| Bromodichloromethane         | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| Bromoform                    | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| Bromomethane                 | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| Carbon Tetrachloride         | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| Chlorobenzene                | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| Chloroethane                 | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| Chloroform                   | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| Chloromethane                | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| Dibromochloromethane         | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| 1,2-Dibromoethane (EDB)      | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| 1,2-Dichlorobenzene          | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| 1,3-Dichlorobenzene          | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| 1,4-Dichlorobenzene          | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| Dichlorodifluoromethane      | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| 1,1-Dichloroethane           | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| 1,2-Dichloroethane (1,2-DCA) | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| 1,1-Dichloroethene           | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| cis-1,2-Dichloroethene       | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| trans-1,2-Dichloroethene     | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| 1,2-Dichloropropane          | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| cis-1,3-Dichloropropene      | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| trans-1,3-Dichloropropene    | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| Freon 113                    | ND           | H              | 20               | 4          | 04/21/2015 20:46 |
| Methylene chloride           | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| 1,1,1,2-Tetrachloroethane    | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| 1,1,1,2,2-Tetrachloroethane  | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| Tetrachloroethene            | <b>22</b>    | H              | 1.0              | 4          | 04/21/2015 20:46 |
| 1,1,1-Trichloroethane        | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| 1,1,2-Trichloroethane        | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| Trichloroethene              | <b>1.0</b>   | H              | 1.0              | 4          | 04/21/2015 20:46 |
| Trichlorofluoromethane       | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |
| Vinyl Chloride               | ND           | H              | 1.0              | 4          | 04/21/2015 20:46 |

(Cont.)



## Analytical Report

**Client:** AEI Consultants **WorkOrder:** 1504782  
**Project:** #261829; Foothill Square **Extraction Method:** SW5030B  
**Date Received:** 4/20/15 12:38 **Analytical Method:** SW8260B  
**Date Prepared:** 4/21/15 **Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD INF   | 1504782-001A | Air            | 04/20/2015 06:45 | GC18       | 103889   |

| Analytes             | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|----------------------|---------|------------|--------|----|------------------|
| Surrogates           | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane | 105     | H          | 70-130 |    | 04/21/2015 20:46 |
| Toluene-d8           | 93      | H          | 70-130 |    | 04/21/2015 20:46 |
| 4-BFB                | 100     | H          | 70-130 |    | 04/21/2015 20:46 |

Analyst(s): KBO



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 4/20/15 12:38  
**Date Prepared:** 4/21/15

**WorkOrder:** 1504782  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-1 INF | 1504782-002A | Air            | 04/20/2015 06:34 | GC18       | 103889   |

| Analytes                     | Result    | Qualifiers | RL  | DF  | Date Analyzed    |
|------------------------------|-----------|------------|-----|-----|------------------|
| Bromodichloromethane         | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| Bromoform                    | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| Bromomethane                 | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| Carbon Tetrachloride         | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| Chlorobenzene                | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| Chloroethane                 | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| Chloroform                   | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| Chloromethane                | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| Dibromochloromethane         | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| 1,2-Dibromoethane (EDB)      | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| 1,2-Dichlorobenzene          | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| 1,3-Dichlorobenzene          | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| 1,4-Dichlorobenzene          | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| Dichlorodifluoromethane      | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| 1,1-Dichloroethane           | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| 1,2-Dichloroethane (1,2-DCA) | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| 1,1-Dichloroethene           | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| cis-1,2-Dichloroethene       | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| trans-1,2-Dichloroethene     | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| 1,2-Dichloropropane          | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| cis-1,3-Dichloropropene      | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| trans-1,3-Dichloropropene    | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| Freon 113                    | ND        | H          | 33  | 6.7 | 04/21/2015 21:25 |
| Methylene chloride           | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| 1,1,1,2-Tetrachloroethane    | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| 1,1,2,2-Tetrachloroethane    | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| Tetrachloroethene            | <b>39</b> | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| 1,1,1-Trichloroethane        | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| 1,1,2-Trichloroethane        | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| Trichloroethene              | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| Trichlorofluoromethane       | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |
| Vinyl Chloride               | ND        | H          | 1.7 | 6.7 | 04/21/2015 21:25 |

(Cont.)



# Analytical Report

Client: AEI Consultants

WorkOrder: 1504782

Project: #261829; Foothill Square

Extraction Method: SW5030B

Date Received: 4/20/15 12:38

Analytical Method: SW8260B

Date Prepared: 4/21/15

Unit: µg/L

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-1 INF | 1504782-002A | Air            | 04/20/2015 06:34 | GC18       | 103889   |

| Analytes             | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|----------------------|---------|------------|--------|----|------------------|
| Surrogates           | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane | 107     | H          | 70-130 |    | 04/21/2015 21:25 |
| Toluene-d8           | 92      | H          | 70-130 |    | 04/21/2015 21:25 |
| 4-BFB                | 101     | H          | 70-130 |    | 04/21/2015 21:25 |

Analyst(s): KBO



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 4/20/15 12:38  
**Date Prepared:** 4/21/15

**WorkOrder:** 1504782  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID                    | Lab ID        | Matrix/ExtType | Date Collected   | Instrument | Batch ID         |
|------------------------------|---------------|----------------|------------------|------------|------------------|
| SSD INF                      | 1504782-001A  | Air            | 04/20/2015 06:45 | GC18       | 103889           |
| Analytes                     | Result        | Qualifiers     | RL               | DF         | Date Analyzed    |
| Bromodichloromethane         | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| Bromoform                    | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| Bromomethane                 | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| Carbon Tetrachloride         | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| Chlorobenzene                | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| Chloroethane                 | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| Chloroform                   | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| Chloromethane                | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| Dibromochloromethane         | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| 1,2-Dibromoethane (EDB)      | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| 1,2-Dichlorobenzene          | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| 1,3-Dichlorobenzene          | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| 1,4-Dichlorobenzene          | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| Dichlorodifluoromethane      | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| 1,1-Dichloroethane           | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| 1,2-Dichloroethane (1,2-DCA) | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| 1,1-Dichloroethene           | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| cis-1,2-Dichloroethene       | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| trans-1,2-Dichloroethene     | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| 1,2-Dichloropropane          | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| cis-1,3-Dichloropropene      | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| trans-1,3-Dichloropropene    | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| Freon 113                    | ND            | H              | 20,000           | 4          | 04/21/2015 20:46 |
| Methylene chloride           | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| 1,1,1,2-Tetrachloroethane    | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| 1,1,1,2,2-Tetrachloroethane  | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| Tetrachloroethene            | <b>22,000</b> | H              | 1000             | 4          | 04/21/2015 20:46 |
| 1,1,1-Trichloroethane        | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| 1,1,2-Trichloroethane        | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| Trichloroethene              | <b>1000</b>   | H              | 1000             | 4          | 04/21/2015 20:46 |
| Trichlorofluoromethane       | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |
| Vinyl Chloride               | ND            | H              | 1000             | 4          | 04/21/2015 20:46 |

(Cont.)



## Analytical Report

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Client:</b> AEI Consultants           | <b>WorkOrder:</b> 1504782         |
| <b>Project:</b> #261829; Foothill Square | <b>Extraction Method:</b> SW5030B |
| <b>Date Received:</b> 4/20/15 12:38      | <b>Analytical Method:</b> SW8260B |
| <b>Date Prepared:</b> 4/21/15            | <b>Unit:</b> µg/m <sup>3</sup>    |

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD INF   | 1504782-001A | Air            | 04/20/2015 06:45 | GC18       | 103889   |

| Analytes             | Result         | Qualifiers        | RL            | DF | Date Analyzed    |
|----------------------|----------------|-------------------|---------------|----|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> |    |                  |
| Dibromofluoromethane | 105            | H                 | 70-130        |    | 04/21/2015 20:46 |
| Toluene-d8           | 93             | H                 | 70-130        |    | 04/21/2015 20:46 |
| 4-BFB                | 100            | H                 | 70-130        |    | 04/21/2015 20:46 |

**Analyst(s):** KBO



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 4/20/15 12:38  
**Date Prepared:** 4/21/15

**WorkOrder:** 1504782  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-1 INF | 1504782-002A | Air            | 04/20/2015 06:34 | GC18       | 103889   |

| Analytes                     | Result        | Qualifiers | RL     | DF  | Date Analyzed    |
|------------------------------|---------------|------------|--------|-----|------------------|
| Bromodichloromethane         | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| Bromoform                    | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| Bromomethane                 | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| Carbon Tetrachloride         | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| Chlorobenzene                | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| Chloroethane                 | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| Chloroform                   | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| Chloromethane                | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| Dibromochloromethane         | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| 1,2-Dibromoethane (EDB)      | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| 1,2-Dichlorobenzene          | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| 1,3-Dichlorobenzene          | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| 1,4-Dichlorobenzene          | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| Dichlorodifluoromethane      | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| 1,1-Dichloroethane           | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| 1,2-Dichloroethane (1,2-DCA) | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| 1,1-Dichloroethene           | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| cis-1,2-Dichloroethene       | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| trans-1,2-Dichloroethene     | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| 1,2-Dichloropropane          | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| cis-1,3-Dichloropropene      | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| trans-1,3-Dichloropropene    | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| Freon 113                    | ND            | H          | 33,000 | 6.7 | 04/21/2015 21:25 |
| Methylene chloride           | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| 1,1,1,2-Tetrachloroethane    | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| 1,1,1,2-Tetrachloroethane    | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| Tetrachloroethene            | <b>39,000</b> | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| 1,1,1-Trichloroethane        | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| 1,1,2-Trichloroethane        | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| Trichloroethene              | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| Trichlorofluoromethane       | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |
| Vinyl Chloride               | ND            | H          | 1700   | 6.7 | 04/21/2015 21:25 |

(Cont.)





## Analytical Report

**Client:** AEI Consultants **WorkOrder:** 1504782  
**Project:** #261829; Foothill Square **Extraction Method:** SW5030B  
**Date Received:** 4/20/15 12:38 **Analytical Method:** SW8260B  
**Date Prepared:** 4/21/15 **Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-1 INF | 1504782-002A | Air            | 04/20/2015 06:34 | GC18       | 103889   |

| Analytes             | Result  | Qualifiers | RL     | DF | Date Analyzed    |
|----------------------|---------|------------|--------|----|------------------|
| Surrogates           | REC (%) | Qualifiers | Limits |    |                  |
| Dibromofluoromethane | 107     | H          | 70-130 |    | 04/21/2015 21:25 |
| Toluene-d8           | 92      | H          | 70-130 |    | 04/21/2015 21:25 |
| 4-BFB                | 101     | H          | 70-130 |    | 04/21/2015 21:25 |

**Analyst(s):** KBO



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 4/20/15  
**Date Analyzed:** 4/20/15  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1504782  
**BatchID:** 103889  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-103889  
 1504633-001CMS/MSD

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 9.59       | 0.50 | 10      | -          | 96       | 43-157     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 9.37       | 0.50 | 10      | -          | 94       | 44-155     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 9.80       | 0.50 | 10      | -          | 98       | 66-125     |
| 1,1-Dichloroethene            | ND        | 10.2       | 0.50 | 10      | -          | 102      | 47-149     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



## Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 4/20/15  
**Date Analyzed:** 4/20/15  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1504782  
**BatchID:** 103889  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-103889  
 1504633-001CMS/MSD

### QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 9.49       | 0.50 | 10      | -          | 95       | 43-157     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |

#### Surrogate Recovery

|                      |      |      |  |     |    |    |        |
|----------------------|------|------|--|-----|----|----|--------|
| Dibromofluoromethane | 24.3 | 24.8 |  | 25  | 97 | 99 | 70-130 |
| Toluene-d8           | 23.2 | 23.0 |  | 25  | 93 | 92 | 70-130 |
| 4-BFB                | 2.33 | 2.18 |  | 2.5 | 93 | 87 | 70-130 |

(Cont.)



## Quality Control Report

|                                          |                                                       |
|------------------------------------------|-------------------------------------------------------|
| <b>Client:</b> AEI Consultants           | <b>WorkOrder:</b> 1504782                             |
| <b>Date Prepared:</b> 4/20/15            | <b>BatchID:</b> 103889                                |
| <b>Date Analyzed:</b> 4/20/15            | <b>Extraction Method:</b> SW5030B                     |
| <b>Instrument:</b> GC16                  | <b>Analytical Method:</b> SW8260B                     |
| <b>Matrix:</b> Water                     | <b>Unit:</b> µg/L                                     |
| <b>Project:</b> #261829; Foothill Square | <b>Sample ID:</b> MB/LCS-103889<br>1504633-001CMS/MSD |

### QC Summary Report for SW8260B

| Analyte                      | MS<br>Result | MSD<br>Result | SPK<br>Val | SPKRef<br>Val | MS<br>%REC | MSD<br>%REC | MS/MSD<br>Limits | RPD   | RPD<br>Limit |
|------------------------------|--------------|---------------|------------|---------------|------------|-------------|------------------|-------|--------------|
| Chlorobenzene                | 10.3         | 9.71          | 10         | ND            | 103        | 97          | 77-120           | 5.60  | 20           |
| 1,2-Dibromoethane (EDB)      | 10.8         | 10.4          | 10         | ND            | 108        | 104         | 76-135           | 3.77  | 20           |
| 1,2-Dichloroethane (1,2-DCA) | 11.3         | 11.0          | 10         | ND            | 113        | 110         | 73-139           | 2.33  | 20           |
| 1,1-Dichloroethene           | 11.0         | 10.4          | 10         | ND            | 110        | 104         | 59-140           | 5.37  | 20           |
| Trichloroethene              | 10.3         | 9.83          | 10         | ND            | 103        | 98          | 64-132           | 4.94  | 20           |
| <b>Surrogate Recovery</b>    |              |               |            |               |            |             |                  |       |              |
| Dibromofluoromethane         | 25.1         | 25.3          | 25         |               | 100        | 101         | 70-130           | 0.858 | 20           |
| Toluene-d8                   | 22.2         | 21.9          | 25         |               | 89         | 88          | 70-130           | 1.36  | 20           |
| 4-BFB                        | 2.10         | 2.12          | 2.5        |               | 84         | 85          | 70-130           | 0.868 | 20           |



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1504782

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQuIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**

Jeremy Smith  
AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597  
(925) 283-6000    FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com  
cc/3rd Party:  
PO:  
ProjectNo: #261829; Foothill Square

**Bill to:**

Accounts Payable  
AEI Consultants  
2500 Camino Diablo, Ste. #200  
Walnut Creek, CA 94597  
AccountsPayable@AEIConsultants.com

**Requested TAT:**

**5 days**

**Date Received: 04/20/2015**

**Date Printed: 04/24/2015**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 1504782-001 | SSD INF   | Air    | 4/20/2015 6:45  | <input type="checkbox"/> | A                                  | A | A |   |   |   |   |   |   |    |    |    |  |
| 1504782-002 | SVE-1 INF | Air    | 4/20/2015 6:34  | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |           |    |                  |   |              |   |  |    |  |
|----|-----------|----|------------------|---|--------------|---|--|----|--|
| 1  | 8010BMS_A | 2  | 8010BMS_A(UG/M3) | 3 | PREDF REPORT | 4 |  | 5  |  |
| 6  |           | 7  |                  | 8 |              | 9 |  | 10 |  |
| 11 |           | 12 |                  |   |              |   |  |    |  |

The following SamplIDs: 001A, 002A contain testgroup.

**Prepared by: Maria Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS  
**Project:** #261829; Foothill Square  
**Comments:**

**QC Level:** LEVEL 2  
**Client Contact:** Jeremy Smith  
**Contact's Email:** jasmith@aeiconsultants.com

**Work Order:** 1504782  
**Date Received:** 4/20/2015

WaterTrax     WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

| Lab ID       | Client ID | Matrix | Test Name     | Containers /Composites | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT    | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|---------------|------------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1504782-001A | SSD INF   | Air    | HVOCs by GCMS | 1                      | Tedlar                | <input type="checkbox"/> | 4/20/2015 6:45         | 5 days |                  | <input type="checkbox"/> |        |
| 1504782-002A | SVE-1 INF | Air    | HVOCs by GCMS | 1                      | Tedlar                | <input type="checkbox"/> | 4/20/2015 6:34         | 5 days |                  | <input type="checkbox"/> |        |

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1504782

**McCAMPBELL ANALYTICAL INC.**  
 1534 Willow Pass Road  
 Pittsburg, CA 94565  
 Telephone: (925) 252-9262 Fax: (925) 252-9269

**CHAIN OF CUSTODY RECORD**  
 TURN AROUND TIME  RUSH  24 HR  48 HR  72 HR  5 DAY  
 EDF Required?  Yes  No

Report To: Jeremy Smith Bill To: same P.O. #  
 Company: AEI Consultants  
 2500 Camino Diablo  
 Walnut Creek, CA 94597 E-Mail: jasmith@aeiconsultants.com  
 Tele: (925) 746-6000 Fax: (925) 746-6099  
 Project #: 261829 Project Name: Foothill Square  
 Project Location: 10700 MacArthur Blvd. Oakland, CA  
 Sampler Signature: *John Sign*

| Analysis Request                            |  |  |  |  |  |  |  |  |  | Other | Comments |  |
|---------------------------------------------|--|--|--|--|--|--|--|--|--|-------|----------|--|
| BTEX & TPH as Gas (602/8020 + 8015)/MTBE    |  |  |  |  |  |  |  |  |  |       |          |  |
| TPH as Diesel (8015) w/silica Gel Cleanup   |  |  |  |  |  |  |  |  |  |       |          |  |
| Total Petroleum Oil & Grease (5520 E&F/B&F) |  |  |  |  |  |  |  |  |  |       |          |  |
| Total Petroleum Hydrocarbons (418.1)        |  |  |  |  |  |  |  |  |  |       |          |  |
| HVOCs EPA 8260                              |  |  |  |  |  |  |  |  |  |       |          |  |
| BTEX ONLY (EPA 602 / 8020)                  |  |  |  |  |  |  |  |  |  |       |          |  |
| EPA 608 / 8080                              |  |  |  |  |  |  |  |  |  |       |          |  |
| EPA 608 / 8080 PCB's ONLY                   |  |  |  |  |  |  |  |  |  |       |          |  |
| EPA 624 / 8260                              |  |  |  |  |  |  |  |  |  |       |          |  |
| EPA 625 / 8270                              |  |  |  |  |  |  |  |  |  |       |          |  |
| PAH's / PNA's by EPA 625 / 8270 / 8310      |  |  |  |  |  |  |  |  |  |       |          |  |
| CAM-17 Metals                               |  |  |  |  |  |  |  |  |  |       |          |  |
| LUFT 5 Metals                               |  |  |  |  |  |  |  |  |  |       |          |  |
| Lead (7240/7421/239.2/6010)                 |  |  |  |  |  |  |  |  |  |       |          |  |
| RCI                                         |  |  |  |  |  |  |  |  |  |       |          |  |

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |  |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |  |
| SSD INF                         |          | 4-20-15  | 0615 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |
| SVE-1 INF                       |          | 4-20-15  | 0634 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |

Relinquished By: *John Sign* Date: 4-20-15 Time: Received By:  
 Relinquished By: Date: 0817 Time: Received By: *Mona 76*  
 Relinquished By: Date: Time: Received By:

ICE/t° *NA* VOAS O&G METALS OTHER  
 GOOD CONDITION \_\_\_\_\_ PRESERVATION APPROPRIATE  
 HEAD SPACE ABSENT \_\_\_\_\_ CONTAINERS \_\_\_\_\_  
 DECHLORINATED IN LAB \_\_\_\_\_ PRESERVED IN LAB \_\_\_\_\_



### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **4/20/2015 12:38:31 PM**  
 Project Name: **#261829; Foothill Square** LogIn Reviewed by: **Maria Venegas**  
 WorkOrder No: **1504782** Matrix: Air Carrier: Client Drop-In

**Chain of Custody (COC) Information**

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
 Sample/Temp Blank temperature Temp: NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes  No  NA   
 Samples Received on Ice? Yes  No

**UCMR3 Samples:**

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes  No  NA   
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes  No  NA

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:





# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1505261

**Report Created for:** AEI Consultants

2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597

**Project Contact:** Jeremy Smith

**Project P.O.:** #82769

**Project Name:** #261829; Foothill Square

**Project Received:** 05/07/2015

Analytical Report reviewed & approved for release on 05/13/2015 by:

Angela Rydelius,  
Laboratory Manager

*The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.*





## Glossary of Terms & Qualifier Definitions

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**WorkOrder:** 1505261

### Glossary Abbreviation

|              |                                                                                          |
|--------------|------------------------------------------------------------------------------------------|
| 95% Interval | 95% Confident Interval                                                                   |
| DF           | Dilution Factor                                                                          |
| DI WET       | (DISTLC) Waste Extraction Test using DI water                                            |
| DISS         | Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)               |
| DUP          | Duplicate                                                                                |
| EDL          | Estimated Detection Limit                                                                |
| ITEF         | International Toxicity Equivalence Factor                                                |
| LCS          | Laboratory Control Sample                                                                |
| MB           | Method Blank                                                                             |
| MB % Rec     | % Recovery of Surrogate in Method Blank, if applicable                                   |
| MDL          | Method Detection Limit                                                                   |
| ML           | Minimum Level of Quantitation                                                            |
| MS           | Matrix Spike                                                                             |
| MSD          | Matrix Spike Duplicate                                                                   |
| N/A          | Not Applicable                                                                           |
| ND           | Not detected at or above the indicated MDL or RL                                         |
| NR           | Data Not Reported due to matrix interference or insufficient sample amount.              |
| PF           | Prep Factor                                                                              |
| RD           | Relative Difference                                                                      |
| RL           | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD          | Relative Percent Deviation                                                               |
| RRT          | Relative Retention Time                                                                  |
| SPK Val      | Spike Value                                                                              |
| SPKRef Val   | Spike Reference Value                                                                    |
| SPLP         | Synthetic Precipitation Leachate Procedure                                               |
| TCLP         | Toxicity Characteristic Leachate Procedure                                               |
| TEQ          | Toxicity Equivalents                                                                     |
| WET (STLC)   | Waste Extraction Test (Soluble Threshold Limit Concentration)                            |

### Analytical Qualifiers

H samples were analyzed out of holding time



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/7/15 17:59  
**Date Prepared:** 5/7/15-5/8/15

**WorkOrder:** 1505261  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD INF   | 1505261-001A | Air            | 05/07/2015 08:30 | GC28       | 104617   |

| Analytes                     | Result | Qualifiers | RL   | DF | Date Analyzed    |
|------------------------------|--------|------------|------|----|------------------|
| Bromobenzene                 | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| Bromochloromethane           | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| Bromodichloromethane         | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| Bromoform                    | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| Bromomethane                 | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| Carbon Tetrachloride         | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| Chlorobenzene                | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| Chloroethane                 | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| Chloroform                   | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| Chloromethane                | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| 2-Chlorotoluene              | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| 4-Chlorotoluene              | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| Dibromochloromethane         | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| 1,2-Dibromo-3-chloropropane  | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| 1,2-Dibromoethane (EDB)      | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| Dibromomethane               | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| 1,2-Dichlorobenzene          | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| 1,3-Dichlorobenzene          | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| 1,4-Dichlorobenzene          | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| Dichlorodifluoromethane      | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| 1,1-Dichloroethane           | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| 1,2-Dichloroethane (1,2-DCA) | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| 1,1-Dichloroethene           | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| cis-1,2-Dichloroethene       | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| trans-1,2-Dichloroethene     | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| 1,2-Dichloropropane          | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| 1,3-Dichloropropane          | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| 2,2-Dichloropropane          | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| 1,1-Dichloropropene          | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| cis-1,3-Dichloropropene      | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| trans-1,3-Dichloropropene    | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| Freon 113                    | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| Hexachlorobutadiene          | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| Hexachloroethane             | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| Methylene chloride           | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| 1,1,1,2-Tetrachloroethane    | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| 1,1,2,2-Tetrachloroethane    | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| Tetrachloroethene            | 26     | H          | 2.5  | 10 | 05/08/2015 12:49 |

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/7/15 17:59  
**Date Prepared:** 5/7/15-5/8/15

**WorkOrder:** 1505261  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD INF   | 1505261-001A | Air            | 05/07/2015 08:30 | GC28       | 104617   |

| Analytes               | Result | Qualifiers | RL   | DF | Date Analyzed    |
|------------------------|--------|------------|------|----|------------------|
| 1,2,3-Trichlorobenzene | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| 1,2,4-Trichlorobenzene | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| 1,1,1-Trichloroethane  | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| 1,1,2-Trichloroethane  | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| Trichloroethene        | 1.1    | H          | 0.25 | 1  | 05/07/2015 21:04 |
| Trichlorofluoromethane | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| 1,2,3-Trichloropropane | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |
| Vinyl Chloride         | ND     | H          | 0.25 | 1  | 05/07/2015 21:04 |

| Surrogates           | REC (%) | Qualifiers | Limits | Date Analyzed    |
|----------------------|---------|------------|--------|------------------|
| Dibromofluoromethane | 110     | H          | 70-130 | 05/07/2015 21:04 |
| Toluene-d8           | 107     | H          | 70-130 | 05/07/2015 21:04 |
| 4-BFB                | 100     | H          | 70-130 | 05/07/2015 21:04 |

**Analyst(s):** GM, KF



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/7/15 17:59  
**Date Prepared:** 5/7/15-5/8/15

**WorkOrder:** 1505261  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-1 INF | 1505261-002A | Air            | 05/07/2015 08:45 | GC28       | 104617   |

| Analytes                     | Result      | Qualifiers | RL   | DF | Date Analyzed    |
|------------------------------|-------------|------------|------|----|------------------|
| Bromobenzene                 | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| Bromochloromethane           | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| Bromodichloromethane         | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| Bromoform                    | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| Bromomethane                 | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| Carbon Tetrachloride         | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| Chlorobenzene                | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| Chloroethane                 | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| Chloroform                   | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| Chloromethane                | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| 2-Chlorotoluene              | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| 4-Chlorotoluene              | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| Dibromochloromethane         | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| 1,2-Dibromo-3-chloropropane  | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| 1,2-Dibromoethane (EDB)      | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| Dibromomethane               | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| 1,2-Dichlorobenzene          | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| 1,3-Dichlorobenzene          | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| 1,4-Dichlorobenzene          | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| Dichlorodifluoromethane      | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| 1,1-Dichloroethane           | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| 1,2-Dichloroethane (1,2-DCA) | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| 1,1-Dichloroethene           | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| cis-1,2-Dichloroethene       | <b>0.80</b> | H          | 0.25 | 1  | 05/07/2015 21:41 |
| trans-1,2-Dichloroethene     | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| 1,2-Dichloropropane          | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| 1,3-Dichloropropane          | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| 2,2-Dichloropropane          | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| 1,1-Dichloropropene          | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| cis-1,3-Dichloropropene      | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| trans-1,3-Dichloropropene    | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| Freon 113                    | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| Hexachlorobutadiene          | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| Hexachloroethane             | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| Methylene chloride           | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| 1,1,1,2-Tetrachloroethane    | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| 1,1,2,2-Tetrachloroethane    | ND          | H          | 0.25 | 1  | 05/07/2015 21:41 |
| Tetrachloroethene            | <b>81</b>   | H          | 10   | 40 | 05/08/2015 13:27 |

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/7/15 17:59  
**Date Prepared:** 5/7/15-5/8/15

**WorkOrder:** 1505261  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-1 INF | 1505261-002A | Air            | 05/07/2015 08:45 | GC28       | 104617   |

| Analytes               | Result     | Qualifiers | RL   | DF | Date Analyzed    |
|------------------------|------------|------------|------|----|------------------|
| 1,2,3-Trichlorobenzene | ND         | H          | 0.25 | 1  | 05/07/2015 21:41 |
| 1,2,4-Trichlorobenzene | ND         | H          | 0.25 | 1  | 05/07/2015 21:41 |
| 1,1,1-Trichloroethane  | ND         | H          | 0.25 | 1  | 05/07/2015 21:41 |
| 1,1,2-Trichloroethane  | ND         | H          | 0.25 | 1  | 05/07/2015 21:41 |
| Trichloroethene        | <b>8.0</b> | H          | 0.25 | 1  | 05/07/2015 21:41 |
| Trichlorofluoromethane | ND         | H          | 0.25 | 1  | 05/07/2015 21:41 |
| 1,2,3-Trichloropropane | ND         | H          | 0.25 | 1  | 05/07/2015 21:41 |
| Vinyl Chloride         | ND         | H          | 0.25 | 1  | 05/07/2015 21:41 |

| Surrogates           | REC (%) | Qualifiers | Limits | Date Analyzed    |
|----------------------|---------|------------|--------|------------------|
| Dibromofluoromethane | 113     | H          | 70-130 | 05/07/2015 21:41 |
| Toluene-d8           | 106     | H          | 70-130 | 05/07/2015 21:41 |
| 4-BFB                | 101     | H          | 70-130 | 05/07/2015 21:41 |

**Analyst(s):** GM, KF



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/7/15 17:59  
**Date Prepared:** 5/7/15-5/8/15

**WorkOrder:** 1505261  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD INF   | 1505261-001A | Air            | 05/07/2015 08:30 | GC28       | 104617   |

| Analytes                     | Result        | Qualifiers | RL   | DF | Date Analyzed    |
|------------------------------|---------------|------------|------|----|------------------|
| Bromobenzene                 | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| Bromochloromethane           | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| Bromodichloromethane         | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| Bromoform                    | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| Bromomethane                 | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| Carbon Tetrachloride         | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| Chlorobenzene                | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| Chloroethane                 | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| Chloroform                   | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| Chloromethane                | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| 2-Chlorotoluene              | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| 4-Chlorotoluene              | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| Dibromochloromethane         | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| 1,2-Dibromo-3-chloropropane  | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| 1,2-Dibromoethane (EDB)      | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| Dibromomethane               | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| 1,2-Dichlorobenzene          | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| 1,3-Dichlorobenzene          | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| 1,4-Dichlorobenzene          | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| Dichlorodifluoromethane      | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| 1,1-Dichloroethane           | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| 1,2-Dichloroethane (1,2-DCA) | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| 1,1-Dichloroethene           | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| cis-1,2-Dichloroethene       | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| trans-1,2-Dichloroethene     | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| 1,2-Dichloropropane          | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| 1,3-Dichloropropane          | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| 2,2-Dichloropropane          | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| 1,1-Dichloropropene          | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| cis-1,3-Dichloropropene      | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| trans-1,3-Dichloropropene    | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| Freon 113                    | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| Hexachlorobutadiene          | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| Hexachloroethane             | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| Methylene chloride           | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| 1,1,1,2-Tetrachloroethane    | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| 1,1,2,2-Tetrachloroethane    | ND            | H          | 250  | 1  | 05/07/2015 21:04 |
| Tetrachloroethene            | <b>26,000</b> | H          | 2500 | 10 | 05/08/2015 12:49 |

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/7/15 17:59  
**Date Prepared:** 5/7/15-5/8/15

**WorkOrder:** 1505261  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SSD INF   | 1505261-001A | Air            | 05/07/2015 08:30 | GC28       | 104617   |

| Analytes               | Result      | Qualifiers | RL  | DF | Date Analyzed    |
|------------------------|-------------|------------|-----|----|------------------|
| 1,2,3-Trichlorobenzene | ND          | H          | 250 | 1  | 05/07/2015 21:04 |
| 1,2,4-Trichlorobenzene | ND          | H          | 250 | 1  | 05/07/2015 21:04 |
| 1,1,1-Trichloroethane  | ND          | H          | 250 | 1  | 05/07/2015 21:04 |
| 1,1,2-Trichloroethane  | ND          | H          | 250 | 1  | 05/07/2015 21:04 |
| Trichloroethene        | <b>1100</b> | H          | 250 | 1  | 05/07/2015 21:04 |
| Trichlorofluoromethane | ND          | H          | 250 | 1  | 05/07/2015 21:04 |
| 1,2,3-Trichloropropane | ND          | H          | 250 | 1  | 05/07/2015 21:04 |
| Vinyl Chloride         | ND          | H          | 250 | 1  | 05/07/2015 21:04 |

| Surrogates           | REC (%) | Qualifiers | Limits | Date Analyzed    |
|----------------------|---------|------------|--------|------------------|
| Dibromofluoromethane | 110     | H          | 70-130 | 05/07/2015 21:04 |
| Toluene-d8           | 107     | H          | 70-130 | 05/07/2015 21:04 |
| 4-BFB                | 100     | H          | 70-130 | 05/07/2015 21:04 |

**Analyst(s):** GM, KF





## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/7/15 17:59  
**Date Prepared:** 5/7/15-5/8/15

**WorkOrder:** 1505261  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-1 INF | 1505261-002A | Air            | 05/07/2015 08:45 | GC28       | 104617   |

| Analytes                     | Result        | Qualifiers | RL     | DF | Date Analyzed    |
|------------------------------|---------------|------------|--------|----|------------------|
| Bromobenzene                 | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| Bromochloromethane           | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| Bromodichloromethane         | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| Bromoform                    | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| Bromomethane                 | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| Carbon Tetrachloride         | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| Chlorobenzene                | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| Chloroethane                 | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| Chloroform                   | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| Chloromethane                | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| 2-Chlorotoluene              | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| 4-Chlorotoluene              | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| Dibromochloromethane         | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| 1,2-Dibromo-3-chloropropane  | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| 1,2-Dibromoethane (EDB)      | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| Dibromomethane               | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| 1,2-Dichlorobenzene          | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| 1,3-Dichlorobenzene          | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| 1,4-Dichlorobenzene          | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| Dichlorodifluoromethane      | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| 1,1-Dichloroethane           | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| 1,2-Dichloroethane (1,2-DCA) | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| 1,1-Dichloroethene           | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| cis-1,2-Dichloroethene       | <b>800</b>    | H          | 250    | 1  | 05/07/2015 21:41 |
| trans-1,2-Dichloroethene     | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| 1,2-Dichloropropane          | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| 1,3-Dichloropropane          | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| 2,2-Dichloropropane          | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| 1,1-Dichloropropene          | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| cis-1,3-Dichloropropene      | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| trans-1,3-Dichloropropene    | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| Freon 113                    | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| Hexachlorobutadiene          | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| Hexachloroethane             | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| Methylene chloride           | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| 1,1,1,2-Tetrachloroethane    | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| 1,1,2,2-Tetrachloroethane    | ND            | H          | 250    | 1  | 05/07/2015 21:41 |
| Tetrachloroethene            | <b>81,000</b> | H          | 10,000 | 40 | 05/08/2015 13:27 |

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Project:** #261829; Foothill Square  
**Date Received:** 5/7/15 17:59  
**Date Prepared:** 5/7/15-5/8/15

**WorkOrder:** 1505261  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/m<sup>3</sup>

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

| Client ID | Lab ID       | Matrix/ExtType | Date Collected   | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| SVE-1 INF | 1505261-002A | Air            | 05/07/2015 08:45 | GC28       | 104617   |

| Analytes               | Result      | Qualifiers | RL  | DF | Date Analyzed    |
|------------------------|-------------|------------|-----|----|------------------|
| 1,2,3-Trichlorobenzene | ND          | H          | 250 | 1  | 05/07/2015 21:41 |
| 1,2,4-Trichlorobenzene | ND          | H          | 250 | 1  | 05/07/2015 21:41 |
| 1,1,1-Trichloroethane  | ND          | H          | 250 | 1  | 05/07/2015 21:41 |
| 1,1,2-Trichloroethane  | ND          | H          | 250 | 1  | 05/07/2015 21:41 |
| Trichloroethene        | <b>8000</b> | H          | 250 | 1  | 05/07/2015 21:41 |
| Trichlorofluoromethane | ND          | H          | 250 | 1  | 05/07/2015 21:41 |
| 1,2,3-Trichloropropane | ND          | H          | 250 | 1  | 05/07/2015 21:41 |
| Vinyl Chloride         | ND          | H          | 250 | 1  | 05/07/2015 21:41 |

| Surrogates           | REC (%) | Qualifiers | Limits | Date Analyzed    |
|----------------------|---------|------------|--------|------------------|
| Dibromofluoromethane | 113     | H          | 70-130 | 05/07/2015 21:41 |
| Toluene-d8           | 106     | H          | 70-130 | 05/07/2015 21:41 |
| 4-BFB                | 101     | H          | 70-130 | 05/07/2015 21:41 |

**Analyst(s):** GM, KF



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 5/7/15  
**Date Analyzed:** 5/7/15  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1505261  
**BatchID:** 104617  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-104617

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Benzene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | -          | 2.0  | -       | -          | -        | -          |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | 8.61       | 0.50 | 10      | -          | 86       | 43-157     |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 8.86       | 0.50 | 10      | -          | 89       | 44-155     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 9.15       | 0.50 | 10      | -          | 91       | 66-125     |
| 1,1-Dichloroethene            | ND        | 9.38       | 0.50 | 10      | -          | 94       | 47-149     |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



# Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 5/7/15  
**Date Analyzed:** 5/7/15  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** #261829; Foothill Square

**WorkOrder:** 1505261  
**BatchID:** 104617  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-104617

## QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | -          | 0.50 | -       | -          | -        | -          |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | 8.88       | 0.50 | 10      | -          | 89       | 43-157     |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |

### Surrogate Recovery

|                      |      |      |  |     |     |     |        |
|----------------------|------|------|--|-----|-----|-----|--------|
| Dibromofluoromethane | 26.8 | 27.1 |  | 25  | 107 | 108 | 65-135 |
| Toluene-d8           | 27.0 | 27.0 |  | 25  | 108 | 108 | 64-127 |
| 4-BFB                | 2.36 | 2.37 |  | 2.5 | 94  | 95  | 59-139 |



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1505261

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQuIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**  
 Jeremy Smith  
 AEI Consultants  
 2500 Camino Diablo, Ste.#200  
 Walnut Creek, CA 94597  
 (925) 283-6000    FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com  
 cc/3rd Party:  
 PO: #82769  
 ProjectNo: #261829; Foothill Square

**Bill to:**  
 Accounts Payable  
 AEI Consultants  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597  
 AccountsPayable@AEIConsultants.com

**Requested TAT: 5 days**  
  
**Date Received: 05/07/2015**  
**Date Printed: 05/13/2015**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 1505261-001 | SSD INF   | Air    | 5/7/2015 8:30   | <input type="checkbox"/> | A                                  | A | A |   |   |   |   |   |   |    |    |    |  |
| 1505261-002 | SVE-1 INF | Air    | 5/7/2015 8:45   | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |           |    |                  |   |              |   |  |    |  |
|----|-----------|----|------------------|---|--------------|---|--|----|--|
| 1  | 8010BMS_A | 2  | 8010BMS_A(UG/M3) | 3 | PREDF REPORT | 4 |  | 5  |  |
| 6  |           | 7  |                  | 8 |              | 9 |  | 10 |  |
| 11 |           | 12 |                  |   |              |   |  |    |  |

The following SamplIDs: 001A, 002A contain testgroup.

**Prepared by: Jena Alfaro**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS  
**Project:** #261829; Foothill Square  
**Comments:**

**QC Level:** LEVEL 2  
**Client Contact:** Jeremy Smith  
**Contact's Email:** jasmith@aeiconsultants.com

**Work Order:** 1505261  
**Date Received:** 5/7/2015

WaterTrax     WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

| Lab ID       | Client ID | Matrix | Test Name     | Containers /Composites | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT    | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|---------------|------------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1505261-001A | SSD INF   | Air    | HVOCs by GCMS | 1                      | Tedlar                | <input type="checkbox"/> | 5/7/2015 8:30          | 5 days |                  | <input type="checkbox"/> |        |
| 1505261-002A | SVE-1 INF | Air    | HVOCs by GCMS | 1                      | Tedlar                | <input type="checkbox"/> | 5/7/2015 8:45          | 5 days |                  | <input type="checkbox"/> |        |

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1505261

**McCAMPBELL ANALYTICAL INC.**  
 1534 Willow Pass Road  
 Pittsburg, CA 94565  
 Telephone: (925) 252-9262 Fax: (925) 252-9269

**CHAIN OF CUSTODY RECORD**  
**TURN AROUND TIME**  RUSH  24 HR  48 HR  72 HR  5 DAY  
 EDF Required?  Yes  No

Report To: Jeremy Smith Bill To: same P.O. # 82769  
 Company: AEI Consultants  
 2500 Camino Diablo  
 Walnut Creek, CA 94597 E-Mail: jsmith@aeiconsultants.com  
 Tele: (925) 746-6000 Fax: (925) 746-6099  
 Project #: 261829 Project Name: Foothill Square  
 Project Location: 10700 MacArthur Blvd. Oakland, CA  
 Sampler Signature: *John SGA*

| Analysis Request                            |  |  |  |  |  |  |  |  |  |  | Other | Comments |  |
|---------------------------------------------|--|--|--|--|--|--|--|--|--|--|-------|----------|--|
| BTEX & TPH as Gas (602/8020 + 8015)/MTBE    |  |  |  |  |  |  |  |  |  |  |       |          |  |
| TPH as Diesel (8015) w/silica Gel Cleanup   |  |  |  |  |  |  |  |  |  |  |       |          |  |
| Total Petroleum Oil & Grease (5520 E&F/B&F) |  |  |  |  |  |  |  |  |  |  |       |          |  |
| Total Petroleum Hydrocarbons (418.1)        |  |  |  |  |  |  |  |  |  |  |       |          |  |
| HVOCs EPA 8260                              |  |  |  |  |  |  |  |  |  |  |       |          |  |
| BTEX ONLY (EPA 602 / 8020)                  |  |  |  |  |  |  |  |  |  |  |       |          |  |
| EPA 608 / 8080                              |  |  |  |  |  |  |  |  |  |  |       |          |  |
| EPA 608 / 8080 PCB's ONLY                   |  |  |  |  |  |  |  |  |  |  |       |          |  |
| EPA 624 / 8260                              |  |  |  |  |  |  |  |  |  |  |       |          |  |
| EPA 625 / 8270                              |  |  |  |  |  |  |  |  |  |  |       |          |  |
| PAH's / PNA's by EPA 625 / 8270 / 8310      |  |  |  |  |  |  |  |  |  |  |       |          |  |
| CAM-17 Metals                               |  |  |  |  |  |  |  |  |  |  |       |          |  |
| LUFT 5 Metals                               |  |  |  |  |  |  |  |  |  |  |       |          |  |
| Lead (7240/7421/239.2/6010)                 |  |  |  |  |  |  |  |  |  |  |       |          |  |
| RCI                                         |  |  |  |  |  |  |  |  |  |  |       |          |  |

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |  |  |  |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|--|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
| SSD INF                         |          | 5-7-15   | 0830 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
| SVE-1 INF                       |          | 5-7-15   | 0845 | 1            | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |
|                                 |          |          |      |              |                 |        |      |     |        |       |                  |     |                  |       |  |  |  |  |  |

Relinquished By: *John SGA* Date: 5-7-15 Time: 12:15 Received By: *[Signature]*  
 Relinquished By: *[Signature]* Date: 5-7-15 Time: 17:10 Received By: *[Signature]*  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_

ICE/° \_\_\_\_\_ PRESERVATION \_\_\_\_\_  
 GOOD CONDITION \_\_\_\_\_ APPROPRIATE \_\_\_\_\_  
 HEAD SPACE ABSENT \_\_\_\_\_ CONTAINERS \_\_\_\_\_  
 DECHLORINATED IN LAB \_\_\_\_\_ PERSERVED IN LAB \_\_\_\_\_

VOAS \_\_\_\_\_ O&G \_\_\_\_\_ METALS \_\_\_\_\_ OTHER \_\_\_\_\_



### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **5/7/2015 5:59:52 PM**  
 Project Name: **#261829; Foothill Square** LogIn Reviewed by: **Jena Alfaro**  
 WorkOrder No: **1505261** Matrix: Air Carrier: Bernie Cummins (MAI Courier)

**Chain of Custody (COC) Information**

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
 Sample/Temp Blank temperature Temp: NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes  No  NA   
 Samples Received on Ice? Yes  No

**UCMR3 Samples:**

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes  No  NA   
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes  No  NA

\* NOTE: If the "No" box is checked, see comments below.

Comments: Method SW8260B (HVOCs List) was received passed its 0.25-day holding time.



**APPENDIX E**  
**SYSTEM FIELD DATA**

Site Name: Foothill Square  
 Location: 10700 MacArthur Blvd., Oakland  
 Project No.: 261829

Field Technician: John Sigg  
 Project Manager: Jeremy Smith  
 Conditions: \_\_\_\_\_

**SSD SYSTEM**

| Date     | Time  | Extraction Pits Online | System Status (ON/OFF) | Current Hour Meter | Previous Hour Meter | System Runtime (hours) | Water In Knock-out Tank? | Cooling Fans Working? | Inlet Temp (°F) | VFD Setting (Hz) | System Vacuum (in-H2O) | Total Velocity (fpm) | **Total Flow (cfm) | Outlet Temp (°F) |
|----------|-------|------------------------|------------------------|--------------------|---------------------|------------------------|--------------------------|-----------------------|-----------------|------------------|------------------------|----------------------|--------------------|------------------|
| 01/13/14 | 10:00 | ALL                    | Startup                | 0.4                |                     |                        | No                       | Yes                   | 60              | 50               | 20                     | 5,000                | 109                | 80               |
| 01/14/14 | 8:54  | ALL                    | ON                     | 22.9               | 0.4                 | 22.5                   | No                       | Yes                   | 60              | 50               | 20                     | 5,000                | 109                | 86               |
| 01/15/14 | 12:00 | ALL                    | ON                     | 50.0               | 22.9                | 27.1                   | No                       | Yes                   | 66              | 50               | 20                     | 5,000                | 109                | 90               |
| 01/16/14 | 8:00  | ALL                    | ON                     | 70.0               | 50.0                | 20.0                   | No                       | Yes                   | 62              | 50               | 20                     | 5,000                | 109                | 86               |
| 01/17/14 | 9:10  | ALL                    | ON                     | 95.0               | 70.0                | 25.0                   | No                       | Yes                   | 62              | 50               | 20                     | 5,000                | 109                | 86               |
| 03/03/14 | 10:00 | ALL                    | Startup                | 96.1               | 95.0                | 1.1                    | No                       | Yes                   | 64              | 50               | 18                     | 5,000                | 109                | 72               |
| 03/04/14 | 14:00 | ALL                    | ON                     | 124.1              | 96.1                | 28.0                   | No                       | Yes                   | 66              | 50               | 18                     | 5,000                | 109                | 92               |
| 03/05/14 | 8:30  | ALL                    | ON                     | 143.2              | 124.1               | 19.1                   | No                       | Yes                   | 68              | 50               | 18                     | 5,000                | 109                | 94               |
| 03/06/14 | 11:30 | ALL                    | ON                     | 170.2              | 143.2               | 27.0                   | No                       | Yes                   | 68              | 50               | 18                     | 5,000                | 109                | 102              |
| 03/07/14 | 13:20 | ALL                    | ON                     | 196.9              | 170.2               | 26.7                   | No                       | Yes                   | 70              | 50               | 18                     | 5,000                | 109                | 110              |
| 03/10/14 | 7:40  | ALL                    | Startup                | 196.9              | 196.9               | 0.0                    | No                       | Yes                   | 68              | 50               | 18                     | 5,000                | 109                | 68               |
| 03/11/14 | 14:10 | ALL                    | ON                     | 228.4              | 196.9               | 31.5                   | No                       | Yes                   | 72              | 50               | 18                     | 5,000                | 109                | 110              |
| 03/12/14 | 13:05 | ALL                    | ON                     | 251.3              | 228.4               | 22.9                   | No                       | Yes                   | 74              | 50               | 18                     | 5,000                | 109                | 112              |
| 03/13/14 | 15:45 | ALL                    | ON                     | 277.7              | 251.3               | 26.4                   | No                       | Yes                   | 76              | 50               | 18                     | 5,000                | 109                | 116              |
| 03/20/14 | 9:40  | ALL                    | ON                     | 443.3              | 277.7               | 165.6                  | No                       | Yes                   | 72              | 50               | 18                     | 5,000                | 109                | 100              |
| 03/27/14 | 13:10 | ALL                    | ON                     | 617.7              | 443.3               | 174.4                  | No                       | Yes                   | 76              | 50               | 18                     | 5,000                | 109                | 100              |
| 04/03/14 | 8:45  | ALL                    | ON                     | 785.1              | 617.7               | 167.4                  | No                       | Yes                   | 72              | 50               | 18                     | 5,000                | 109                | 100              |
| 04/10/14 | 11:45 | ALL                    | ON                     | 948.4              | 785.1               | 163.3                  | No                       | Yes                   | 74              | 50               | 18                     | 5,000                | 109                | 100              |
| 04/16/14 | 9:15  | ALL                    | ON                     | 1097.1             | 948.4               | 148.7                  | No                       | Yes                   | 69              | 50               | 16                     | 5,000                | 109                | 88               |
| 04/25/14 | 5:55  | ALL                    | ON                     | 1310.7             | 1097.1              | 213.6                  | No                       | Yes                   | 70              | 50               | 16                     | 5,000                | 109                | 82               |
| 05/02/14 | 7:27  | ALL                    | ON                     | 1480.6             | 1310.7              | 169.9                  | No                       | Yes                   | 70              | 50               | 16                     | 5,000                | 109                | 86               |
| 05/09/14 | 10:00 | ALL                    | ON                     | 1652.0             | 1480.6              | 171.4                  | No                       | Yes                   | 70              | 50               | 16                     | 5,000                | 109                | 82               |
| 05/16/14 | 9:30  | ALL                    | ON                     | 1920.0             | 1652.0              | 268.0                  | No                       | Yes                   | 70              | 50               | 16                     | 5,000                | 109                | 88               |
| 05/23/14 | 9:00  | ALL                    | ON                     | 1988.3             | 1920.0              | 68.3                   | No                       | Yes                   | 68              | 50               | 16                     | 5,000                | 109                | 80               |
| 05/30/14 | 8:30  | ALL                    | ON                     | 2156.4             | 1988.3              | 168.1                  | No                       | Yes                   | 70              | 50               | 16                     | 5,000                | 109                | 80               |
| 06/06/14 | 5:00  | ALL                    | ON                     | 2320.5             | 2156.4              | 164.1                  | No                       | Yes                   | 68              | 50               | 10                     | 4,000                | 87                 | 80               |
| 06/18/14 | 10:45 | ALL                    | ON                     | 2613.9             | 2320.5              | 293.4                  | No                       | Yes                   | 70              | 50               | 10                     | 4,000                | 87                 | 80               |
| 06/24/14 | 12:45 | ALL                    | ON                     | 2760.1             | 2613.9              | 146.2                  | No                       | Yes                   | 70              | 50               | 10                     | 4,000                | 87                 | 80               |
| 07/03/14 | 6:00  | ALL                    | ON                     | 2970.6             | 2760.1              | 210.5                  | No                       | Yes                   | 72              | 50               | 10                     | 4,000                | 87                 | 84               |
| 07/10/14 | 6:30  | ALL                    | ON                     | 3139.6             | 2970.6              | 169.0                  | No                       | Yes                   | 72              | 50               | 10                     | 4,000                | 87                 | 86               |
| 08/11/14 | 5:30  | ALL                    | ON                     | 3909.8             | 3139.6              | 770.2                  | No                       | Yes                   | 72              | 50               | 10                     | 4,000                | 87                 | 84               |
| 09/12/14 | 8:00  | ALL                    | ON                     | 4282.6             | 3909.8              | 372.8                  | No                       | Yes                   | 70              | 50               | 10                     | 4,000                | 87                 | 86               |
| 10/14/14 | 10:00 | ALL                    | ON                     | 5457.2             | 4282.6              | 1174.6                 | No                       | Yes                   | 70              | 50               | 10                     | 4,000                | 87                 | 84               |
| 11/20/14 | 5:00  | ALL                    | ON                     | 6344.9             | 5457.2              | 887.7                  | No                       | Yes                   | 68              | 50               | 10                     | 4,000                | 87                 | 80               |
| 12/31/14 | 5:30  | ALL                    | ON                     | 7333.0             | 6344.9              | 988.1                  | No                       | Yes                   | 62              | 50               | 10                     | 4,000                | 87                 | 70               |
| 01/14/15 | 7:30  | ALL                    | ON                     | 7672.6             | 7333.0              | 339.6                  | No                       | Yes                   | 62              | 50               | 10                     | 4,000                | 87                 | 70               |
| 02/11/15 | 7:30  | ALL                    | ON                     | 8347.5             | 7672.6              | 674.9                  | No                       | Yes                   | 64              | 50               | 10                     | 4,000                | 87                 | 68               |
| 03/26/15 | 8:17  | ALL                    | ON                     | 9384.9             | 8347.5              | 1037.4                 | No                       | Yes                   | 68              | 50               | 12                     | 4,200                | 92                 | 72               |
| 04/20/15 | 6:00  | ALL                    | ON                     | 9995.6             | 9384.9              | 610.7                  | No                       | Yes                   | 62              | 50               | 12                     | 4,200                | 92                 | 70               |
| 05/07/15 | 8:00  | ALL                    | ON                     | 10412.5            | 9995.6              | 416.9                  | No                       | Yes                   | 68              | 50               | 12                     | 4,200                | 92                 | 74               |

**NOTES:** 1-13-14 @ 10:00 commence system operation

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1-17-14 @ 10:00 system shut down for weekend per BAAQMD Permit Conditions - system off until 3/314 due to electrical issues at the site

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3/3/14 @10:00 System Started Back Up

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3/7/14 - system shut down for weekend per BAAQMD Permit Conditions

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\*F = degree Fahrenheit  
 in-H2O = inches of water  
 fpm = actual feet per minute  
 cfm = actual cubic feet per minute  
 Cross Sectional Area of 2" Pipe = 0.0218 ft<sup>2</sup>  
 \*\*Total Flow = Total Velocity \* Area of 2" Pipe

**AEI CONSULTANTS**  
**VAPOR EXTRACTION / BLOWER SYSTEM FIELD DATA SHEET**

Site Name: Foothill Square  
 Location: 10700 MacArthur Blvd., Oakland  
 Project No.: 261829

Field Technician: John Sigg  
 Project Manager: Jeremy Smith  
 Conditions: \_\_\_\_\_

**SVE SYSTEM**

| Date     | Time  | System Status (ON/OFF) | Current Hour Meter | Previous Hour Meter | System Runtime (hours) | Water In Knock-out Tank? | Cooling Fans Working? | Inlet Temp (°F) | VFD Setting (Hz) | System Vacuum (in-H2O) | Total Velocity (fpm) | **Total Flow (cfm) | Outlet Temp (°F) |
|----------|-------|------------------------|--------------------|---------------------|------------------------|--------------------------|-----------------------|-----------------|------------------|------------------------|----------------------|--------------------|------------------|
| 01/13/14 | 12:00 | Startup                | 0.4                |                     |                        | No                       | Yes                   | 60              | 60               | 36                     | 100                  | 2                  | 60               |
| 01/14/14 | 8:54  | ON                     | 22.9               | 0.4                 | 22.5                   | No                       | Yes                   | 60              | 60               | 37                     | 100                  | 2                  | 60               |
| 01/15/14 | 12:00 | ON                     | 50.0               | 22.9                | 27.1                   | No                       | Yes                   | 65              | 60               | 37                     | 100                  | 2                  | 68               |
| 01/16/14 | 8:00  | ON                     | 70.0               | 50.0                | 20.0                   | No                       | Yes                   | 60              | 60               | 37                     | 100                  | 2                  | 60               |
| 01/17/14 | 9:10  | ON                     | 95.0               | 70.0                | 25.0                   | No                       | Yes                   | 60              | 60               | 37                     | 100                  | 2                  | 62               |
| 03/03/14 | 10:00 | Startup <sup>1</sup>   | 96.1               | 95.0                | 1.1                    | No                       | Yes                   | 60              | 50               | 110                    | 800                  | 17                 | 70               |
| 03/04/14 | 14:00 | ON                     | 124.1              | 96.1                | 28.0                   | No                       | Yes                   | 62              | 50               | 110                    | 800                  | 17                 | 82               |
| 03/05/14 | 8:30  | ON                     | 143.2              | 124.1               | 19.1                   | No                       | Yes                   | 66              | 50               | 105                    | 900                  | 20                 | 88               |
| 03/06/14 | 11:30 | ON                     | 170.2              | 143.2               | 27.0                   | No                       | Yes                   | 68              | 50               | 105                    | 900                  | 20                 | 102              |
| 03/07/14 | 13:20 | ON                     | 196.9              | 170.2               | 26.7                   | No                       | Yes                   | 72              | 50               | 105                    | 900                  | 20                 | 110              |
| 03/10/14 | 7:40  | Startup                | 196.9              | 196.9               | 0.0                    | No                       | Yes                   | 68              | 50               | 105                    | 900                  | 20                 | 68               |
| 03/11/14 | 14:10 | ON                     | 228.9              | 196.9               | 32.0                   | No                       | Yes                   | 72              | 50               | 105                    | 900                  | 20                 | 112              |
| 03/12/14 | 13:05 | ON                     | 251.8              | 228.9               | 22.9                   | No                       | Yes                   | 74              | 50               | 105                    | 900                  | 20                 | 114              |
| 03/13/14 | 15:45 | ON                     | 278.2              | 251.8               | 26.4                   | No                       | Yes                   | 76              | 50               | 105                    | 900                  | 20                 | 118              |
| 03/20/14 | 9:40  | ON                     | 444.5              | 278.2               | 166.3                  | No                       | Yes                   | 72              | 50               | 105                    | 900                  | 20                 | 98               |
| 03/27/14 | 13:10 | ON                     | 619.3              | 444.5               | 174.8                  | No                       | Yes                   | 74              | 50               | 105                    | 900                  | 20                 | 110              |
| 04/03/14 | 8:45  | Off                    | 619.3              | 619.3               | 0.0                    | No                       | Yes                   | 68              | 50               | 100                    | 900                  | 20                 | 82               |
| 04/10/14 | 11:45 | ON                     | 782.5              | 619.3               | 163.2                  | No                       | Yes                   | 72              | 50               | 100                    | 900                  | 20                 | 96               |
| 04/16/14 | 9:15  | ON                     | 931.6              | 782.5               | 149.1                  | No                       | Yes                   | 68.5            | 50               | 135                    | 600                  | 13                 | 90               |
| 04/25/14 | 5:55  | ON                     | 1145.4             | 931.6               | 213.8                  | No                       | Yes                   | 68              | 50               | 140                    | 550                  | 12                 | 92               |
| 05/02/14 | 7:26  | ON                     | 1315.5             | 1145.4              | 170.1                  | No                       | Yes                   | 70              | 50               | 140                    | 550                  | 12                 | 98               |
| 05/09/14 | 10:00 | ON                     | 1487.0             | 1315.5              | 171.5                  | No                       | Yes                   | 70              | 50               | 140                    | 550                  | 12                 | 96               |
| 05/16/14 | 9:30  | ON                     | 1655.2             | 1487.0              | 168.2                  | No                       | Yes                   | 70              | 50               | 145                    | 550                  | 12                 | 100              |
| 05/23/14 | 9:00  | ON                     | 1823.6             | 1655.2              | 168.4                  | No                       | Yes                   | 68              | 50               | 150                    | 550                  | 12                 | 92               |
| 05/30/14 | 8:30  | ON                     | 1991.8             | 1823.6              | 168.2                  | No                       | Yes                   | 68              | 50               | 150                    | 550                  | 12                 | 96               |
| 06/06/14 | 5:00  | ON                     | 2156.6             | 1991.8              | 164.8                  | No                       | Yes                   | 68              | 50               | 150                    | 500                  | 11                 | 80               |
| 06/18/14 | 10:45 | ON                     | 2449.7             | 2156.6              | 293.1                  | No                       | Yes                   | 70              | 50               | 145                    | 500                  | 11                 | 80               |
| 06/24/14 | 12:45 | ON                     | 2595.8             | 2449.7              | 146.1                  | No                       | Yes                   | 70              | 50               | 145                    | 500                  | 11                 | 80               |
| 07/03/14 | 6:00  | ON                     | 2806.7             | 2595.8              | 210.9                  | No                       | Yes                   | 72              | 50               | 145                    | 500                  | 11                 | 84               |
| 07/10/14 | 6:30  | ON                     | 2975.9             | 2806.7              | 169.2                  | No                       | Yes                   | 74              | 50               | 145                    | 500                  | 11                 | 86               |
| 08/11/14 | 5:30  | ON                     | 3745.6             | 2975.9              | 769.7                  | No                       | Yes                   | 72              | 50               | 145                    | 500                  | 11                 | 84               |
| 09/12/14 | 8:00  | ON                     | 4520.1             | 3745.6              | 774.5                  | No                       | Yes                   | 72              | 50               | 145                    | 500                  | 11                 | 86               |
| 10/14/14 | 10:00 | ON                     | 5293.1             | 4520.1              | 773.0                  | No                       | Yes                   | 70              | 50               | 145                    | 500                  | 11                 | 84               |
| 11/20/14 | 5:00  | ON                     | 6183.8             | 5293.1              | 890.7                  | No                       | Yes                   | 68              | 50               | 145                    | 500                  | 11                 | 80               |
| 12/31/14 | 5:30  | ON                     | 7172.6             | 6183.8              | 988.8                  | No                       | Yes                   | 54              | 50               | 145                    | 500                  | 11                 | 70               |
| 01/14/15 | 7:30  | ON                     | 7512.5             | 7172.6              | 339.9                  | No                       | Yes                   | 58              | 50               | 145                    | 500                  | 11                 | 70               |
| 02/11/15 | 7:30  | ON                     | 8187.9             | 7512.5              | 675.4                  | No                       | Yes                   | 60              | 50               | 145                    | 500                  | 11                 | 72               |
| 03/26/15 | 8:15  | Off                    | 9226.3             | 8187.9              | 1038.4                 | No                       | Yes                   | --              | --               | --                     | --                   | --                 | --               |
| 04/20/15 | 6:00  | ON                     | 9297.4             | 9226.3              | 71.1                   | No                       | Yes                   | 60              | 50               | 145                    | 500                  | 11                 | 70               |
| 05/07/15 | 8:00  | ON                     | 9667.1             | 9297.4              | 369.7                  | No                       | Yes                   | 68              | 50               | 145                    | 500                  | 11                 | 74               |
|          |       |                        |                    |                     |                        |                          |                       |                 |                  |                        |                      |                    |                  |
|          |       |                        |                    |                     |                        |                          |                       |                 |                  |                        |                      |                    |                  |
|          |       |                        |                    |                     |                        |                          |                       |                 |                  |                        |                      |                    |                  |
|          |       |                        |                    |                     |                        |                          |                       |                 |                  |                        |                      |                    |                  |
|          |       |                        |                    |                     |                        |                          |                       |                 |                  |                        |                      |                    |                  |

**NOTES:**  
 1-13-14 @ 10:00 commence system operation  
 1-17-14 @ 10:00 system shut down for weekend per BAAQMD Permit Conditions - system off until 3/31/14 due to electrical issues at the site  
 3/3/14 @ 10:00 System Started Back Up  
 3/7/14 - system shut down for weekend per BAAQMD Permit Conditions  
 3/27/14 - System shut down due to high PID readings after MID  
 3/26/15 - System down on arrival; repaired electrical issue and restarted system on 4/17/15  
<sup>1</sup> = system configuration altered to increase vacuum capability.

\*F = degree Fahrenheit      fpm = actual feet per minute      Cross Sectional Area of 2" Pipe = 0.0218 ft<sup>2</sup>  
 in-H2O = inches of water      cfm = actual cubic feet per minute      \*\*Total Flow = Total Velocity \* Area of 2" Pipe

**AEI CONSULTANTS**  
 VAPOR EXTRACTION / BLOWER SYSTEM FIELD DATA SHEET

Site Name: Foothill Square Field Technician: John Sigg  
 Location: 10700 MacArthur Blvd., Oakland Project Manager: Jeremy Smith  
 Project No.: 261829 Conditions: \_\_\_\_\_

| Date     | Time  | INF (SSD) (ppmv) | MID (SSD) (ppmv) | EFF (SSD) (ppmv) | INF (SVE) (ppmv) | MID (SVE) (ppmv) | EFF (SVE) (ppmv) | COMB INF (ppmv) | COMB MID (ppmv) | COMB EFF (ppmv) | Back-Ground |
|----------|-------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|-------------|
| 01/14/14 | 9:10  | 17.4             | 1.4              | 0.2              | 23.2             | 1.8              | 0.2              | --              | --              | --              | 0.0         |
| 01/15/14 | 12:10 | 18.6             | 0.6              | 0.3              | 30.7             | 0.8              | 0.3              | --              | --              | --              | 0.0         |
| 01/16/14 | 8:00  | 15.2             | 0.8              | 0.2              | 27.3             | 0.7              | 0.4              | --              | --              | --              | 0.0         |
| 01/17/14 | 9:15  | 17.7             | 0.8              | 0.2              | 25.1             | 0.6              | 0.4              | --              | --              | --              | 0.0         |
| 03/03/14 | 10:10 | 15.3             | 0.5              | 0.0              | 32.1             | 0.4              | 0.0              | --              | --              | --              | 0.0         |
| 03/04/14 | 14:15 | 13.1             | 0.5              | 0.0              | 28.3             | 0.4              | 0.0              | --              | --              | --              | 0.0         |
| 03/05/14 | 8:45  | 7.3              | 0.9              | 0.0              | 26.6             | 0.6              | 0.0              | --              | --              | --              | 0.0         |
| 03/06/14 | 11:45 | 8.4              | 1.2              | 0.0              | 24.3             | 1.3              | 0.0              | --              | --              | --              | 0.0         |
| 03/07/14 | 13:35 | 7.9              | 1.0              | 0.0              | 25.1             | 1.5              | 0.0              | --              | --              | --              | 0.0         |
| 03/10/14 | 7:50  | 8.9              | 1.0              | 0.0              | 28.3             | 1.5              | 0.0              | --              | --              | --              | 0.0         |
| 03/11/14 | 14:20 | 7.5              | 1.0              | 0.0              | 26.4             | 1.5              | 0.0              | --              | --              | --              | 0.0         |
| 03/12/14 | 13:15 | 8.1              | 1.2              | 0.0              | 24.1             | 1.7              | 0.0              | --              | --              | --              | 0.0         |
| 03/13/14 | 16:00 | 6.2              | 2.1              | 0.0              | 22.0             | 2.3              | 0.0              | --              | --              | --              | 0.0         |
| 03/20/14 | 10:00 | 2.6              | 1.5              | 0.0              | 338.2            | 5.1              | 0.2              | --              | --              | --              | 0.0         |
| 03/27/14 | 13:10 | 2.8              | 1.7              | 0.0              | 295.1            | 12.8             | 0.8              | --              | --              | --              | 0.0         |
| 04/03/14 | 8:45  | 1.5              | 1.6              | 0.0              | 412.0            | 0.5              | 0.0              | --              | --              | --              | 0.0         |
| 04/10/14 | 13:45 | 0.9              | 1.5              | 0.0              | 213.0            | 0.5              | 0.0              | --              | --              | --              | 0.0         |
| 04/16/14 | 9:15  | 1.9              | 1.8              | 0.0              | 78.9             | 13.7             | 0.0              | --              | --              | --              | 0.0         |
| 04/25/14 | 5:40  | 1.5              | 1.9              | 0.0              | 66.4             | 1.8              | 0.0              | --              | --              | --              | 0.0         |
| 05/16/14 | 10:00 | 2.2              | 1.4              | 0.0              | 62.8             | 3.9              | 0.0              | --              | --              | --              | 0.0         |
| 05/23/14 | 8:50  | 0.7              | 0.2              | 0.0              | 50.7             | 0.3              | 0.0              | --              | --              | --              | 0.0         |
| 05/30/14 | 8:45  | 1.2              | 0.2              | 0.0              | 48.2             | 0.3              | 0.0              | --              | --              | --              | 0.0         |
| 06/06/14 | 5:00  | 1.8              | 0.2              | 0.0              | 68.6             | 0.4              | 0.0              | 0.0             | 0.0             | 0.0             | 0.0         |
| 06/08/14 | 11:00 | 1.3              | 0.0              | 0.0              | 67.8             | 4.3              | 0.8              | 0.0             | 0.0             | 0.0             | 0.0         |
| 06/24/14 | 12:00 | 1.5              | 0.0              | 0.0              | 58.3             | 6.2              | 0.9              | 0.0             | 0.0             | 0.0             | 0.0         |
| 07/03/14 | 6:15  | 3.4              | 0.0              | 0.0              | 54.6             | 8.4              | 0.9              | 0.0             | 0.0             | 0.0             | 0.0         |
| 07/10/14 | 7:00  | 2.1              | 0.0              | 0.0              | 43.7             | 10.8             | 1.7              | 0.0             | 0.0             | 0.0             | 0.0         |
| 08/11/14 | 6:15  | 16.3             | 7.4              | 0.0              | 84.5             | 44.5             | 35.8             | 32.7            | 5.1             | 0.0             | 0.0         |
| 09/12/14 | 8:30  | 2.4              | 0.0              | 0.0              | 63.2             | 23.8             | 10.7             | 0.0             | 0.0             | 0.0             | 0.0         |
| 10/14/14 | 10:15 | 15.1             | 2.6              | 0.0              | 78.7             | 17.3             | 5.2              | 3.8             | 0.0             | 0.0             | 0.0         |
| 11/20/14 | 5:00  | 12.7             | 1.8              | 0.0              | 33.9             | 14.8             | 4.7              | 2.3             | 0.0             | 0.0             | 0.0         |
| 12/31/14 | 5:45  | 20.3             | 1.5              | 0.0              | 26.3             | 12.4             | 3.2              | 2.0             | 0.0             | 0.0             | 0.0         |
| 01/14/15 | 7:45  | 1.3              | 1.0              | 0.0              | 48.2             | 13.7             | 3.8              | 2.0             | 0.0             | 0.0             | 0.0         |
| 02/11/15 | 7:45  | 0.9              | 0.0              | 0.0              | 60.2             | 8.3              | 2.6              | 1.0             | 0.0             | 0.0             | 0.0         |
| 03/26/18 | 8:20  | 2.2              | 1.6              | 1.3              | --               | --               | --               | --              | --              | --              | --          |
| 04/20/15 | 6:00  | 18.3             | 1.4              | 1.6              | 21.9             | 6.2              | 1.8              | 2.1             | 0.0             | 0.0             | 0.0         |
| 05/07/15 | 8:20  | 28.6             | 1.6              | 1.5              | 46.1             | 7.4              | 2.1              | 2.3             | 0.0             | 0.0             | 0.0         |
|          |       |                  |                  |                  |                  |                  |                  |                 |                 |                 |             |
|          |       |                  |                  |                  |                  |                  |                  |                 |                 |                 |             |

**NOTES:**

- 3/27/14 : SVE System shut down due to high carbon Readings
- 4/3/14 ; Switched out 1 carbon drum on SVE system; added KMN Drum for Initial cleanup; now KMN/Carbon 1/Carbon 2
- 4/16/14; Switched out 1 carbon drum on SVE system due to high readings; kept KMN in place
- 6/6/14; Modified system design to install carbon drums after system blower (combined INF / MID / EFF)

ppmv = parts per million by volume  
 ppbv = parts per billion by volume  
 nm = not measured

**AEI CONSULTANTS**  
 VAPOR EXTRACTION / BLOWER SYSTEM FIELD DATA SHEET

Site Name: Foothill Square  
 Location: 10700 MacArthur Blvd., Oakland  
 Project No.: 261829

Field Technician: \_\_\_\_\_  
 Project Manager: Jeremy Smith  
 Conditions: \_\_\_\_\_

| Date     | Time  | SS-1<br>(in-H2O) | SS-2<br>(in-H2O) | SS-3<br>(in-H2O) | SS-4<br>(in-H2O) | SS-5<br>(in-H2O) | SS-6<br>(in-H2O) | SS-7<br>(in-H2O) | SS-8<br>(in-H2O) | SS-9<br>(in-H2O) | SS-10<br>(in-H2O) | VM-1<br>(in-H2O) | VM-2<br>(in-H2O) | VM-3<br>(in-H2O) | VM-4<br>(in-H2O) |
|----------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|
| 01/14/14 | 8:45  | 0.012            | 0.016            | 0.049            | 0.121            | 0.124            | 0.021            | 0.026            | 0.006            | 0.007            | 0.042             | --               | --               | --               | --               |
| 01/15/14 | 12:20 | 0.013            | 0.016            | 0.047            | 0.119            | 0.127            | 0.023            | 0.021            | 0.007            | 0.005            | 0.040             | --               | --               | --               | --               |
| 03/11/14 | 14:35 | 0.014            | 0.015            | 0.048            | 0.120            | 0.125            | 0.022            | 0.025            | 0.008            | 0.006            | 0.041             | --               | --               | --               | --               |
| 03/20/14 | 10:20 | 0.013            | 0.014            | 0.048            | 0.110            | 0.121            | 0.021            | 0.024            | 0.006            | 0.004            | 0.040             | --               | --               | --               | --               |
| 05/02/14 |       | 0.22             | 0.050            | 0.144            | 0.121            | 0.177            | 0.048            | 0.104            | 0.008            | 0.023            | 0.373             | +0.397           | +0.453           | 0.141            | +0.042           |
| 05/18/14 | 12:00 | 0.019            | 0.034            | 0.099            | 0.103            | 0.152            | 0.037            | 0.095            | 0.005            | 0.019            | 0.308             | +0.353           | +0.417           | 0.130            | +0.025           |
| 09/12/14 | 14:30 | 0.020            | 0.038            | 0.124            | 0.110            | 0.162            | 0.032            | 0.089            | 0.007            | 0.015            | 0.290             | 0.007            | 0.013            | 0.110            | 0.002            |
| 10/14/14 | 10:30 | 0.023            | 0.032            | 0.112            | 0.107            | 0.148            | 0.033            | 0.090            | 0.006            | 0.020            | 0.298             | 0.010            | 0.018            | 0.121            | 0.013            |
| 11/20/14 | 12:30 | 0.021            | 0.034            | 0.132            | 0.111            | 0.143            | 0.031            | 0.088            | 0.006            | 0.019            | 0.301             | 0.011            | 0.015            | 0.108            | 0.010            |
| 01/14/15 |       | 0.022            | 0.030            | 0.128            | 0.109            | 0.145            | 0.032            | 0.086            | 0.006            | 0.018            | 0.298             | 0.010            | 0.016            | 0.110            | 0.011            |
| 03/26/15 | 8:43  | 0.015            | --               | --               | --               | --               | --               | --               | --               | 0.015            | --                | --               | --               | --               | --               |
| 04/17/15 | 10:30 | 0.019            | 0.031            | 0.130            | 0.110            | 0.142            | 0.030            | 0.088            | 0.005            | 0.017            | 0.302             | 0.011            | 0.015            | 0.109            | 0.010            |
|          |       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                   |                  |                  |                  |                  |
|          |       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                   |                  |                  |                  |                  |
|          |       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                   |                  |                  |                  |                  |
|          |       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                   |                  |                  |                  |                  |
|          |       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                   |                  |                  |                  |                  |

**NOTES:** 3/26/15 - Stores not open

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in-H2O = inches of water      nm = not measured

**AEI CONSULTANTS**  
 VAPOR EXTRACTION / BLOWER SYSTEM FIELD DATA SHEET

Site Name: Foothill Square  
 Location: 10700 MacArthur Blvd., Oakland  
 Project No.: 261829

Field Technician: \_\_\_\_\_  
 Project Manager: Jeremy Smith  
 Conditions: \_\_\_\_\_

| Date     | Time | VM-5<br>(in-H2O) | VM-6<br>(in-H2O) | VM-7<br>(in-H2O) | VM-8<br>(in-H2O) | VM-9<br>(in-H2O) | VM-10<br>(in-H2O) |  |  |  |  |  |  |  |  |
|----------|------|------------------|------------------|------------------|------------------|------------------|-------------------|--|--|--|--|--|--|--|--|
| 05/02/14 |      | 0.317            | 0.086            | 0.076            | 0.014            | 0.126            | 0.102             |  |  |  |  |  |  |  |  |
| 06/18/14 |      | 0.285            | 0.073            | 0.069            | 0.013            | 0.110            | 0.092             |  |  |  |  |  |  |  |  |
| 09/12/14 |      | 0.123            | 0.092            | 0.088            | 0.008            | 0.091            | 0.101             |  |  |  |  |  |  |  |  |
| 10/14/14 |      | 0.209            | 0.088            | 0.073            | 0.010            | 0.103            | 0.090             |  |  |  |  |  |  |  |  |
| 11/20/14 |      | 0.213            | 0.090            | 0.076            | 0.012            | 0.098            | 0.090             |  |  |  |  |  |  |  |  |
| 01/14/15 |      | 0.189            | 0.089            | 0.080            | 0.009            | 0.101            | 0.092             |  |  |  |  |  |  |  |  |
| 04/17/15 |      | 0.192            | 0.090            | 0.077            | 0.009            | 0.098            | 0.092             |  |  |  |  |  |  |  |  |
|          |      |                  |                  |                  |                  |                  |                   |  |  |  |  |  |  |  |  |
|          |      |                  |                  |                  |                  |                  |                   |  |  |  |  |  |  |  |  |
|          |      |                  |                  |                  |                  |                  |                   |  |  |  |  |  |  |  |  |
|          |      |                  |                  |                  |                  |                  |                   |  |  |  |  |  |  |  |  |
|          |      |                  |                  |                  |                  |                  |                   |  |  |  |  |  |  |  |  |
|          |      |                  |                  |                  |                  |                  |                   |  |  |  |  |  |  |  |  |
|          |      |                  |                  |                  |                  |                  |                   |  |  |  |  |  |  |  |  |
|          |      |                  |                  |                  |                  |                  |                   |  |  |  |  |  |  |  |  |
|          |      |                  |                  |                  |                  |                  |                   |  |  |  |  |  |  |  |  |
|          |      |                  |                  |                  |                  |                  |                   |  |  |  |  |  |  |  |  |
|          |      |                  |                  |                  |                  |                  |                   |  |  |  |  |  |  |  |  |
|          |      |                  |                  |                  |                  |                  |                   |  |  |  |  |  |  |  |  |
|          |      |                  |                  |                  |                  |                  |                   |  |  |  |  |  |  |  |  |
|          |      |                  |                  |                  |                  |                  |                   |  |  |  |  |  |  |  |  |
|          |      |                  |                  |                  |                  |                  |                   |  |  |  |  |  |  |  |  |

**NOTES:**  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

in-H2O = inches of water      nm = not measured