



SITE CHARACTERIZATION REPORT

**FORMER VALLCO
SHOPPING MALL
10123 NORTH WOLFE ROAD,
CUPERTINO, CALIFORNIA**

VALLCO PROPERTY OWNER LLC
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EXECUTIVE SUMMARY

On behalf of Vallco Property Owner LLC (Vallco), WSP has prepared this Site Characterization Report (Report) for the former Vallco Shopping Mall property located at 10123 North Wolfe Road in Cupertino, California (Site). This Report evaluates environmental conditions at the Site to determine if conditions are consistent with the planned mixed commercial/residential use of the Site.

In summary, based on the existing data for the Site, and subject to Vallco's compliance with County-approved closure plans during site demolition (discussed below), environmental conditions at the Site are fully consistent with the planned commercial/residential reuse of the Site and no areas of concern were identified that would warrant further investigation or remedial actions.

Previously Identified Environmental Conditions:

The primary areas on the Site that were previously identified in the Phase I Environmental Site Assessment (ESA) reports to contain Recognized Environmental Conditions (RECs) or potential environmental concerns are the following:

Former Sears Automotive Center:

REC 1 - The potential that a 1,000-gallon waste oil underground storage tank (UST) may be present on the west side of the Sears Center building.

REC 2 - The presence of an oil-water separator and acid neutralization chamber on the east side of the Sears Center building.

REC 3 - Vehicle lift components remain in the ground within the northern portions of the Sears Center.

REC 4 - In 1986, Sears arranged for the removal of a 500-gallon UST, but no details regarding this UST were identified.

Historical Agricultural Use:

REC 5 - There is a potential that residual pesticides from agricultural practices could remain in Site soil. If present, this soil may require appropriate management.

REC 6 - Soil adjacent to historical farmhouse buildings may have been impacted with lead-containing paint or pesticides. There is a potential that residual lead and pesticide concentrations could remain in On-Site soil near these structures.

Former J.C. Penney Automotive Facility: The four historical groundwater monitoring wells are no longer in use and will need to be properly destroyed.

East and West Mall Buildings: The Mall contained elevators, emergency generators, mechanical equipment, trash compactors, maintenance storage areas, and chemical storage areas consistent with typical Mall operations.

Resolution of RECs 1, 4, 5 and 6:

To address RECs 1,4,5 and 6 noted above, three phases of soil investigation (2016, 2018, and 2019), a ground penetrating radar (GPR) survey, and a test pit investigation were performed (2019). A total of 87

soil samples were analyzed from 29 borings taken at various depths across the Site. No metals (except cobalt), total petroleum hydrocarbons (TPH), semi-volatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAHs), or herbicides and pesticides (except dieldrin) were detected in any of the samples at concentrations that exceeded their respective residential screening levels. For dieldrin, the 95% upper confidence level of the mean dieldrin concentration was below the residential screening levels. The detection of cobalt at the concentration of the screening levels is isolated to only one sample of the 102 collected indicating there is no evidence to suggest the widespread presence of cobalt at the Site above applicable screening levels. Overall, the data do not indicate any significant impacts to soil at the Site. More specifically, Site soils are not impacted by pesticides, arsenic, or lead from past agricultural operations at the Site, thereby addressing RECs 5 and 6.

To address the possibility that any USTs remain onsite, as noted in RECs 1 and 4, WSP performed a geophysical GPR survey on January 25, 2019 at and around the Sears Center. The survey showed no evidence of any underground tanks on the west or east sides of the Sears automotive building. Additionally, test pits were advanced on March 25, 2019 around a concrete box that was suspected to be an access port to a former UST without closure documentation. No UST was found. Together, the geophysical survey and test pits confirm that no USTs remain in the Sears Center and resolve RECs 1 and 4.

Resolution of RECs 2 and 3, and Remaining Potential Environmental Concerns:

The remaining potential environmental concerns, including RECs 2 and 3, are most efficiently addressed as part of the demolition of existing structures and redevelopment activities and will be addressed at that time. Each is discussed below and will be specifically addressed during the referenced demolition and development activities.

- **SCCFD Closure Plans**

The Santa Clara County Fire Department (SCCFD) requires implementation of an approved closure plan for the Sears Automotive Center and J.C. Penney Automotive Facility. A closure plan for the Sears Automotive Center was submitted to the SCCFD on March 25, 2019 and approved on April 11, 2019. The approved closure plan specifically address RECs 2 and 3, relating to the remaining presence of an oil-water separator, acid neutralization chamber, hydraulic lifts, and associated piping. The approved closure plan likewise addresses any risks associated with residual building materials, including the battery storage area.

In addition to the closure plans for the two previous automotive centers, the three emergency generators and the twenty elevators located across the Mall have been or will be closed under closure plans prepared for and approved by the SCCFD, resolving these potential environmental concerns.

Lastly, the planned development will require excavation of soil to depths of 20 to 30 feet below ground surface (ft-bgs) across most of the Site. If any residual stained soil or potential contamination is identified during demolition and redevelopment, such soil will be excavated and disposed of at a permitted, off-site disposal facility.

- **Abandonment of Groundwater Monitoring Wells**

The four groundwater monitoring wells located on the J.C. Penney premises will be located and abandoned under a permit from the Santa Clara Valley Water District (SCVWD).

- Building Demolition

Before conducting any renovation or demolition activities that might disturb potential asbestos, light fixtures, or painted surfaces, Vallco will ensure that it complies with all requirements for management and abatement of asbestos-containing materials, proper handling and disposal of fluorescent and mercury vapor light fixtures, building materials containing polychlorinated biphenyls (PCBs), and with all applicable requirements regarding lead-based paint.

1 INTRODUCTION

On behalf of Vallco, WSP has prepared this Site Characterization Report for the former Vallco Shopping Mall property located at 10123 North Wolfe Road in Cupertino, California (Site). This Report evaluates environmental conditions at the Site to determine if conditions are consistent with the planned mixed commercial/residential use of the Site.

1.1 PURPOSE

This Report evaluates environmental conditions at the Site to determine if conditions are consistent with the planned mixed commercial/residential use of the Site. The Report considers and specifically addresses each of the RECs identified in prior Phase I Environmental Site Assessments (Phase I ESAs) prepared for the Site, including the Phase I ESA prepared by WSP in 2014 and updated in 2016 (WSP 2014 and 2016, respectively), and the Phase I ESA prepared by Cornerstone Earth Group in 2018 (Cornerstone, 2018), and presents data obtained by WSP during soil and related investigations performed in 2018 and 2019.

The Report includes the following:

- A description of the site use history and planned development,
- Presentation and evaluation of results from soil investigations conducted by Geosphere Consultants, Inc. (Geosphere) (2016) and WSP (2018 and 2019), and
- Analyses of existing data, including recent testing performed by WSP, to address the RECs and potential open issues identified in the existing Phase I ESAs.

2 BACKGROUND

2.1 SITE DESCRIPTION AND PREVIOUS USE

The Site is located at 10123 North Wolfe Road in Cupertino, California (Figure 1). The Site is owned by Vallco and is approximately 50 acres that is occupied by the mostly vacant Vallco Shopping Mall (the Mall). The Mall consists of one irregularly shaped two-story, steel- framed building (connected by bridge across Wolfe Road) and two small detached buildings. The two-story building is part of the enclosed former shopping Mall with 1,115,000 square feet of floor space that was constructed between 1974 and 1979 and renovated in 1988 and 2006. The Mall had approximately 110 tenant spaces and was anchored by Macy's, Sears, and J.C. Penney. The two detached buildings included in the Mall were located north and northeast of the shopping mall at 10343 North Wolfe Road, Cupertino, California (formerly TGI Fridays) and 10330 North Wolfe Road, Cupertino, California (formerly Alexander's Steakhouse). There were former underground storage tanks at the Sears Automotive Center and J.C. Penney's (Figure 2 and Figure 3, respectively), which were removed under regulatory oversight in 1994 and 1999, respectively.

A public ice rink and cooling tower are in the northeastern portion of the Mall. Two three-level covered parking garages were located on the north and west sides of the Mall, respectively. A separate parking garage is located north of the former Macy's store. Outdoor asphalt-paved parking areas were located on the west, south, and east, adjacent to Sears, on the north and on the south side of J.C. Penney, on the north side of TGI Fridays, and on the north side of Alexander's Steakhouse (Figure 1). Today the Mall is mostly vacant, although existing tenants remain, including the ice rink, a bowling alley, a restaurant and a fitness facility.

The area surrounding the Site is residential and commercial. Prior to construction of the Mall, the Site contained orchards since at least 1939. Based on review of historical aerial photographs, the southeastern portion of the Site included buildings that appear to have been associated with the former agricultural activities (Figure 1). The Site was used as a retail shopping mall since at least 1979.

2.2 GEOLOGY AND HYDROLOGY

The Site is located in the Santa Clara Valley, and is underlain by unconsolidated alluvial sediments, consisting of fine-grained (low permeability) deposits interbedded with coarse-grained (higher permeability) sediments. Soils encountered during WSP's soil investigation in October 2018 consist predominately of clays followed by silty sands or poor and well graded sands. Fill material appeared as lean clays and extended between five to ten ft-bgs and in some locations, as deep as 20 ft-bgs.

Based on information available in the California Geotracker database, a nearby site (TOSCO Global ID: TO608575840) measured groundwater ranging historically from 70.86 ft-bgs (May 2006) to 90.70 ft-bgs (December 2008) with a general groundwater flow direction of northeast. Cornerstone's Phase I ESA Report (Cornerstone, 2018) identifies this groundwater zone as being perched and found only intermittently across the Site between depths of 80 and 95 ft-bgs. Groundwater elevations measured from previous on-site groundwater monitoring wells located at the former J.C. Penney automotive repair facility ranged from 120 to 140 ft-bgs between 1990 and 1993.

2.3 SITE USE HISTORY

WSP performed a Phase I ESA of the Site, documented in a Report dated January 7, 2014 and updated in a letter report dated January 11, 2016, that summarizes the historical uses of the property. Historical uses that may have impacted soil or groundwater beneath the Site are summarized in sections 3.3.1 through 3.3.4 below. Additionally, sections 3.3.1 through 3.3.3 include the RECs identified in Cornerstone's Phase I ESA Report (Cornerstone, 2018). In addition to the identified RECs, Cornerstone and WSP identified several potential environmental concerns that WSP also addresses in this Report.

2.3.1 FORMER SEARS AUTOMOTIVE CENTER

A Sears Automotive Center was constructed at the property in 1970 on the southwest side of the Mall property and was referenced as a Leaking Underground Storage Tank (LUST) site on the state Geotracker website. Existing documentation contained in the Geotracker website shows the removal of two 12,000-gallon and two 5,000-gallon gasoline USTs, one 550-gallon UST, and one 550 UST and product dispensers from the Sears Automotive Center site in 1985. Dispenser islands and product lines were removed from the site in 1994. Seven borings were installed and sampling was conducted in soil and groundwater in 1999 to assess hydrocarbon concentrations at the site. Groundwater was not encountered in any of the borings to a depth of 44 ft-bgs. Concentrations of ethylbenzene, total xylenes, and lead were reported below regulatory action levels and the Santa Clara Valley Water District (SCVWD) granted case closure for the site on December 6, 1999. The SCVWD concluded that residual contamination in the subsurface from the former USTs is minimal. SCVWD's closure report is included in Appendix A.

Cornerstone's Phase I ESA identified four RECs in association with the former Sears Automotive Center, including two relating to the former USTs.

- REC 1 - Documents reviewed during Cornerstone's study, as well as their observations at the Site, indicate that a 1,000-gallon waste oil UST may be present on the west side of the Sears Automotive Center building. No documents pertaining to the removal of the UST or the evaluation of soil quality at the UST location were identified. There is a potential that this UST, if present, may have impacted soil, soil vapor and/or ground water at the Site.
- REC 2 - An oil-water separator (connected to floor drains within the building) and an acid neutralization chamber (connected to drains within a former battery storage room and located outside the southeast corner of the building) were identified during their study on the east side of the Sears Automotive Center building (Figure 2). There is a potential that these features may have impacted soil, soil vapor and/or ground water at the Site.
- REC 3 - Vehicle lift components (e.g., outer lift cylinder casings and possibly associated hydraulic fluid piping and reservoirs) remain within the northern portions of the Sears Automotive Center that is not underlain by the basement. There is a potential that these features may have impacted soil and/or ground water at the Site.
- REC 4 - In 1986, Sears, Roebuck and Company established a contract with K.E. Curtis Construction Company for the removal of a 500-gallon UST. No details regarding the contents or location of the UST were described in the contract, and no other records pertaining to a UST

removal at Sears in 1986, or later, were identified. There is a potential that this unidentified UST may have impacted soil, soil vapor, and/or ground water at the Site.

- Details concerning measures to address these RECs are contained in Sections 4.2, 4.3, 5.1, and 5.2 of this report.

2.3.2 HISTORICAL AGRICULTURAL USE

Based on a review of historical aerial photographs, the area surrounding the Site was developed with orchards, agricultural land, and farmhouses before construction of the initial Mall buildings in 1974-1979.

Cornerstone identified two RECs associated with the past agricultural use of the Site.

- REC 5 - There is a potential that residual pesticides from agricultural practices could remain in Site soil. If present, this soil may require appropriate management.
- REC 6 - Soil adjacent to structures that may have been painted with lead-containing paint (i.e. historic farmhouse buildings) can become impacted with lead as a result of the weathering and/or peeling of painted surfaces. Soil near wood framed structures also can be impacted by pesticides historically used to control termites. There is a potential that residual lead and pesticide concentrations could remain in On-Site soil resulting from the prior residence and outbuildings previously located on the southeast portion of the Site.

Details concerning measures to address RECs 5 and 6 are contained within Section 5.1 of this report.

2.3.3 FORMER J.C. PENNEY AUTOMOTIVE CENTER

J.C. Penney operated an automotive maintenance facility from the Mall's construction circa 1974 until 1985. J.C. Penney, located on the east side of the Mall property, was referenced as a LUST site in the Cornerstone Phase I report. Two USTs, one 350-gallon diesel tank and one 350-gallon waste oil tank, were removed from the site on November 15, 1989. Three hundred and three tons of contaminated soil were removed from the UST excavations. A 750-gallon waste oil/water sump was closed in-place on January 21, 1994. Soil samples were collected beneath the oil/water sump prior to the closure; no contaminants of concern (COCs) were detected. Groundwater monitoring results collected from four monitoring wells installed on the J.C. Penney site indicated that there were no detectable levels of target chemical constituents in groundwater. The site was granted case closure on September 1, 1994 by the SCVWD; a copy of the closure report is included as Appendix B.

Cornerstone identified REC 3 (vehicle lift components remaining in ground) as also applying to the J.C. Penney Automotive facility. Cornerstone identified one additional environmental concern associated with the J.C. Penney facility:

- Four historic groundwater monitoring wells will need to be properly destroyed as they are no longer in use. The Cornerstone Report anticipated that this will likely occur as part of the

demolition/redevelopment activities. The location of the groundwater monitoring wells is detailed in Figure 3.

Details concerning measures to address each of these concerns are contained in Section 5.2 of this report.

2.3.4 VALLCO MALL – EAST AND WEST BUILDINGS

The Vallco Mall is two stories and contains 110 retail spaces that were used for a variety of purposes from retail and recreation (ice-skating) to restaurants. As such, the Mall contained elevators, emergency generators, mechanical equipment, trash compactors, maintenance storage areas, and chemical storage area in association with typical Mall operations.

Cornerstone and WSP each identified the following environmental concerns in association with the planned demolition of the existing Mall structures.

- Prior to the demolition of the twenty elevators located across the Site, a closure plan will need to be submitted and approved by the Santa Clara County Fire Department (SCCFD).
- Three emergency generators were identified at the Site. The generators will need to be removed in accordance with the approved closure plan before demolition activities occur.
- Due to the age of the Mall buildings, there is a potential that building materials may contain asbestos, lead based paint, PCBs, and fluorescent or mercury vapor light fixtures. Before conducting any renovation or demolition activities that might disturb potential asbestos, light fixtures, or painted surfaces, management and abatement of asbestos-containing materials, proper handling and disposal of fluorescent and mercury vapor light fixtures, PCB-containing building materials, and compliance with all applicable requirements regarding lead-based paint.

These concerns are addressed in Section 5.2 of this report.

2.4 SITE FUTURE USE

The Site is anticipated to be used for commercial and residential buildings, subsurface and surface parking areas, and landscaping. In September 2018, the City of Cupertino approved two separate projects for the Site, one approval pursuant to newly enacted legislation, SB 35, and another approval as a Specific Plan resulting from a community process. Under the SB 35 plan, the Site is anticipated to include 2,402 residential units, up to 485,912 square feet of retail/entertainment uses, and 1,981,447 square feet of office uses. Approximately 10,500 parking spaces will be provided in both above-and below ground structures. The plan includes two publicly accessible town squares and a connected green roof. Under the Vallco Town Center Specific Plan, the site would include up to 2,668 residential units, a 339 room hotel, 485,000 square feet of retail/entertainment uses, and 1,500,000 square feet of office uses (along with 250,000 square feet of office amenity space). This plan would also include above and below ground parking, public plazas, a town square, and a green roof.

Relevant to this investigation, planned development includes extensive subsurface parking that will require excavation of soil to a depth of 20 to 30 ft-bgs across much of the Site (Figure 4). As discussed

in Section 3.2 above, the depth to groundwater is approximately 80 to 90 feet bgs; therefore, groundwater will not be encountered during the Site redevelopment activities.

2.5 PLANNED DEMOLITION

Pre-redevelopment activities will include the demolition of the Mall building structures, including foundations and associated subsurface utilities, and all associated parking garages/structures. The Site demolition will occur in phases, as documented in Figure 5.

3 SITE ENVIRONMENTAL INVESTIGATIONS

3.1 SITE SOIL INVESTIGATIONS

In addition to the investigations and Site data associated with the regulatory closure of the two former automotive facilities (Appendices A and B), three phases of soil investigations were conducted to assess environmental site conditions in connection with the planned development. Table 1 provides a summary of the sampling locations, rationale, and analyses performed.

3.1.1 2016 GEOSPHERE INVESTIGATION

In September 2016, Vallco retained Geosphere to conduct a subsurface investigation to collect various discrete soil samples at the Site as part of an accompanying geotechnical investigation. Geosphere drilled a total of eight borings using a mobile direct push GeoProbe® DT-22. Specifically, boring E-1 went to a maximum depth of 50 feet, E-2 to a depth of 45 feet, E-3 to a depth of 35 feet, and E-4 through E-8 to a depth of 20 feet each. The soil was continuously sampled in five foot intervals, with discrete samples being collected at depths of 1', 5', 10', 15', 20', 30', 40', and 50', where applicable (Table 1). Sample nomenclature was marked as boring identification (E1 through E8) followed a depth designation (1 through 8), the depth designation of 1 corresponded to 1 ft-bgs, the depth designation of 2 corresponded to 5 ft-bgs, etc. Samples were collected for volatile organic compounds (VOCs) by EPA method 8260B; semi-volatile organic compounds (SVOCs) by EPA method 8270D; polycyclic aromatic hydrocarbons (PAHs) by EPA method 8270D selected ion monitoring (SIM); total petroleum hydrocarbons (TPH) as gasoline (TPH-g), as diesel (TPH-d), and as motor oil (TPH-mo) by EPA Method 8015C; pesticides by EPA Method 8081; polychlorinated biphenyls (PCBs) by EPA method 8082A; title 22 metals; 2,3,7,8-tetrachlorodibenzodioxin (TCDD) by method 1613B; and asbestos by method 435. Following the completion of drilling, the boreholes were backfilled using grout and excess auger cuttings. The locations of the Geosphere borings are included on Figure 1 and results are presented in the attached Data Tables. The Geosphere report is included as Appendix C.

3.1.2 2018 WSP INVESTIGATION

In October 2018, Vallco retained WSP to conduct a further subsurface investigation at the Site to provide additional information concerning subsurface conditions across the entire Site. The investigation included the installation of 15 borings, each to a depth of 20 ft-bgs as, depicted on Figure 1. Seven borings were concentrated in the area of the Sears Automotive Center to determine if there were any residual effects from the former underground fuel and motor oil tanks and other previous operations at the Sears Center.

DRILLING PROCEDURES

A GeoProbe® 7822DT direct push drill rig run by an external generator or a GeoProbe® 7800 truck mounted direct push drill rig was used to advance each boring down to the targeted depth of 20 ft-bgs. Each drill rig was equipped with a 5-foot Macro Core® continuous core sampler with acetate sleeves, which created a 2.5-inch diameter hole. All drilling was conducted by Trinity Drilling, Inc. of Santa Cruz, California, a C-57 licensed driller.

The recovered soil core from each boring was visually logged by a WSP geologist using the Unified Soil Classification System (USCS). Soil cores were then initially screened for VOCs by a photoionization detector (PID) to determine if sample depths should be adjusted to intercept potential areas of contamination. Soil samples were then collected into laboratory-supplied containers and submitted to the lab for analysis. At the completion of each boring location, borings were backfilled with Portland type I/II cement.

DECONTAMINATION PROCEDURES

All subsurface drilling equipment was decontaminated before use at the Site. The drillers utilized wet techniques to decontaminate equipment. Disposable equipment intended for one-time use was not decontaminated, but was packaged for appropriate disposal.

The sampling rod went through a wet decontamination between each boring location and between each boring run advancement. The shoe of the sampling rod went through a wet decontamination after each run and between boring locations. A wet decontamination was completed by scrubbing the equipment in a non-phosphate detergent followed by two separate tap-water rinses.

INVESTIGATION DERIVED WASTE

All soil cuttings and decontamination and rinse water were contained in separate Department of Transportation authorized drums. The drums were temporarily placed in a secure area on-site. The waste was disposed of in accordance with applicable local, state, and federal regulations.

SOIL SAMPLE COLLECTION AND ANALYSIS

During soil boring advancement, soil samples were collected from five depths of approximately 1, 5, 10, 15, and, 20 ft-bgs as shown in Table 1. The final soil sample collection depths varied slightly based on PID detections during initial screening.

Soil samples were analyzed by Enthalpy Analytical (Enthalpy) of Berkley, California excluding herbicides, whose analysis was subcontracted to Eurofins of Garden Grove, California. Enthalpy and Eurofins are California ELAP certified laboratories. Samples were collected for Title 22 metals by EPA Method 6010B; TPH-g, TPH-d, and TPH-mo by EPA Method 8015M; SVOCs and PAHs by EPA Method 8270; herbicides by EPA Method 8151; and pesticides by EPA Method 8081. All soil sample locations and depths were analyzed for Title 22 metals and TPH-g,-d, and -mo.

Soil samples collected at depths of approximately 1 and 5 ft-bgs were additionally analyzed for SVOCs, PAHs, herbicides, and pesticides at all locations. Additional soil samples collected for SVOCs, PAHs, herbicides, and pesticides at approximate depths of 10, 15, and 20 ft-bgs, were submitted to the

laboratory and placed on hold for analysis pending results of the shallower soil samples. All soil samples were collected into laboratory supplied, unpreserved 16 ounce (oz.) or 4 oz. clear jars.

All soil samples collected during the investigation were classified in the field according to the USCS. To aid in the estimation of the percentages of sand and fine-grained material (i.e. silt size and clay-sizes particles) in the soil, the geologists sieved the samples through a #200 mesh field sieve which retains the sand-size material and allows the fine-grained particles to pass.

QUALITY CONTROL METHODOLOGY

An equipment blank was collected once during the soil sampling event for quality control (QC) purposes (EB-1). The equipment blank was prepared by pouring store-bought distilled water on and through the shoe of the sampling rod and into sample containers for SVOC and TPH-g,-d, and -mo analysis. No compounds were detected at concentrations greater than laboratory reporting limits in the equipment blank.

A QC report was additionally provided by the laboratory that includes method blank summaries, blank spike and surrogate recovery summaries, laboratory control sample/laboratory control sample duplicate summaries, and matrix spike/matrix spike duplicate (MS/MSD) summaries. The analytical reports for soil samples are provided in Appendix D.

3.1.3 2019 WSP SUPPLEMENTAL INVESTIGATION

On January 10, 2019, WSP collected additional soil samples from seven boring locations on the south side of the Mall property, east of the former Sears Center (Figure 1), to address the potential for lead, pesticide, or arsenic contamination around former farmhouse buildings. Samples were collected by hand auger at the following depths, 0.5, 1, 2, and 3 ft-bgs (Table 1). All samples were analyzed for pesticides (by EPA Method 8081A), and lead and arsenic (by EPA Method 6020). All re-usable sampling equipment (i.e. hand auger) was decontaminated prior to use at the Site and between boring locations. Soil samples were collected directly into laboratory-supplied clear jar containers and submitted under chain of custody procedures to McCampbell Analytical Inc. of Pittsburg, California, a commercial analytical laboratory certified by the State of California Department of Health Services. A QC report was provided by the laboratory that includes method blank summaries, blank spike and surrogate recovery summaries, laboratory control sample/laboratory control sample duplicate summaries, and matrix spike/matrix spike duplicate (MS/MSD) summaries. The analytical report for this supplementary soil sampling is provided in Appendix E.

3.2 EVALUATION OF SOIL INVESTIGATION RESULTS

The results for Metals, TPH, SVOCs, Herbicides, and Pesticides from both the Geosphere investigation (samples are prefixed by E1 to E8 followed by designation (1 to 8) as to depth of sample collection) and the WSP investigations (prefixed by S-1 to S-8, W1-to W-6 and E-2 followed by a designation noting the sample depth) are included the Data Tables.

All analytical results have been compared to Environmental Screening Levels (ESLs) for residential human health risks as established by the San Francisco Regional Water Quality Control Board (RWQCB), revised January 2019, associated with residential direct soil exposure. Additionally,

analytical results have been compared to Regional Screening Levels (RSLs) for human health risks as established by the Department of Toxic Substance Control (DTSC), revised November 2018.

No metal (excluding cobalt), TPH, SVOC, PAH, or herbicides were detected in any of the samples at concentrations that exceeded their respective residential screening levels. In addition, no TPH, SVOC, PAH, herbicides, or pesticides were detected in any sample at concentrations that exceeded the RWQCB gross contamination levels or residential odor nuisance levels. Additionally, results from samples collected for PCBs, asbestos, and 2,3,7,8-TCDD by Geosphere were all below laboratory reporting limits. Geosphere also analyzed samples for VOCs, of which only 2- Butanone (MEK) and methylene chloride were detected above laboratory reporting limits. Concentrations of methylene chloride did not exceed the ESL or RSL.

A total of 60 samples were analyzed for pesticides from 32 samples collected by Geosphere (8 borings) and 28 samples collected by WSP (21 borings) at various depths across the Site. The results of those samples were then compared to current ESLs for residential human health risks and RSLs for human health risks. Two of the 60 samples analyzed for pesticides contained dieldrin that exceeded the residential RSL. One of those samples also exceeded the residential ESL. There is no evidence to suggest the widespread presence of dieldrin at the Site above applicable screening levels. A 95% upper confidence level of the mean (95% UCL) dieldrin concentration was calculated using EPA's ProUCL Version 5.1. The 95% UCL for dieldrin of 2.1 µg/kg is well below both the ESL (38 µg/kg) and RSL (34 µg/kg).

Cobalt was detected in one out of the 102 samples analyzed for the compound at a concentration of 23 mg/kg, which is the same concentration as the residential ESL and RSL. The Kearney Foundation of Soil Science reported in 1996 (Kearny, 1996) that soil samples collected in northern California frequently contain higher concentrations of cobalt which they attributed to ultramafic and volcanic rocks found in the area. The detection of cobalt at the concentration of the screening levels is isolated to only one sample of the 102 collected indicating there is no evidence to suggest the widespread presence of cobalt at the Site above applicable screening levels.

Based on the above results for dieldrin and cobalt and the fact that no other analytes exceeded residential screening levels, WSP finds that historical agricultural operations at the Site did not impact soils with pesticide, arsenic, or lead contamination as identified in RECs 5 and 6.

3.3 SEARS AUTOMOTIVE CENTER INVESTIGATION

To address the possibility that any USTs remain onsite, as noted in RECs 1 and 4, WSP performed a geophysical GPR survey on January 25, 2019 around the former Sears Center. The survey consisted of a metal sweep performed with a Fisher TW-6 MiScope to determine the presence of any metal pipes leading to or from the suspected area of the former tanks and a GPR scan performed with a MALA easy locator to determine if there were any indications of an underground storage tank present beneath the ground surface. The survey showed no evidence of any underground tanks on the west or east sides of the Sears automotive building. The survey report is included as Appendix F.

In addition to the GPR survey, during WSP's 2018 soil investigation, one boring (S-6-R) was positioned directly adjacent to a concrete box suspected to be an access port to the suspect 1,000-gallon (or 500

gallon) UST(s). The drill rig was only able to advance to approximately 11 ft-bgs, where refusal occurred. The boring consisted mostly of pea gravel, a common backfill material. The drillers suspected that refusal was due to presence of concrete. It is noted in Blaine Tech Services (BTS) sampling report during tank removal of the other USTs at the Sears Automotive Center (BTS, 1985) that the tanks were mounted on concrete anchoring slabs. There is no documentation that the concrete anchoring slabs were removed during UST removal and therefore were likely left in-place when the pits were backfilled, explaining the presence of concrete at 11 ft-bgs where refusal was met.

Although the GPR survey did not detect any tank features, at the request of Vallco, WSP excavated four test pits around a square concrete box that was suspected to be a potential access port for a UST. The concrete box was removed and the area and box were inspected. The concrete box was determined to be an abandoned storm drain inlet. The basis for this was primarily because a plastic pipe led from the box to an existing storm drain inlet approximately 1 foot northwest. The piping had concrete within it leading to the conclusion that the storm drain was abandoned by backfilling with concrete. No odor or staining was noted and there were no signs of access ports to a UST.

Another test pit continued beneath the area of the concrete box. At approximately 3 feet below ground surface (ft-bgs) a metal pipe was encountered that aligned in an east- west direction. In order to determine the extent of the metal pipe, another test pit was dug approximately five feet west of the pit that first found the pipe, and this second pit encountered the end of the pipe. The end of the pipe was approximately 33 feet west of the Sears Automotive Building. The pipe end was clearly capped off. Based upon the Sears Automotive Center Case Closure report, prepared by the SCVWD (SVWD,1999), this pipe was determined to be the pipe that led to the former used motor oil tank on the west side of the Sears Automotive building.

To ensure no UST was buried in place near the end of the capped pipe, additional test pits were placed approximately 5 feet north and 5 feet south of the pipe end. No UST or additional piping was observed. During the soil disturbance activities, no odor or staining was noted. All of the above data confirms that the suspect UST is no longer present at the Site, thereby addressing RECs 1 and 4.

Two soil samples were collected under the observed pipe, one beneath a section of the exposed pipe closest to the building and one beneath the pipe end cap. Samples were submitted to Enthalpy and were analyzed for TPH-mo by EPA method 8015B. TPH-mo was detected at 74 mg/kg in the sample collected beneath the pipe cap. TPH-mo was not detected in the other sample collected beneath the pipe. The detection of TPH-mo beneath the pipe cap is far below the residential ESL of 12,000 mg/kg and the gross contamination level of 5,100 mg/kg and is considered residual TPH-mo that may have resulted when the pipe was cut and capped. Sample results are contained in Appendix G.

4 ANALYSIS AND CONCLUSIONS

4.1 SOIL ANALYTICAL RESULTS

In summary, laboratory results for all analytes show no evidence of contaminants of concern at the Site at concentrations above residential screening levels. No areas of concern were identified that would warrant remedial actions to be taken or further investigation.

Of note, there was no evidence of any impacts/exceedances of ESLs for TPH (or any other constituents) in the samples from seven borings in proximity to the former Sears Automotive Center. There is also no evidence of any impacts/exceedances of ESLs or RSLs for pesticides, lead or arsenic in shallow soil samples collected throughout the Site in the footprint of historical orchards or from the seven hand-augered borings in proximity to historical farm house buildings. There were two samples out of 60 samples collected with results that exceeded the RSL (34 µg/kg) for dieldrin; however, the 95% UCL for dieldrin results from all the samples collected was 2.1 µg/kg, far below the residential ESL and RSL.

The sampling performed and resulting data summarized in this report specifically address and resolve RECs 1,4, 5 and 6 identified in Cornerstone's Phase I ESA, as well as the RECs previously identified by WSP. Soil sampling for pesticides, lead, and arsenic showed that there is no residual soil contamination from historical agricultural land use or residual contamination from former lead-based paint suspected to have been used on farmhouse buildings, which resolves RECs 5 and 6 in the Cornerstone Phase I ESA report.

Additionally, there were no detections of TPH over ESLs or RSLs in samples collected around the former Sears Automotive Center (Borings S-1 through S-7) or in samples collected around the former J.C. Penney Automotive Center (Boring E-2). Based on the historical operations in these two former UST areas and, as recommended in WSP's Phase I ESA and update letter, subsurface disturbance will be performed with care and an awareness of the past USTs in these areas. The GPR survey and the test pits support the conclusion that there are no existing or suspect former USTs remaining in the former Sears Automotive Center area, thus addressing RECS 1 and 4 in the Cornerstone Phase I report.

Finally, the closure activities relating to the Sears and J.C. Penney premises will be monitored and coordinated with the SCCFD to ensure that no aboveground residual hazardous materials or contaminants remain following closure. Any remaining oil-water separator, acid neutralization chamber, hydraulic lifts, petroleum fluid pipelines, battery storage area, and asbestos containing material will be properly abandoned or removed as part of the closure activities. During excavation of the soil in these potential areas of concern for re-development activities, an Environmental Professional will be present to observe underlying soil for evidence of potential impacts and, if observed, collect soil samples in accordance with a soil management plan (SMP). As discussed previously, the planned development will require excavation of soil to depths of 20 to 30 feet bgs across most of the Site. If any residual stained soil or potential contamination is identified during demolition and redevelopment, such soil will be excavated and disposed of at a permitted, off-site disposal facility.

4.2 REMAINING ENVIRONMENTAL ITEMS

Investigative efforts have resolved RECs 1, 4, 5, and 6. The remaining RECs 2 and 3 and the environmental issues related to re-development and demolition activities will be addressed, under SCCFD oversight, at that time. These issues consist of the following:

SCCFD CLOSURE PLANS

The SCCFD requires implementation of an approved closure plan for the former Sears Automotive Center due to the presence of an oil-water separator, acid neutralization chamber, hydraulic lifts, petroleum fluid pipelines, battery storage area, and lead containing materials, as well as for the J.C. Penney former automotive center due to the presence of hydraulic lifts and associated piping. A closure plan for the former Sears Automotive Center was submitted to the SCCFD on March 25, 2019 and approved on April 11, 2019 (Appendix H). During the demolition of the structures and removal of the paved surfaces, the equipment, piping, and materials will be removed and the soils beneath them will be sampled to ensure that there have been no releases of any hazardous materials. These closure activities relating to the Sears and J.C. Penney premises will be monitored and coordinated with the SCCFD to ensure that no aboveground or belowground residual hazardous materials or contaminants remain following closure. These activities will address RECs 2 and 3.

In addition to the closure plans for the two former automotive centers, the three emergency generators and the twenty elevators located across the Mall have been or will be closed under closure plans approved by the SCCFD. A closure plan for the west side of the mall has been approved and partially implemented. This closure plan addresses one of the three generators and all the elevators in the West side of the mall. The closure plans for the Eastern portion of the Mall (to be submitted to SCCFD for approval and will resolve the remaining identified environmental concerns.

ABANDONMENT OF GROUNDWATER MONITORING WELLS

The four groundwater monitoring wells located on the J.C. Penney premises will be located and abandoned in accordance with the SCVWD Well Standards. A permit will be obtained from the SCVWD prior to the abandonment. The preferred method of abandonment will be to drill out the wells to the total depth of the well and backfill with grout, as appropriate and necessary. This action will resolve this environmental concern.

DEMOLITION OF BUILDINGS

Before conducting any renovation or demolition activities that might disturb potential asbestos, light fixtures, or painted surfaces, Vallco will ensure that it complies with all requirements for management and abatement of asbestos-containing materials, proper handling and disposal of fluorescent and mercury vapor light fixtures, PCB-containing building materials, and with all applicable requirements regarding lead-based paint. Testing for asbestos, lead, and PCB containing material has been implemented in the west side of the Mall as part of the SCCFD closure plan. Compliance with these required and standard procedures will address these identified environmental concerns.

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ACRONYMS

µg/l	micrograms per liter
mg/kg	milligram per kilogram
MDL	method detection limit
QA/QC	quality assurance/quality control
Regional Board	San Francisco Bay Regional Water Quality Control Board
RL	reporting limit
SVOCs	semi-volatile organic compounds
TPH	total petroleum hydrocarbons
TPH-d	total petroleum hydrocarbons as diesel
TPH-g	total petroleum hydrocarbons as gasoline
TPH-mo	total petroleum hydrocarbons as motor oil
PAH	Polycyclic aromatic hydrocarbons
TCDD	Tetrachlorodibenzodioxin
UST	underground storage tank
LUST	leaking underground storage tank
WSP	WSP USA, Inc.
SCCFD	Santa Clara County Fire Department
REC	Recognized Environmental Condition
Ft-bgs	Feet below ground surface
ESL	Environmental Screening Level
RSL	Regional Screening Level
ESA	Environmental Site Assessment
COC	Contaminants of Concern
USCS	Unified Soil Classification System
GPR	Ground Penetrating Radar
SMP	Soil Management Plan
PCB	Polychlorinated Biphenyl
SCVWD	Santa Clara Valley Water District
EPA	Environmental Protection Agency
PID	Photoionization detector

FIGURES



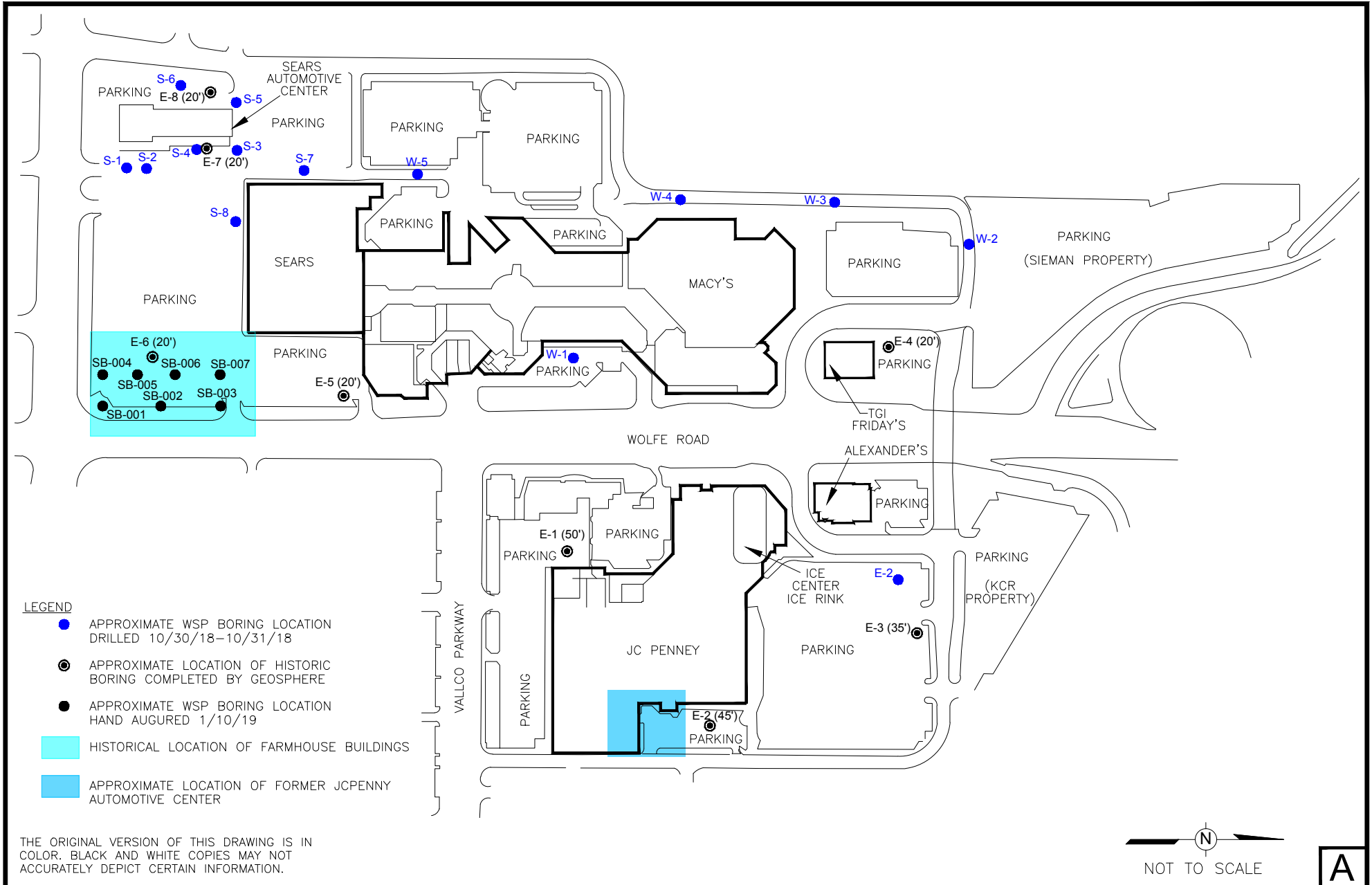


Figure 1

SITE LAYOUT AND
APPROXIMATE SOIL BORING LOCATIONS



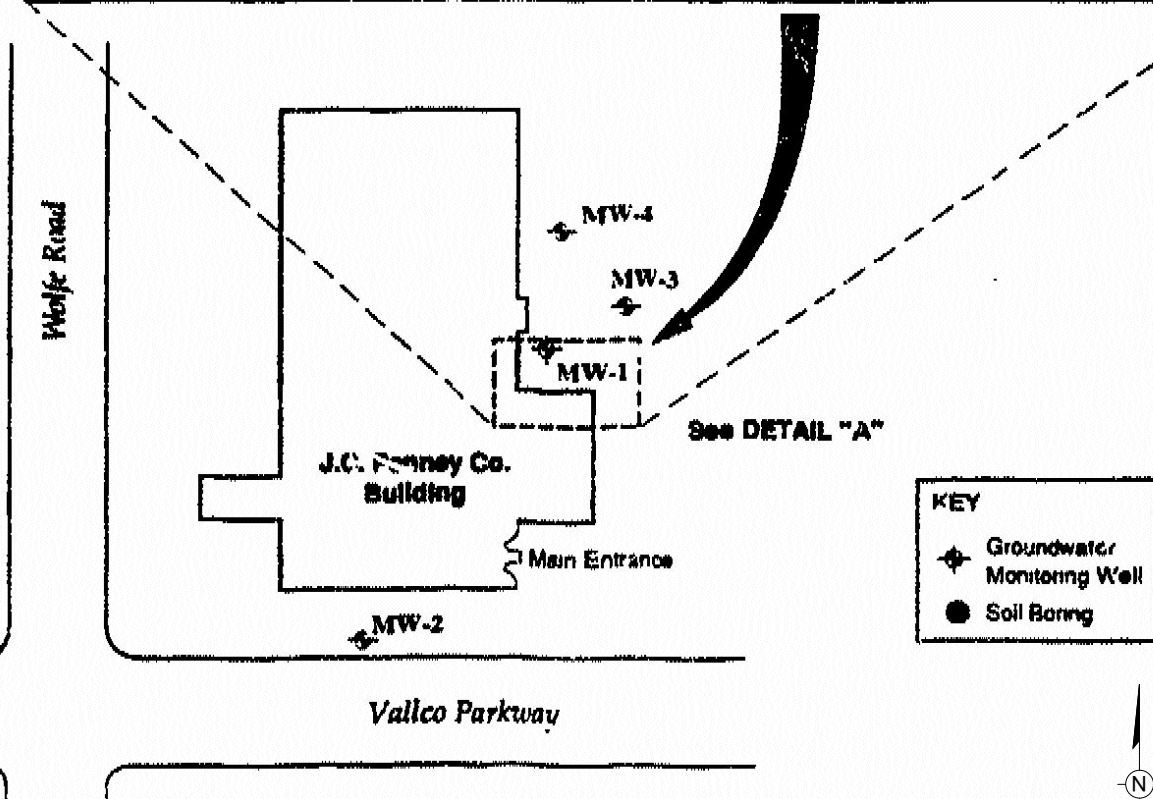
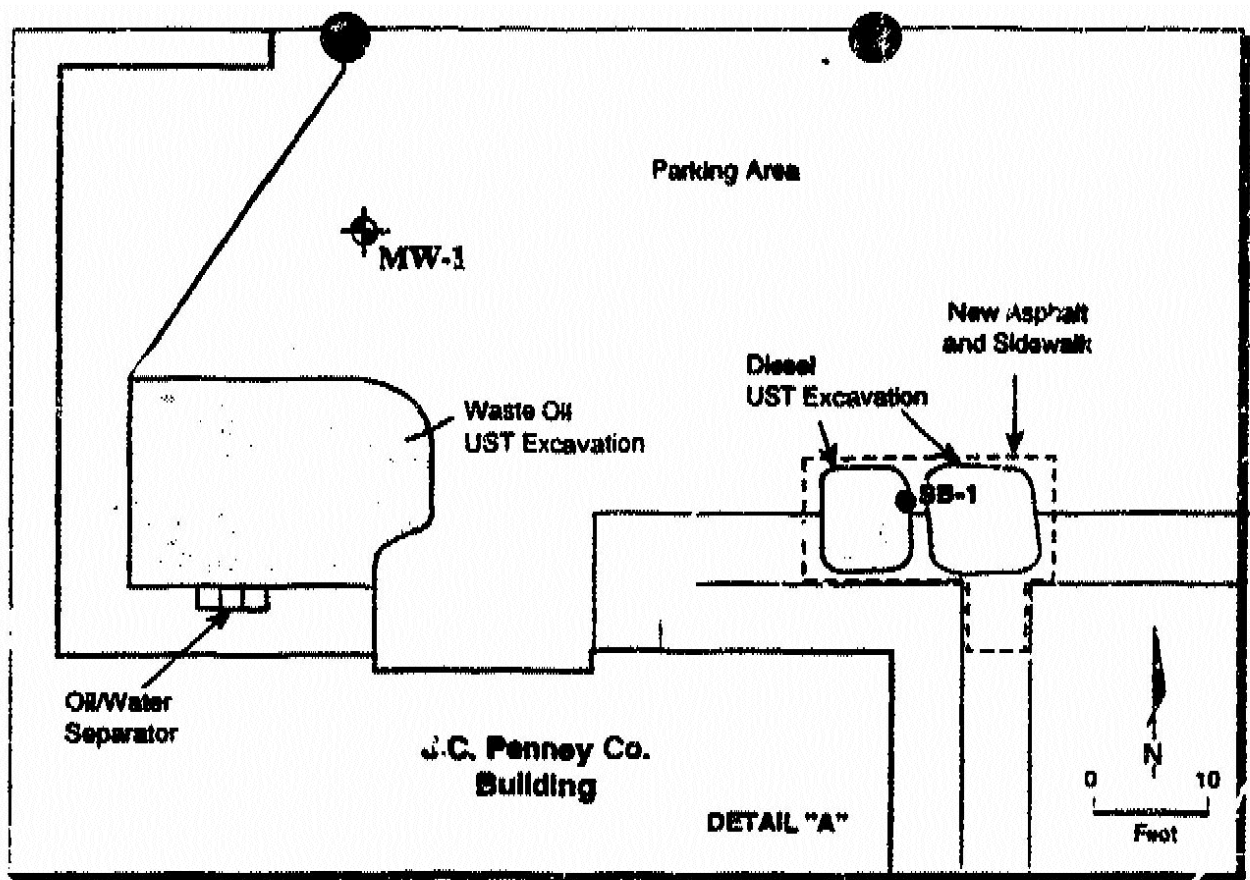
WSP USA Inc.
2025 GATEWAY PLACE
SUITE 348
SAN JOSE, CA 95110
TEL: +1 408.453.6100

VALLCO FASHION MALL
10123 NORTH WOLFE ROAD
CUPERTINO, CALIFORNIA
PREPARED FOR
VALLCO PROPERTY OWNER, LLC
PALO ALTO, CALIFORNIA

Drawn By:	LS 4/9/2019
Checked:	
Approved:	
DWG Name:	314MN1588.001-010

A

 WSP USA, Inc. 2025 GATEWAY PLACE SUITE 348 SAN JOSE, CA 95110 TEL: +1 408.453.6100	Figure 2	VALLCO FASHION MALL 10123 NORTH WOLFE ROAD CUPERTINO, CALIFORNIA PREPARED FOR VALLCO PROPERTY OWNER, LLC PALO ALTO, CALIFORNIA	Drawn By: LS <i>4/9/2019</i>
	APPROXIMATE BORING LOCATION – SEARS AUTOMOTIVE CENTER		Checked: Approved: DWG Name: 314MN1588-004



KEY	
	Groundwater Monitoring Well
	Soil Boring

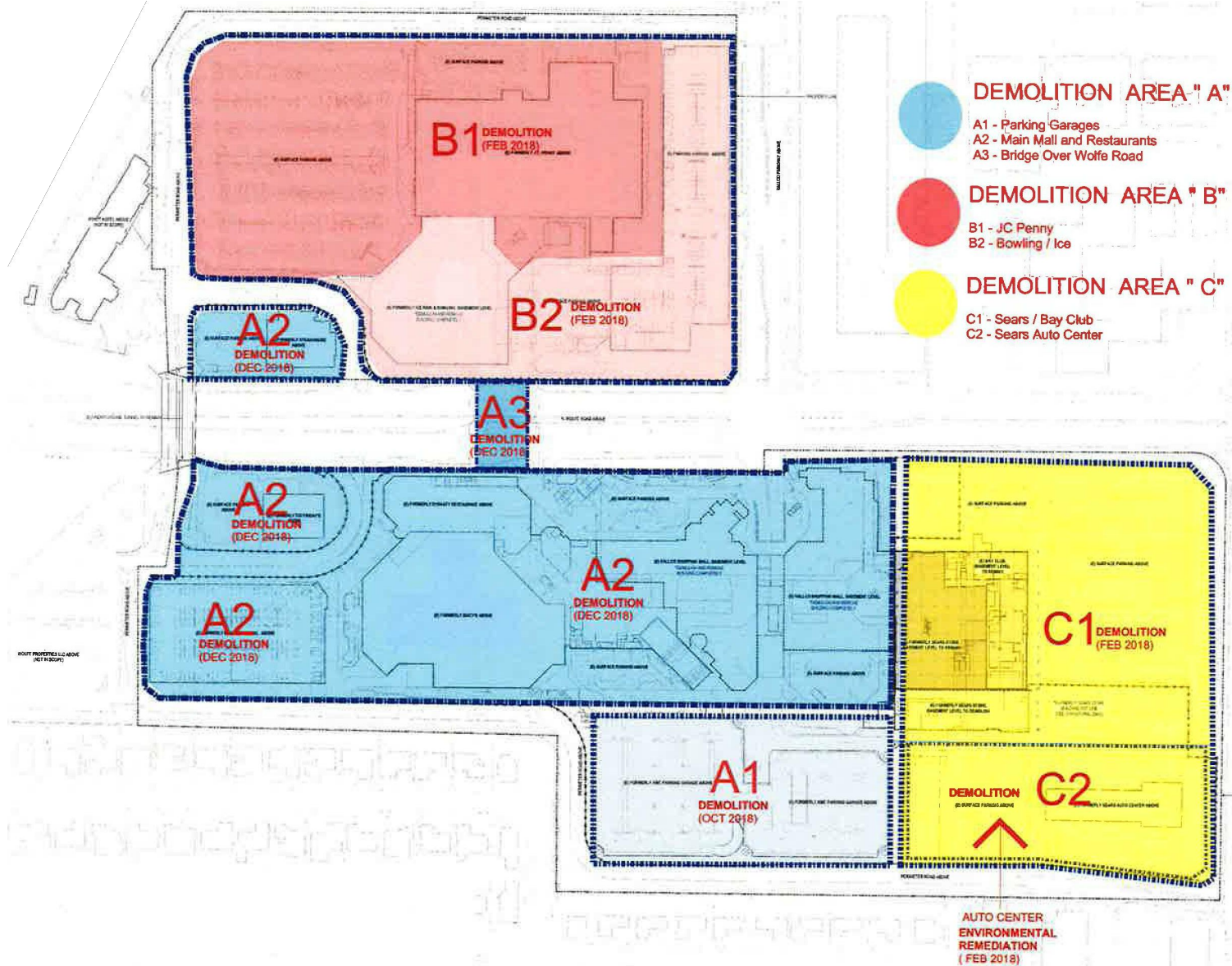
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Figure 3
JCPENNY AUTOMOTIVE
MAINTENANCE AREA

VALLCO FASHION MALL
10123 NORTH WOLFE ROAD
CUPERTINO, CALIFORNIA
PREPARED FOR
VALLCO PROPERTY OWNER, LLC
PALO ALTO, CALIFORNIA



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Figure 4

DEMOLITION PHASING

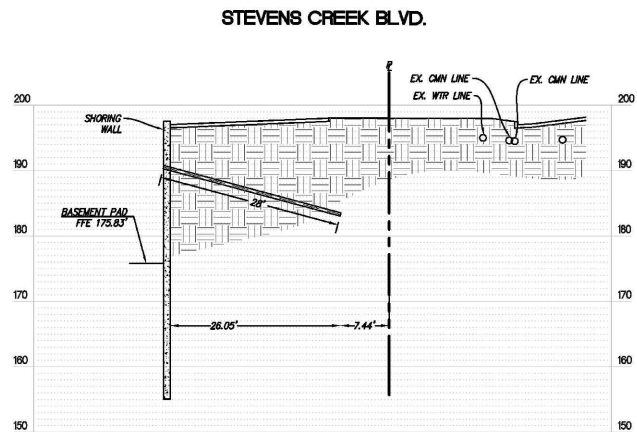
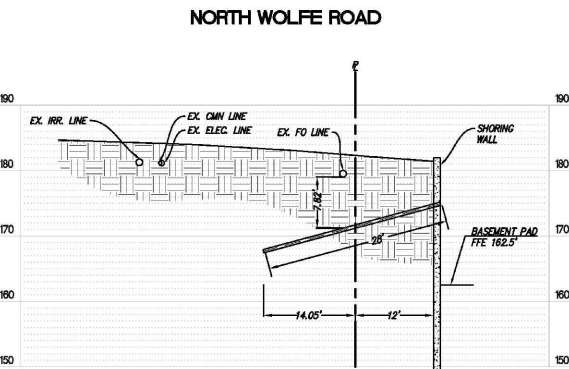
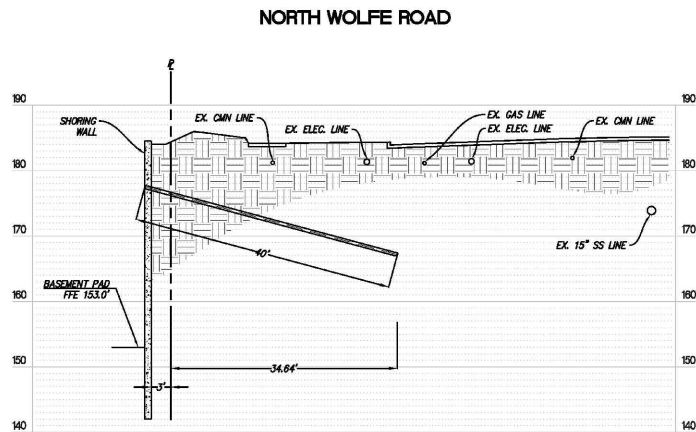
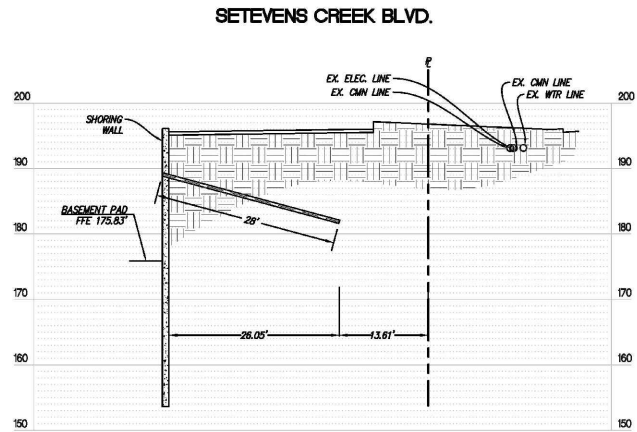
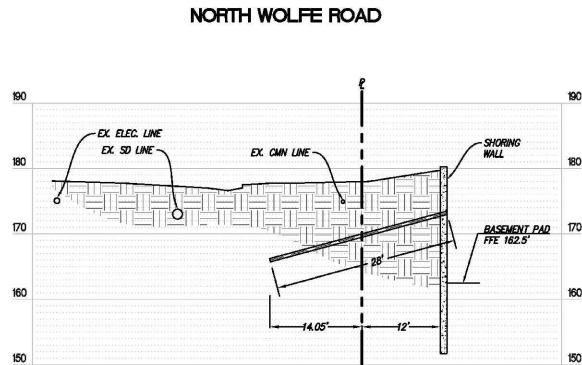
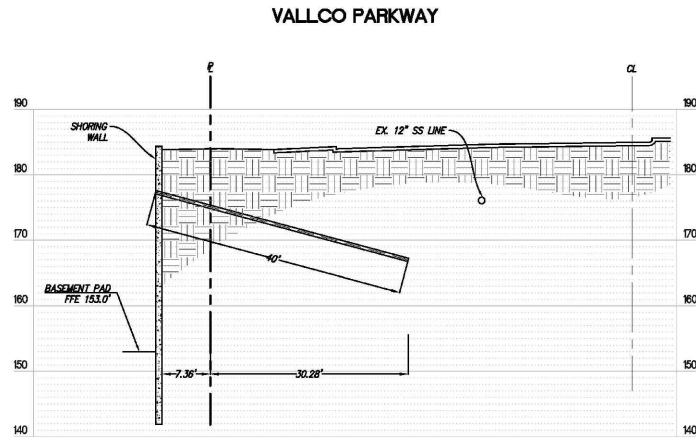
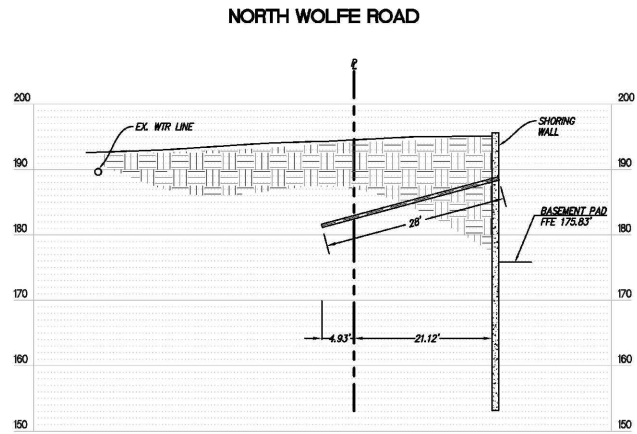
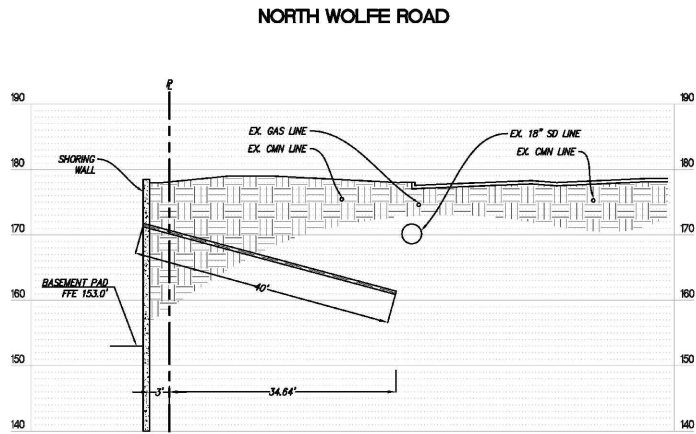
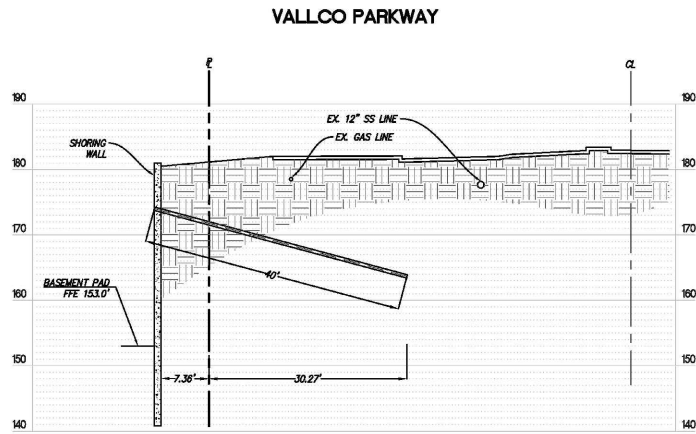
VALLCO FASHION MALL
10123 NORTH WOLFE ROAD
CUPERTINO, CALIFORNIA
PREPARED FOR
VALLCO PROPERTY OWNER, LLC
PALO ALTO, CALIFORNIA

Drawn By: LS 4/9/2019
Checked:
Approved:
DWG Name: 314MN1588-007

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REFERENCE: IMAGE FROM SANDS CIVIL ENGINEERS.



Drawn By: LS 4/9/2019
Checked:
Approved:
DWG Name: 314MN1588-008

VALLCO FASHION MALL
10123 NORTH WOLFE ROAD
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PALO ALTO, CALIFORNIA

Figure 5
EXCAVATION CROSS SECTIONS
FOR MALL REDEVELOPMENT

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TABLES



Table 1

**Sample Rationale and Analysis
Former Valco Mall**

Location	Collection Date (a)	Drilling Method	Approximate Depth (ft bgs)	Purpose	Pesticides	Herbicides	Title 22 Metals	Lead & Arsenic	TPHg	TPHd, mo	VOCs	SVOCs	PAHs	PCBs	Asbestos	2,3,7,8- TCDD
S-1 & S-2	10/30/2018	Direct Push	1	Potential surface releases at Sears Automotive Center Historical agricultural activities	x	x	x		x	x		x				
			5	Potential releases near USTs southeast of Sears Automotive Center	x	x	x		x	x		x				
			10	Potential releases near USTs southeast of Sears Automotive Center			x		x	x		x				
			15	Potential releases near USTs southeast of Sears Automotive Center			x		x	x		x				
			20	Potential releases near USTs southeast of Sears Automotive Center			x		x	x		x				
S-3 & S-4	10/30/2018	Direct Push	1	Potential releases near oil-water separator east of Sears Automotive Center Historical agricultural activities	x	x	x	x	x	x		x				
			5	Potential releases near oil-water separator east of Sears Automotive Center	x	x	x		x	x		x				
			10	Potential releases near oil-water separator east of Sears Automotive Center			x		x	x		x				
			15	Potential releases near oil-water separator east of Sears Automotive Center			x		x	x		x				
			20	Potential releases near oil-water separator east of Sears Automotive Center			x		x	x		x				
S-5 through S-8	10/30/2018	Direct Push	1	Potential surface releases at Sears Automotive Center Historical agricultural activities	x	x	x	x	x	x		x				
			5	Potential releases near Sears Automotive Center	x	x	x		x	x		x				
			10	Potential releases near Sears Automotive Center			x		x	x		x				
			15	Potential releases near Sears Automotive Center			x		x	x		x				
			20	Potential releases near Sears Automotive Center			x		x	x		x				
W-1 through W-5	10/31/2018	Direct Push	1	Spatial characterization on west side of Wolfe Road Historical agricultural activities	x	x	x	x	x	x		x				
			5	Spatial characterization across former Mall	x	x	x		x	x		x				
			10	Spatial characterization across former Mall			x		x	x		x				
			15	Spatial characterization across former Mall			x		x	x		x				
			20	Spatial characterization across former Mall			x		x	x		x				
E-2	10/31/2018	Direct Push	1	Spatial characterization across former Mall Historical agricultural activities	x	x	x	x	x	x		x				
			5	Spatial characterization across former Mall	x	x	x		x	x		x				
			10	Spatial characterization across former Mall			x		x	x		x				
			15	Spatial characterization across former Mall			x		x	x		x				
			20	Spatial characterization across former Mall			x		x	x		x				

Table 1

**Sample Rationale and Analysis
Former Valco Mall**

Location	Collection Date (a)	Drilling Method	Approximate Depth (ft bgs)	Purpose	Pesticides	Herbicides	Title 22 Metals	Lead & Arsenic	TPHg	TPHd, mo	VOCs	SVOCs	PAHs	PCBs	Asbestos	2,3,7,8- TCDD
SB-001 through SB-007	1/10/2019	Hand Auger	0.5	Historical agricultural buildings and activities	x			x								
			1	Historical agricultural buildings and activities	x			x								
			2	Historical agricultural buildings and activities	x			x								
			3	Historical agricultural buildings and activities	x			x								
E-1	9/6/2016	Direct Push	0	Historical agricultural activities	x		x		x	x	x	x	x	x	x	x
				Spatial characterization across former Mall												
			5	Spatial characterization across former Mall	x		x		x	x	x	x	x	x	x	x
			10	Spatial characterization across former Mall	x		x		x	x	x	x	x	x	x	x
			15	Spatial characterization across former Mall	x		x		x	x	x	x	x	x	x	x
			20	Spatial characterization across former Mall	x		x		x	x	x	x	x	x	x	x
E-2	9/6/2016	Direct Push	35	Spatial characterization across former Mall	x		x		x	x	x	x	x	x	x	x
			0	Historical agricultural activities	x		x		x	x	x	x	x	x	x	x
				Spatial characterization across former Mall												
			5	Spatial characterization across former Mall	x		x		x	x	x	x	x	x	x	x
			10	Spatial characterization across former Mall	x		x		x	x	x	x	x	x	x	x
E-3	9/6/2016	Direct Push	20	Spatial characterization across former Mall	x		x		x	x	x	x	x	x	x	x
			30	Spatial characterization across former Mall	x		x		x	x	x	x	x	x	x	x
			0	Historical agricultural activities	x		x		x	x	x	x	x	x	x	x
				Spatial characterization across former Mall												
E-4 through E-6	9/6/2016	Direct Push	5	Spatial characterization across former Mall	x		x		x	x	x	x	x	x	x	x
			15	Spatial characterization across former Mall	x		x		x	x	x	x	x	x	x	x
			25	Spatial characterization across former Mall	x		x		x	x	x	x	x	x	x	x
				Spatial characterization across former Mall												
E-7	9/6/2016	Direct Push	0	Historical agricultural activities	x		x		x	x	x	x	x	x	x	x
				Spatial characterization across former Mall												
			5	Spatial characterization across former Mall	x		x		x	x	x	x	x	x	x	x
			10	Spatial characterization across former Mall	x		x		x	x	x	x	x	x	x	x
			20	Spatial characterization across former Mall	x		x		x	x	x	x	x	x	x	x
				Spatial characterization across former Mall												

Table 1

**Sample Rationale and Analysis
Former Valco Mall**

Location	Collection Date (a)	Drilling Method	Approximate Depth (ft bgs)	Purpose	Pesticides	Herbicides	Title 22 Metals	Lead & Arsenic	TPHg	TPHd, mo	VOCs	SVOCs	PAHs	PCBs	Asbestos	2,3,7,8- TCDD
E-8	9/6/2016	Direct Push	0	Historical agricultural activities	x		x		x	x	x	x	x	x	x	x
			5	Spatial characterization across former Mall	x		x		x	x	x	x	x	x	x	x
			10	Spatial characterization across former Mall	x		x		x	x	x	x	x	x	x	x
			15	Spatial characterization across former Mall	x		x		x	x	x	x	x	x	x	x
			20	Spatial characterization across former Mall	x		x		x	x	x	x	x	x	x	x

Abbreviations

ft bgs: feet below ground surface

PCBs: polychlorinated biphenyls by EPA Method 8082

PAHs: polycyclic aromatic hydrocarbons by EPA Method 8270

TPHg: total petroleum hydrocarbons as gasoline by EPA Method 8015M

TPHd, mo: total petroleum hydrocarbons as diesel and motor oil by EPA Method 8015M

SVOCs: semi-volatile organic compounds by EPA Method 8270

VOCs: volatile organic compounds by EPA Method 8260

TCDD: Tetrachlorodibenzodioxin by EPA method 1613B

Notes:

(a) Samples from 2016 were collected by Geosphere. Samples from 2018 were collected by WSP

Table 2

**Summary of Metal Concentrations
Former Vallco Mall**

<u>Sample ID</u> ^{[1][2]}	<u>Antimony</u> (mg/kg)	<u>Arsenic</u> ^[6] (mg/kg)	<u>Barium</u> (mg/kg)	<u>Beryllium</u> (mg/kg)	<u>Cadmium</u> (mg/kg)	<u>Chromium</u> (mg/kg)	<u>Cobalt</u> (mg/kg)	<u>Copper</u> (mg/kg)	<u>Lead</u> (mg/kg)	<u>Mercury</u> (mg/kg)	<u>Molybdenum</u> (mg/kg)			
S-1-(1)	0.54	J	3.7	160	0.45	0.19	J	65	15	31	7.1	0.052	0.39	
S-1-(5)	0.49	J	3.1	140	0.52	0.18	J	87	16	29	6.4	0.05	0.26	J
S-1-(10)	0.33	J	4.1	200	0.64	0.2	J	94	21	46	8.1	0.049	0.25	J
S-1-(15)	0.23	J	3	130	0.57	0.2	J	93	18	37	5.7	0.088	0.24	J
S-1-(20)	0.45	J	4	100	0.47	0.2	J	45	11	28	6.4	0.099	0.58	
S-2-(1)	0.46	J	3.6	190	0.54	0.18	J	76	18	41	7.6	0.062	0.19	J
S-2-(5)	0.45	J	3.1	180	0.42	0.19	J	74	13	28	5.1	0.032	0.76	
S-2-(10)	0.38	J	3	250	0.47	0.18	J	80	14	27	5.1	0.045	1.5	
S-2-(15)	0.29	J	3.9	110	0.46	0.13	J	52	10	30	6	0.12	0.41	
S-2-(20)	0.55	J	4.1	110	0.5	0.2	J	44	11	27	6.4	0.13	0.53	
S-3-(1)	0.53	J	4	230	0.43	0.24	J	45	12	29	5.9	0.06	0.58	
S-3-(5)	0.44	J	3.9	150	0.55	0.2	J	83	18	41	7.6	0.055	0.3	
S-3-(10)	0.81	J	2.5	150	0.53	0.2	J	93	16	28	5.5	0.042	0.32	
S-3-(15)	0.28	J	4.9	98	0.56	0.15	J	48	10	29	7.5	0.081	0.7	
S-3-(20)	0.64	J	3.9	120	0.47	0.17	J	39	10	26	6.2	0.095	0.55	
S-4-(1)	0.45	J	4.5	160	0.51	0.26		78	17	39	15	0.053	0.36	
S-4-(5)	0.37	J	3.1	190	0.5	0.18	J	79	19	34	6.9	0.087	0.29	
S-4-(10)	0.4	J	3.3	140	0.53	0.18	J	80	18	37	7.2	0.039	0.33	
S-4-(15)	0.51	J	6.2	150	0.69	0.25		54	14	42	10	0.093	0.91	
S-4-(20)	0.61	J	5	110	0.55	0.23	J	48	13	32	7.6	0.12	0.67	
S-5-(1)	0.46	J	3.4	180	0.57	0.15	J	78	16	37	7.4	0.054	0.21	J
S-5-(5)	0.53	J	4.1	180	0.57	0.19	J	88	19	43	8.3	0.052	0.24	J
S-5-(10)	0.44	J	3.2	150	0.62	0.24		94	17	39	6.7	0.061	0.3	
S-5-(15)	0.7	J	2.7	99	0.45	0.095	J	61	13	26	4.4	0.044	0.67	
S-5-(20)	0.3	J	2.8	82	0.33	0.1	J	36	8.4	23	4.6	0.082	0.53	
S-6-(1)	0.45	J	2.7	150	0.32	0.17	J	45	10	25	12	0.065	1.1	
S-6-(5)	0.46	J	3.1	100	0.42	0.17	J	64	14	27	6.3	0.052	0.31	
S-6-(10)	0.4	J	4.8	120	0.48	0.15	J	45	11	26	6.8	0.071	0.75	
S-6-(15)	0.34	J	4.9	110	0.57	0.19	J	47	11	30	7.2	0.18	0.69	
S-6-(20)	0.15	J	3.7	120	0.46	0.19	J	80	17	33	5.8	0.12	0.37	
S-7-(2)	0.34	J	2.7	120	0.48	0.19	J	62	15	35	8.2	0.67	0.3	
S-7-(5)	0.45	J	4	160	0.54	0.19	J	70	16	34	7.1	0.056	0.35	
S-7-(10)	0.51	J	4.1	130	0.57	0.19	J	61	16	38	7.2	0.071	0.44	
S-7-(15)	0.3	J	4.1	78	0.51	0.17	J	49	11	26	6.5	0.12	0.68	
S-7-(20)	0.9	J	2.6	69	0.37	0.12	J	40	10	31	4.8	0.11	0.63	
S-8-(1)	0.85	J	1.8	110	0.23	0.29		33	8.3	15	2.9	0.036	0.37	
S-8-(5)	0.5	J	3.8	190	0.6	0.37		88	20	41	7.8	0.052	0.19	J
S-8-(10)	0.41	J	3.6	120	0.51	0.35		71	13	30	6.5	0.054	0.22	J
S-8-(15)	0.57	J	4.9	120	0.53	0.27	J	52	12	30	7	0.13	0.63	
S-8-(20)	0.55	J	4.5	110	0.51	0.36		49	12	33	7.1	0.043	0.74	
ESLs Residential (mg/kg)	11		[4]	15,000	16	78	--	23	3,100	80	13		390	
RSLs Residential (mg/kg)	31		12 ^[4]	15,000	160	71	--	23	3,100	400	11		390	

Table 2

**Summary of Metal Concentrations
Former Vallco Mall**

<u>Sample ID</u> ^{[1][2]}	<u>Antimony</u> (mg/kg)	<u>Arsenic</u> (mg/kg)	<u>Barium</u> (mg/kg)	<u>Beryllium</u> (mg/kg)	<u>Cadmium</u> (mg/kg)	<u>Chromium</u> (mg/kg)	<u>Cobalt</u> (mg/kg)	<u>Copper</u> (mg/kg)	<u>Lead</u> (mg/kg)	<u>Mercury</u> (mg/kg)	<u>Molybdenum</u> (mg/kg)
W-1-(1)	0.71 J	3.8	140	0.41	0.33	60	14	35	8.2	0.083	0.84
W-1-(5)	0.43 J	5.1	150	0.53	0.33	61	15	37	8	0.14	0.46
W-1-(10)	0.39 J	4.9	140	0.55	0.44	51	13	30	8.3	0.083	0.64
W-1-(15)	0.33 J	5.3	130	0.56	0.37	47	13	34	8.3	0.14	0.68
W-1-(20)	2 U	4.5	160	0.59	0.33	79	18	39	7.2	0.11	0.13 J
W-2-(2)	2 U	2.8	130	0.57	0.3	60	13	27	5.3	0.059	0.23 J
W-2-(5)	1.9 U	5.2	97	0.67	0.31	56	15	39	5.4	0.11	0.13 J
W-2-(10)	2 U	3.7	81	0.6	0.35	58	11	35	5	0.12	0.21 J
W-2-(15)	2 U	4.1	100	0.64	0.29	47	11	37	6.3	0.13	0.2 J
W-2-(20)	1.9 U	3.5	110	0.55	0.71	60	9.7	26	4.9	0.081	2
W-3-(1)	2 U	3.4	460	0.24	0.45	27	8.6	19	1.1	0.24	0.31
W-3-(5)	2 U	5	99	0.69	0.35	57	16	43	6.7	0.15	0.23 J
W-3-(10)	2 U	3.9	84	0.59	0.31	54	12	29	5.1	0.076	0.21 J
W-3-(15)	1.9 U	5.9	130	0.68	0.36	53	13	39	8.1	0.073	0.26
W-3-(20)	1.9 U	5.9	130	0.76	0.44	44	13	33	9.1	0.16	0.61
W-4-(1)	2 U	5	200	0.72	0.43	88	18	40	8	0.13	0.2 J
W-4-(5)	1.9 U	4	150	0.61	0.37	58	14	26	6.3	0.063	0.17 J
W-4-(10)	2 U	8.1	180	0.95	0.57	71	23	58	12	0.11	0.54
W-4-(15)	0.65 J	5.8	130	0.61	0.38	51	14	36	8.6	0.13	0.72
W-4-(20)	0.26 J	5	130	0.6	0.48	51	13	34	8.3	0.088	0.65
W-5-(1)	0.33 J	3.5	210	0.55	0.4	70	17	37	7.4	0.058	0.23 J
W-5-(5)	0.4 J	2.5	79	0.3	0.25 J	33	8.2	15	5.4	0.089	0.23 J
W-5-(10)	0.54 J	3.9	130	0.52	0.4	75	17	37	7.4	0.076	0.3
W-5-(15)	0.4 J	4.5	130	0.53	0.39	55	12	26	7.2	0.09	0.61
W-5-(20)	0.47 J	4.4	100	0.51	0.43	63	16	38	7.3	0.11	0.41
E-2-(1)	1.9 U	2.5	180	0.7	0.44	82	20	37	6.7	0.038	0.11 J
E-2-(5)	1.8 U	3.3	150	0.67	0.42	81	18	35	9	0.061	0.23 U
E-2-(10)	2 U	4	200	0.68	0.37	86	17	38	7.6	0.072	0.25 U
E-2-(15)	1.9 U	3.6	220	0.68	0.39	83	20	30	6.4	0.072	0.23 U
E-2-(20)	2 U	4.6	170	0.73	0.36	81	16	37	8.5	0.033	0.19 J
ESLs Residential (mg/kg)	11	[4]	15,000	16	78	--	23	3,100	80	13	390
RSLs Residential (mg/kg)	31	12 ^[4]	15,000	160	71	--	23	3,100	400	11	390

Table 2

**Summary of Metal Concentrations
Former Vallco Mall**

<u>Sample ID</u> ^{[2][3]}	<u>Antimony</u> (mg/kg)	<u>Arsenic</u> (mg/kg)	<u>Barium</u> (mg/kg)	<u>Beryllium</u> (mg/kg)	<u>Cadmium</u> (mg/kg)	<u>Chromium</u> (mg/kg)	<u>Cobalt</u> (mg/kg)	<u>Copper</u> (mg/kg)	<u>Lead</u> (mg/kg)	<u>Mercury</u> (mg/kg)	<u>Molybdenum</u> (mg/kg)
E1-1	5 U	2.5	344	1.3 U	1 U	32.9	13 U	25.4	7.4	0.087	13 U
E1-2	4.7 U	3.5	174	1.2 U	0.94 U	84.9	19.7	38.1	9.1	0.045	12 U
E1-3	4.8 U	24 U	76.4	1.2 U	0.96 U	54.7	12 U	23.3	4.8 U	0.063	12 U
E1-4	3.7 U	3	96.7	0.92 U	0.74 U	89.6	19.6	30.2	7.3	0.043	9.2 U
E1-8	3.7 U	3.6	90.9	0.93 U	0.74 U	27.8	9.3 U	19.3	7.4	0.45	9.3 U
E2-1	3.2 U	3.3	111	0.81 U	0.65 U	50.9	13	27.1	7.7	0.092	8.1 U
E2-2	3.4 U	3.1	218	0.86 U	0.69 U	74.4	16.1	35	9.3	0.04 U	8.6 U
E2-3	3.9 U	3.1	198	0.97 U	0.78 U	79.8	18.8	36.4	9.3	0.038 U	9.7 U
E2-5	4.3 U	3.7	164	1.1 U	0.86 U	72.6	17.7	37	8.5	0.1	11 U
E2-7	4.6 U	3	128	1.1 U	0.92 U	67.7	16.1	35	7.6	0.093	11 U
E3-1	3.5 U	3.2	152	0.88 U	0.7 U	62	14.2	29.6	8.1	0.042	8.8 U
E3-2	4.1 U	2.7	143	1 U	0.83 U	65.1	15.2	30.9	9.1	0.042	10 U
E3-4	3.4 U	3.2	147	0.86 U	0.69 U	66.1	15.5	30.6	7.4	0.1	8.6 U
E3-6	3.8 U	3.1	120	0.94 U	0.75 U	78.1	12.6	27.7	6.9	0.062	9.4 U
E4-1	4.2 U	3.9	172	1.1 U	0.85 U	82.5	17.9	39	9.6	0.098	11 U
E4-2	3.7 U	4.5	167	0.92 U	0.74 U	65.3	16.7	32	10.5	0.044	9.2 U
E4-3	4.4 U	4.7	140	1.1 U	0.88 U	58.7	15.8	34.1	9.7	0.12	11 U
E5-1	3.3 U	3.8	364	0.83 U	0.66 U	66.6	14.7	33.1	15.7	0.09	8.3 U
E5-2	4.6 U	4.1	158	1.1 U	0.92 U	74.1	16.5	33.5	14.4	0.048	11 U
E5-3	4.5 U	2.9	136	1.1 U	0.89 U	73.2	16.9	33.3	8.1	0.045	11 U
E6-1	3.6 U	3.5	135	0.91 U	0.73 U	77.3	16.5	35.1	15.1	0.13	9.1 U
E6-2	4.8 U	3.5	199	1.2 U	0.96 U	78.8	18.1	37	9	0.056	12 U
E6-4	4.2 U	2.4	135	1.1 U	0.85 U	82.3	18.3	34	7.7	0.047	11 U
E7-1	4.7 U	2.4 U	156	1.2 U	0.94 U	69	14.8	33.9	10.3	0.048	12 U
E7-2	4.2 U	3	164	1.1 U	0.84 U	71.4	19.3	34.9	9.2	0.039 U	11 U
E7-3	4.4 U	2.7	139	1.1 U	0.88 U	69	17.2	33.4	7.6	0.04 U	11 U
E7-5	4.2 U	4.2	115	1.1 U	0.84 U	56.7	11.4	31.1	8.5	0.12	11 U
E8-1	4.8 U	3.7	142	1.2 U	0.95 U	70.4	14.6	33.8	37.5	0.12	12 U
E8-2	4.6 U	3	177	1.2 U	0.93 U	76.3	17.6	35.5	9.1	0.037 U	12 U
E8-3	3.8 U	3.1	112	0.95 U	0.76 U	77.5	18.1	33.5	8.2	0.055	9.5 U
E8-4	4.5 U	4.4	86.7	1.1 U	0.89 U	49.5	11.1	25.1	8.2	0.065	11 U
E8-5	4.7 U	3.6	115	1.2 U	0.93 U	48.9	12 U	27.3	7.4	0.086	12 U
ESLs Residential (mg/kg)	11	[4]	15,000	16	78	--	23	3,100	80	13	390
RSLs Residential (mg/kg)	31	12 ^[4]	15,000	160	71	--	23	3,100	400	11	390

Table 2

**Summary of Metal Concentrations
Former Vallco Mall**

<u>Sample ID</u> ^{[1][2]}	<u>Nickel</u> (mg/kg)	<u>Selenium</u> (mg/kg)	<u>Silver</u> (mg/kg)	<u>Thallium</u> (mg/kg)	<u>Vanadium</u> (mg/kg)	<u>Zinc</u> (mg/kg)
S-1-(1)	87	2 U	0.27 U	0.53 U	51	49
S-1-(5)	74	2 U	0.26 U	0.53 U	69	47
S-1-(10)	110	2 U	0.27 U	0.54 U	64	65
S-1-(15)	85	2 U	0.25 U	0.49 U	81	52
S-1-(20)	57	1.9 U	0.24 U	0.48 U	43	46
S-2-(1)	86	1.9 U	0.24 U	0.49 U	52	58
S-2-(5)	67	2 U	0.25 U	0.51 U	60	43
S-2-(10)	68	2 U	0.27 U	0.54 U	66	42
S-2-(15)	61	1.9 U	0.24 U	0.47 U	43	44
S-2-(20)	58	2 U	0.26 U	0.52 U	41	46
S-3-(1)	55	2 U	0.26 U	0.53 U	46	47
S-3-(5)	96	2 U	0.25 U	0.5 U	60	60
S-3-(10)	80	2 U	0.25 U	0.51 U	75	47
S-3-(15)	64	1.9 U	0.23 U	0.46 U	45	52
S-3-(20)	50	1.9 U	0.24 U	0.48 U	39	42
S-4-(1)	84	1.9 U	0.24 U	0.49 U	60	64
S-4-(5)	90	2 U	0.27 U	0.54 U	59	51
S-4-(10)	82	2 U	0.26 U	0.52 U	54	54
S-4-(15)	67	1.8 U	0.23 U	0.46 U	53	73
S-4-(20)	63	2 U	0.27 U	0.54 U	46	56
S-5-(1)	92	2 U	0.27 U	0.53 U	50	55
S-5-(5)	100	2 U	0.26 U	0.52 U	62	63
S-5-(10)	73	1.8 U	0.23 U	0.46 U	76	56
S-5-(15)	59	2 U	0.26 U	0.52 U	56	42
S-5-(20)	31	1.9 U	0.23 U	0.46 U	45	41
S-6-(1)	53	2 U	0.27 U	0.55 U	39	70
S-6-(5)	71	2 U	0.25 U	0.51 U	46	45
S-6-(10)	56	2 U	0.27 U	0.54 U	46	50
S-6-(15)	63	2 U	0.25 U	0.49 U	43	52
S-6-(20)	85	2 U	0.27 U	0.54 U	66	46
S-7-(2)	68	2 U	0.27 U	0.53 U	56	60
S-7-(5)	80	2 U	0.26 U	0.53 U	53	58
S-7-(10)	59	1.9 U	0.23 U	0.47 U	68	58
S-7-(15)	56	2 U	0.25 U	0.5 U	39	45
S-7-(20)	40	2 U	0.27 U	0.54 U	49	44
S-8-(1)	50	1.8 U	0.23 U	0.45 U	23	26
S-8-(5)	99	1.9 U	0.24 U	0.47 U	60	57
S-8-(10)	64	1.9 U	0.24 U	0.47 U	54	48
S-8-(15)	63	2 U	0.27 U	0.54 U	46	49
S-8-(20)	59	2 U	0.26 U	0.52 U	48	49
ESLs Residential (mg/kg)	820	390	390	0.78	390	23,000
RSLs Residential (mg/kg)	490	390	390	--	390	23,000

Table 2

**Summary of Metal Concentrations
Former Vallco Mall**

<u>Sample ID</u> ^{[1][2]}	<u>Nickel</u> (mg/kg)	<u>Selenium</u> (mg/kg)	<u>Silver</u> (mg/kg)	<u>Thallium</u> (mg/kg)	<u>Vanadium</u> (mg/kg)	<u>Zinc</u> (mg/kg)
W-1-(1)	79	2 U	0.26 U	0.52 U	51	55
W-1-(5)	93	2 U	0.25 U	0.49 U	48	56
W-1-(10)	54	2 U	0.25 U	0.5 U	45	64
W-1-(15)	69	1.9 U	0.24 U	0.48 U	43	57
W-1-(20)	100	2 U	0.25 U	0.49 U	61	57
W-2-(2)	55	2 U	0.27 U	0.55 U	59	48
W-2-(5)	62	1.9 U	0.24 U	0.48 U	68	55
W-2-(10)	69	2 U	0.27 U	0.55 U	66	53
W-2-(15)	50	2 U	0.26 U	0.52 U	68	56
W-2-(20)	57	1.9 U	1.1	0.48 U	56	44
W-3-(1)	47	2 U	0.27 U	0.54 U	29	31
W-3-(5)	79	2 U	0.27 U	0.53 U	70	54
W-3-(10)	65	2 U	0.26 U	0.53 U	63	49
W-3-(15)	74	1.9 U	0.24 U	0.49 U	55	55
W-3-(20)	65	1.9 U	0.24 U	0.47 U	55	66
W-4-(1)	96	2 U	0.25 U	0.5 U	71	64
W-4-(5)	66	1.9 U	0.23 U	0.47 U	60	57
W-4-(10)	120	2 U	0.27 U	0.53 U	79	89
W-4-(15)	70	2 U	0.25 U	0.5 U	49	60
W-4-(20)	59	1.9 U	0.24 U	0.49 U	49	69
W-5-(1)	91	2 U	0.25 U	0.5 U	46	59
W-5-(5)	43	2 U	0.27 U	0.54 U	27	35
W-5-(10)	97	2 U	0.27 U	0.53 U	52	59
W-5-(15)	58	2 U	0.25 U	0.5 U	45	55
W-5-(20)	72	1.9 U	0.24 U	0.48 U	54	56
E-2-(1)	92	1.9 U	0.24 U	0.47 U	67	54
E-2-(5)	85	1.8 U	0.23 U	0.45 U	68	54
E-2-(10)	100	2 U	0.25 U	0.5 U	68	57
E-2-(15)	85	1.9 U	0.23 U	0.47 U	72	49
E-2-(20)	89	2 U	0.26 U	0.52 U	66	58
ESLs Residential (mg/kg)	820	390	390	0.78	390	23,000
RSLs Residential (mg/kg)	490	390	390	--	390	23,000

Table 2

**Summary of Metal Concentrations
Former Vallco Mall**

<u>Sample ID</u> ^{[2][3]}	<u>Nickel</u> (mg/kg)	<u>Selenium</u> (mg/kg)	<u>Silver</u> (mg/kg)	<u>Thallium</u> (mg/kg)	<u>Vanadium</u> (mg/kg)	<u>Zinc</u> (mg/kg)
E1-1	36.7	5 U	2.5 U	2.5 U	37.2	44.7
E1-2	105	4.7 U	2.4 U	2.4 U	64.1	58.3
E1-3	48.7	4.8 U	2.4 U	2.4 U	59.5	35.2
E1-4	87.6	3.7 U	1.8 U	1.8 U	69	48.5
E1-8	36.2	3.7 U	1.9 U	1.9 U	31.2	47.5
E2-1	69.1	3.2 U	1.6 U	1.6 U	36.5	46
E2-2	94.4	3.4 U	1.7 U	1.7 U	47.2	52.6
E2-3	100	3.9 U	1.9 U	1.9 U	49.2	54.8
E2-5	95.6	4.3 U	2.2 U	2.2 U	53.4	53.8
E2-7	90.8	4.6 U	2.3 U	2.3 U	44.5	56.5
E3-1	70.9	3.5 U	1.8 U	1.8 U	47.2	55.2
E3-2	77.5	4.1 U	2.1 U	2.1 U	50	52
E3-4	78.2	3.4 U	1.7 U	1.7 U	54.7	47
E3-6	65.5	3.8 U	1.9 U	1.9 U	66.7	47.7
E4-1	101	4.2 U	2.1 U	2.1 U	61.4	59.7
E4-2	82.4	3.7 U	1.8 U	1.8 U	52.5	56.6
E4-3	93.7	4.4 U	2.2 U	2.2 U	49.2	58
E5-1	72.5	3.3 U	1.7 U	1.7 U	60.9	61.9
E5-2	86.1	4.6 U	2.3 U	2.3 U	59.6	64.6
E5-3	86.9	4.5 U	2.2 U	2.2 U	52.2	52.9
E6-1	82.6	3.6 U	1.8 U	1.8 U	60.3	58
E6-2	98.4	4.8 U	2.4 U	2.4 U	54	57.1
E6-4	81.8	4.2 U	2.1 U	2.1 U	63.9	47.9
E7-1	82.5	4.7 U	2.4 U	2.4 U	51.2	52.2
E7-2	96.6	4.2 U	2.1 U	2.1 U	41.8	53
E7-3	68.6	4.4 U	2.2 U	2.2 U	60.1	51.9
E7-5	68.4	4.2 U	2.1 U	2.1 U	46.4	52.7
E8-1	81.1	4.8 U	2.4 U	2.4 U	52.2	54
E8-2	93.4	4.6 U	2.3 U	2.3 U	52.7	52.7
E8-3	83.1	3.8 U	1.9 U	1.9 U	53.9	49
E8-4	61.8	4.5 U	2.2 U	2.2 U	44.9	49.6
E8-5	62.6	4.7 U	2.3 U	2.3 U	43	50
ESLs Residential (mg/kg)	820	390	390	0.78	390	23,000
RSLs Residential (mg/kg)	490	390	390	--	390	23,000

Table 2

**Summary of Metal Concentrations
Former Vallco Mall**

<u>Sample ID</u> ^{[2][5]}	<u>Lead</u> (mg/kg)	<u>Arsenic</u> ^[6] (mg/kg)
SB-001-(0.5)	38	5.1
SB-001-(1)	56	4.9
SB-001-(2)	6.2	4.4
SB-001-(3)	4.7	3.4
SB-002-(0.5)	16	4.2
SB-002-(1)	8.5	4.0
SB-002-(2)	9.6	4.2
SB-002-(3)	5.9	4.0
SB-003-(0.5)	11	5.2
SB-003-(1)	4.5	2.8
SB-003-(2)	3.3	2.4
SB-003-(3)	5.8	3.4
SB-004-(0.5)	30	6
SB-004-(1)	14	4.1
SB-004-(2)	30 B	6.3
SB-004-(3)	17 B	4.0
SB-005-(0.5)	21 B	4.9
SB-005-(1)	21 B	5.8
SB-005-(2)	6.5 B	4.9
SB-005-(3)	6.2 B	4.4
SB-006-(0.5)	6.7 B	5.6
SB-006-(1)	6.6 B	4.9
SB-006-(2)	5.5 B	4.7
SB-006-(3)	6.5 B	3.9
SB-007-(0.5)	5.2 B	2.7
SB-007-(1)	7.7 B	4.5
SB-007-(2)	6.7 B	4.5
SB-007-(3)	5.9 B	4.9
ESLs Residential (mg/kg)	82	[4]
RSLs Residential (mg/kg)	400	12 ^[4]

Table 2

**Summary of Metal Concentrations
Former Vallco Mall**

Notes:

mg/kg = micrograms per kilogram

ESLs Residential = Environmental Screening Levels (ESLs) for direct exposure to human health for residential shallow soil exposure as established by the San Francisco (SF) Water Board, revised January 2019. Screening levels listed are for either cancer risk or non-cancer hazards; if a screening level for both cancer risk and non-cancer hazards existed, the lower screening level was listed.

RSLs Residential = Regional Screening Levels (RSLs) for exposure to cancer/noncancer residential soil established by the Department of Toxic Substances Control (DTSC), revised November 2018.

U = compound was not detected at a concentration greater than the reporting limit shown

J = compound was detected at a concentration less than the laboratory reporting limit, but greater than the method detection limit

B = analyte detected in the associated method blank and in the sample

-- = not applicable or not available

[1] Samples collected by WSP on 10/30 & 10/31/18. Sample nomenclature is as follows: "sample location - (sample depth)". Gray gradient indicates increased depth.

[2] Bold results indicate the concentration is greater than the reporting limit; results in red font indicate exceedance of screening levels.

[3] Samples collected by Geosphere consultants, inc. on September 6, 2016

[4] Risk-based screening level concentrations of arsenic in soil are often below naturally occurring (background) concentrations. DTSC recognizes 12 mg/kg as the upper bound estimate for background concentrations in California. SF Water Board cited that Duvergé (2011) conducted a study of regional background concentrations of arsenic and proposed an upper estimate for background arsenic (99th percentile) of 11 mg/kg.

[5] Samples collected by WSP on 1/10/2019. Sample nomenclature is as follows: "sample type - sample location - (depth)".

[6] All Arsenic concentrations are below background concentrations established by the SF Water Board and DTSC.

Table 3

**Summary of TPH Concentrations
Former Vallco Mall**

<u>Sample ID</u> ^{[1][2]}	<u>TPH-g</u> (mg/kg)	<u>TPH-d</u> (mg/kg)	<u>TPH-mo</u> (mg/kg)
S-1-(1)	1 U	12 Y	270
S-1-(5)	1.1 U	1.3 Y	3.3 J
S-1-(10)	1.1 U	0.48 JY	5 U
S-1-(15)	1 U	0.99 JY	5 U
S-1-(20)	1.1 U	0.55 JY	1.8 JY
S-2-(1)	1.1 U	0.82 JY	5.3
S-2-(5)	1.1 U	11 Y	260
S-2-(10)	1.1 U	22 Y	500
S-2-(15)	1.1 U	0.4 JY	5 U
S-2-(20)	1.1 U	0.42 JY	5 U
S-3-(1)	0.93 U	68 Y	1,600
S-3-(5)	1 U	0.87 JY	2.1 JY
S-3-(10)	1.1 U	2.2 Y	8.2
S-3-(15)	1.1 U	0.93 JY	15
S-3-(20)	0.94 U	1.2 Y	11
S-4-(1)	1.1 U	14 Y	34
S-4-(5)	1.1 U	6.4 Y	100
S-4-(10)	1.1 U	1 Y	9.1
S-4-(15)	1 U	3.8 Y	68
S-4-(20)	1.1 U	1.1 Y	13
S-5-(1)	0.95 U	13 Y	34
S-5-(5)	1.1 U	1.3 Y	2.1 J
S-5-(10)	0.99 U	4.6 Y	97
S-5-(15)	1 U	0.33 JY	5 U
S-5-(20)	0.94 U	1.2 Y	18
S-6-(1)	0.91 U	68 Y	790
S-6-(5)	0.94 U	4 Y	37
S-6-(10)	0.94 U	0.59 JY	5 UB
S-6-(15)	1 U	0.55 JY	5 UB
S-6-(20)	1.1 U	0.57 JY	5 U
S-7-(2)	3.2 Y	61	21
S-7-(5)	0.97 U	0.96 J	1.7 J
S-7-(10)	1.1 U	0.74 JY	5 U
S-7-(15)	0.14 J	0.57 JY	5 U
S-7-(20)	1 U	0.83 JY	1.6 JB
S-8-(1)	1 U	36 Y	1,100
S-8-(5)	1 U	0.76 JY	1.5 JB
S-8-(10)	1.1 U	0.7 JY	5 UB
S-8-(15)	0.94 U	0.85 JY	1.7 J
S-8-(20)	1.1 U	0.7 JY	2.2 J
ESLs Residential (mg/kg)	430	260	12,000
RSLs Residential (mg/kg)	RSLs are for TPH aliphatic and aromatic analytes only		

Table 3

**Summary of TPH Concentrations
Former Vallco Mall**

<u>Sample ID</u> ^{[1][2]}	<u>TPH-g</u> (mg/kg)	<u>TPH-d</u> (mg/kg)	<u>TPH-mo</u> (mg/kg)
W-1-(1)	1 U	12 Y	220
W-1-(5)	0.94 U	1.1 Y	12 B
W-1-(10)	0.93 U	2.3 Y	14
W-1-(15)	1 U	1.4 Y	20
W-1-(20)	0.91 U	0.61 J	5 U
W-2-(2)	0.93 U	5.5 J	98
W-2-(5)	0.94 U	0.61 J	1.9 J
W-2-(10)	0.93 U	0.74 J	3.8 J
W-2-(15)	0.99 U	2.4 B Y	2.4 J
W-2-(20)	1.1 U	41 B Y	440
W-3-(1)	0.93 U	4.7 B Y	25
W-3-(5)	1.1 U	2.4 B Y	2.4 J
W-3-(10)	0.97 U	1.9 B Y	2.2 J
W-3-(15)	0.93 U	1.1 B Y	5 U
W-3-(20)	1.1 U	1.6 B Y	2.1 J
W-4-(1)	1.1 U	4.5 B Y	11
W-4-(5)	1.1 U	3 Y	14
W-4-(10)	1.1 U	1.5 Y	6
W-4-(15)	0.94 U	0.6 J	2.1 J
W-4-(20)	1.1 U	1.1 Y	15
W-5-(1)	0.97 U	1.7 Y	4.5 JYZB
W-5-(5)	0.92 U	0.7 JY	5.8 B
W-5-(10)	0.93 U	0.71 JY	3.3 JYZB
W-5-(15)	1 U	0.66 JY	7.5 B
W-5-(20)	1.1 U	0.83 JY	3.3 JB
E-2-(1)	0.91 U	0.79 J	2.8 J
E-2-(5)	1.1 U	11 Y	44
E-2-(10)	0.93 U	1.5 Y	13
E-2-(15)	1.1 U	2.7 Y	28
E-2-(20)	0.91 U	1.5 Y	3.1 J
ESLs Residential (mg/kg)	430	260	12,000
RSLs Residential (mg/kg)	RSLs are for TPH aliphatic and aromatic analytes only		

Table 3

Summary of TPH Concentrations
Former Vallco Mall

<u>Sample ID</u> ^{[2][3]}	<u>TPH-g</u> (mg/kg)	<u>TPH-d</u> (mg/kg)	<u>TPH-mo</u> (mg/kg)
E1-1	2.7 U	120 J	841
E1-2	2.5 U	2.4 U	2.4 U
E1-3	2.4 U	2.5 U	2.5 U
E1-4	2.2 U	2.5 U	2.78 J
E1-8	2.5 U	2.6 U	2.6 U
E2-1	2.4 U	2.86 J	11.4
E2-2	2.2 U	2.5 U	2.5 U
E2-3	2.6 U	2.6 U	2.6 U
E2-5	2.6 U	2.5 U	2.5 U
E2-7	2.7 U	2.6 U	2.6 U
E3-1	2.8 U	2.5 U	6.52
E3-2	2.5 U	4.6 J	6.48
E3-4	2.7 U	2.4 U	2.4 J
E3-6	2.4 U	2.5 U	2.5 U
E4-1	2.2 U	2.5 U	3.6 J
E4-2	2.6 U	2.5 U	2.5 U
E4-3	3.1 U	2.5 U	2.5 U
E5-1	2.8 U	88.3	218
E5-2	2.4 U	3.02 J	10.8
E5-3	2.1 U	2.5 U	3.77 J
E6-1	2.8 U	6.24	23.9
E6-2	2.2 U	2.5 U	7.59
E6-4	2.3 U	2.5 U	3.42 J
E7-1	2.1 U	10.1	29.7
E7-2	2.1 U	2.5 U	5.22
E7-3	2.1 U	2.5 U	2.5 U
E7-5	2.4 U	2.5 U	2.5 U
E8-1	1.9 U	10.5	44.5
E8-2	2.1 U	2.5 U	7.88
E8-3	1.9 U	2.5 U	2.5 U
E8-4	2.4 U	2.5 U	2.5 U
E8-5	2.2 U	2.5 U	2.5 U
ESLs Residential (mg/kg)	430	260	12,000
RSLs Residential (mg/kg)	RSLs are for TPH aliphatic and aromatic analytes only		

Table 3

Summary of TPH Concentrations
Former Vallco Mall

Notes:

mg/kg = micrograms per kilogram

ESLs Residential = Environmental Screening Levels (ESLs) for direct exposure to human health for residential shallow soil exposure as established by the San Francisco (SF) Water Board, revised January 2019. Screening levels listed are for either cancer risk or non-cancer hazards; if a screening level for both cancer risk and non-cancer hazards existed, the lower screening level was listed.

RSLs Residential = Regional Screening Levels (RSLs) for exposure to cancer/noncancer residential soil established by the Department of Toxic Substances Control (DTSC), revised November 2018.

U = compound was not detected at a concentration greater than the reporting limit shown

J = compound was detected at a concentration less than the laboratory reporting limit, but greater than the method detection limit

Y = Sample exhibits chromatographic pattern which does not resemble standard

B = compound was detected in associated method blank

Z = Sample exhibits unknown single peak or peaks

-- = not applicable or not available

[1] Samples collected by WSP on 10/30 & 10/31/18. Sample nomenclature is as follows: "sample location - (sample depth)". Gray gradient indicates

[2] Bold results indicate the concentration is greater than the reporting limit; results in red font indicate exceedance of screening levels.

[3] Samples collected by Geosphere consultants, inc. on September 6, 2016

Table 4

**Summary of SVOC and PAH Concentrations
Former Vallco Mall**

Sample ID ^{[1][2][3]}	ESL Residential (µg/kg) ^[4]	RSLs Residential (µg/kg) ^[5]	S-1-(1) (µg/kg)	S-1-(5) (µg/kg)	S-2-(1) (µg/kg)	S-2-(5) (µg/kg)	S-3-(1) (µg/kg)	S-3-(5) (µg/kg)
Naphthalene	3.80E+03	3.8E+03	320 U	10 U	10 U	1,000 U	990 U	10 U
2-Methylnaphthalene	2.40E+05	2.4E+05	250 U	10 U	10 U	1,000 U	990 U	10 U
Benzo(a)anthracene	1.10E+03	1.1E+03	210 U	10 U	10 U	1,000 U	1,000 U	10 U
Benzo(a)pyrene	1.10E+02	1.1E+02	210 U	9 U	8.8 U	880 U	870 U	8.8 U
Benzo(b)fluoranthene	1.10E+03	1.1E+03	210 U	9 U	9 U	900 U	890 U	9 U
Benzo(g,h,i)perylene	--	--	210 U	10 U	10 U	1,000 U	1,000 U	10 U
Benzo(k)fluoranthene	1.10E+04	1.1E+04	210 U	9 U	9.5 U	950 U	940 U	9.5 U
bis(2-Ethylhexyl)phthalate	3.90E+04	3.9E+04	210 U	13 U	13 U	1,300 U	1,300 U	13 U
Chrysene	1.10E+05	1.1E+05	210 U	11 U	11 U	1,100 U	1,100 U	11 U
Dibenz(a,h)anthracene	1.10E+02	1.1E+02	210 U	9 U	9.4 U	940 U	930 U	9.4 U
Di-n-butylphthalate	--	6.3E+06	240 U	12 U	12 U	1,200 U	1,200 U	12 U
Indeno(1,2,3-cd)pyrene	1.10E+03	1.1E+03	210 U	9 U	8.9 U	890 U	880 U	8.9 U
Pyrene	1.80E+06	1.8E+06	210 U	11 U	11 U	1,100 U	1,100 U	11 U
1-Methylnaphthalene	--	1.8E+04	--	--	--	--	--	--

Table 4

**Summary of SVOC and PAH Concentrations
Former Vallco Mall**

Sample ID ^{[1][2][3]}	ESL Residential (µg/kg)^[4]	RSLs Residential (µg/kg)^[5]	S-4-(1) (µg/kg)	S-4-(5) (µg/kg)	S-5-(1) (µg/kg)	S-5-(5) (µg/kg)	S-6-(1) (µg/kg)	S-6-(5) (µg/kg)
Naphthalene	3.80E+03	3.8E+03	100 U	99 U	13 U	10 U	250 U	20 U
2-Methylnaphthalene	2.40E+05	2.4E+05	100 U	99 U	9.9 U	10 U	250 U	20 U
Benzo(a)anthracene	1.10E+03	1.1E+03	100 U	100 U	8.4 U	10 U	250 U	20 U
Benzo(a)pyrene	1.10E+02	1.1E+02	88 U	87 U	8.4 U	8.8 U	220 U	18 U
Benzo(b)fluoranthene	1.10E+03	1.1E+03	90 U	89 U	8.4 U	9 U	220 U	18 U
Benzo(g,h,i)perylene	--	--	100 U	100 U	8.4 U	10 U	250 U	20 U
Benzo(k)fluoranthene	1.10E+04	1.1E+04	95 U	94 U	8.4 U	9.6 U	240 U	19 U
bis(2-Ethylhexyl)phthalate	3.90E+04	3.9E+04	130 U	130 U	9 J	13 U	330 U	26 U
Chrysene	1.10E+05	1.1E+05	110 U	110 U	8.4 U	11 U	280 U	23 U
Dibenz(a,h)anthracene	1.10E+02	1.1E+02	94 U	92 U	8.4 U	9.4 U	230 U	19 U
Di-n-butylphthalate	--	6.3E+06	120 U	120 U	9.5 U	12 U	300 U	24 U
Indeno(1,2,3-cd)pyrene	1.10E+03	1.1E+03	89 U	87 U	8.4 U	8.9 U	220 U	18 U
Pyrene	1.80E+06	1.8E+06	110 U	110 U	8.4 U	11 U	270 U	22 U
1-Methylnaphthalene	--	1.8E+04	--	--	--	--	--	--

Table 4

**Summary of SVOC and PAH Concentrations
Former Vallco Mall**

Sample ID ^{[1][2][3]}	ESL Residential (µg/kg) ^[4]	RSLs Residential (µg/kg) ^[5]	S-7-(2) (µg/kg)	S-7-(5) (µg/kg)	S-8-(1) (µg/kg)	S-8-(5) (µg/kg)	W-1-(1) (µg/kg)	W-1-(5) (µg/kg)
Naphthalene	3.80E+03	3.8E+03	150 J	13 U	990 U	13 U	1,300 U	26 U
2-Methylnaphthalene	2.40E+05	2.4E+05	590	9.9 U	990 U	10 U	990 U	20 U
Benzo(a)anthracene	1.10E+03	1.1E+03	52 U	8.3 U	1,000 U	8.5 U	840 U	17 U
Benzo(a)pyrene	1.10E+02	1.1E+02	44 U	8.3 U	870 U	8.5 U	840 U	17 U
Benzo(b)fluoranthene	1.10E+03	1.1E+03	45 U	8.3 U	890 U	8.5 U	840 U	17 U
Benzo(g,h,i)perylene	--	--	51 U	8.3 U	1,000 U	8.5 U	840 U	17 U
Benzo(k)fluoranthene	1.10E+04	1.1E+04	48 U	8.3 U	940 U	8.5 U	840 U	17 U
bis(2-Ethylhexyl)phthalate	3.90E+04	3.9E+04	66 U	8.5 U	1,300 U	8.6 U	850 U	17 U
Chrysene	1.10E+05	1.1E+05	57 U	8.3 U	1,100 U	8.5 U	840 U	17 U
Dibenz(a,h)anthracene	1.10E+02	1.1E+02	47 U	8.3 U	930 U	8.5 U	840 U	17 U
Di-n-butylphthalate	--	6.3E+06	61 U	12 J	1,200 U	9.6 U	950 U	19 U
Indeno(1,2,3-cd)pyrene	1.10E+03	1.1E+03	44 U	8.3 U	870 U	8.5 U	840 U	17 U
Pyrene	1.80E+06	1.8E+06	55 U	8.3 U	1,100 U	8.5 U	840 U	17 U
1-Methylnaphthalene	--	1.8E+04	--	--	--	--	--	--

Table 4

**Summary of SVOC and PAH Concentrations
Former Vallco Mall**

Sample ID ^{[1][2][3]}	ESL Residential (µg/kg) ^[4]	RSLs Residential (µg/kg) ^[5]	W-2-(2) (µg/kg)	W-2-(5) (µg/kg)	W-3-(1) (µg/kg)	W-3-(5) (µg/kg)	W-4-(1) (µg/kg)	W-4-(5) (µg/kg)
Naphthalene	3.80E+03	3.8E+03	260 U	13 U	100 U	10 U	50 U	50 U
2-Methylnaphthalene	2.40E+05	2.4E+05	200 U	9.9 U	100 U	10 U	50 U	50 U
Benzo(a)anthracene	1.10E+03	1.1E+03	170 U	8.4 U	100 U	10 U	51 U	51 U
Benzo(a)pyrene	1.10E+02	1.1E+02	170 U	8.4 U	88 U	8.9 U	44 U	44 U
Benzo(b)fluoranthene	1.10E+03	1.1E+03	170 U	8.4 U	90 U	9.1 U	45 U	45 U
Benzo(g,h,i)perylene	--	--	170 U	8.4 U	100 U	10 U	50 U	51 U
Benzo(k)fluoranthene	1.10E+04	1.1E+04	170 U	8.4 U	95 U	9.6 U	47 U	48 U
bis(2-Ethylhexyl)phthalate	3.90E+04	3.9E+04	170 U	8.5 U	130 U	13 U	65 U	65 U
Chrysene	1.10E+05	1.1E+05	170 U	8.4 U	110 U	11 U	56 U	57 U
Dibenz(a,h)anthracene	1.10E+02	1.1E+02	170 U	8.4 U	93 U	9.5 U	46 U	47 U
Di-n-butylphthalate	--	6.3E+06	190 U	11 J	120 U	12 U	60 U	61 U
Indeno(1,2,3-cd)pyrene	1.10E+03	1.1E+03	170 U	8.4 U	88 U	9 U	44 U	44 U
Pyrene	1.80E+06	1.8E+06	170 U	8.4 U	110 U	11 U	54 U	55 U
1-Methylnaphthalene	--	1.8E+04	--	--	--	--	--	--

Table 4

**Summary of SVOC and PAH Concentrations
Former Vallco Mall**

Sample ID ^{[1][2][3]}	ESL Residential (µg/kg) ^[4]	RSLs Residential (µg/kg) ^[5]	W-5-(1) (µg/kg)	W-5-(5) (µg/kg)	E-2-(1) (µg/kg)	E-2-(5) (µg/kg)
Naphthalene	3.80E+03	3.8E+03	13 U	26 U	13 U	130 U
2-Methylnaphthalene	2.40E+05	2.4E+05	9.9 U	20 U	9.8 U	99 U
Benzo(a)anthracene	1.10E+03	1.1E+03	8.4 U	17 U	8.3 U	83 U
Benzo(a)pyrene	1.10E+02	1.1E+02	8.4 U	17 U	8.3 U	83 U
Benzo(b)fluoranthene	1.10E+03	1.1E+03	8.4 U	17 U	8.3 U	83 U
Benzo(g,h,i)perylene	--	--	8.4 U	17 U	8.3 U	83 U
Benzo(k)fluoranthene	1.10E+04	1.1E+04	8.4 U	17 U	8.3 U	83 U
bis(2-Ethylhexyl)phthalate	3.90E+04	3.9E+04	8.5 U	17 U	18 J	85 U
Chrysene	1.10E+05	1.1E+05	8.4 U	17 U	8.3 U	83 U
Dibenz(a,h)anthracene	1.10E+02	1.1E+02	8.4 U	17 U	8.3 U	83 U
Di-n-butylphthalate	--	6.3E+06	9.5 U	19 U	9.4 U	95 U
Indeno(1,2,3-cd)pyrene	1.10E+03	1.1E+03	8.4 U	17 U	8.3 U	83 U
Pyrene	1.80E+06	1.8E+06	8.4 U	17 U	8.3 U	83 U
1-Methylnaphthalene	--	1.8E+04	--	--	--	--

Table 4

**Summary of SVOC and PAH Concentrations
Former Vallco Mall**

Sample ID ^{[1][2][3]}	ESL Residential (µg/kg) ^[4]	RSLs Residential (µg/kg) ^[5]	E1-1 ^[6] (µg/kg)		E1-2 ^[6] (µg/kg)		E1-3 ^[6] (µg/kg)		E1-4 ^[6] (µg/kg)		E1-8 ^[6] (µg/kg)		E2-1 ^[6] (µg/kg)	
Naphthalene	3.80E+03	3.8E+03	110	U	26	U	27	U	27	U	26	U	26	U
2-Methylnaphthalene	2.40E+05	2.4E+05	178	J	26	U	27	U	27	U	26	U	26	U
Benzo(a)anthracene	1.10E+03	1.1E+03	14	U	3.2	U	3.3	U	3.4	U	3.2	U	3.3	U
Benzo(a)pyrene	1.10E+02	1.1E+02	29.7	J	3.2	U	3.3	U	3.4	U	3.2	U	3.3	U
Benzo(b)fluoranthene	1.10E+03	1.1E+03	41.6	J	3.2	U	3.3	U	3.4	U	3.2	U	3.3	U
Benzo(g,h,i)perylene	--	--	31.6	J	3.2	U	3.3	U	3.4	U	3.2	U	3.3	U
Benzo(k)fluoranthene	1.10E+04	1.1E+04	20.3	J	3.2	U	3.3	U	3.4	U	3.2	U	3.3	U
bis(2-Ethylhexyl)phthalate	3.90E+04	3.9E+04	33	U	33	U	33	U	33	U	33	U	38.8	J
Chrysene	1.10E+05	1.1E+05	55.3		3.2	U	3.3	U	3.4	U	3.2	U	3.3	U
Dibenz(a,h)anthracene	1.10E+02	1.1E+02	17.6	J	3.2	U	3.3	U	3.4	U	3.2	U	3.3	U
Di-n-butylphthalate	--	6.3E+06	67	U	66	U	66	U	66	U	66	U	67	U
Indeno(1,2,3-cd)pyrene	1.10E+03	1.1E+03	14	U	3.2	U	3.3	U	3.4	U	3.2	U	3.3	U
Pyrene	1.80E+06	1.8E+06	68	U	16	U	17	U	17	U	16	U	16	U
1-Methylnaphthalene	--	1.8E+04	168	J	26	U	27	U	27	U	26	U	26	U

Table 4

**Summary of SVOC and PAH Concentrations
Former Vallco Mall**

Sample ID ^{[1][2][3]}	ESL Residential (µg/kg) ^[4]	RSLs Residential (µg/kg) ^[5]	E2-2 ^[6] (µg/kg)	E2-3 ^[6] (µg/kg)	E2-5 ^[6] (µg/kg)	E2-7 ^[6] (µg/kg)	E3-1 ^[6] (µg/kg)	E3-2 ^[6] (µg/kg)
Naphthalene	3.80E+03	3.8E+03	27 U	26 U	26 U	27 U	26 U	27 U
2-Methylnaphthalene	2.40E+05	2.4E+05	27 U	26 U	26 U	27 U	26 U	27 U
Benzo(a)anthracene	1.10E+03	1.1E+03	3.4 U	3.2 U	3.3 U	3.4 U	3.2 U	3.4 U
Benzo(a)pyrene	1.10E+02	1.1E+02	3.4 U	3.2 U	3.3 U	3.4 U	3.2 U	3.4 U
Benzo(b)fluoranthene	1.10E+03	1.1E+03	3.4 U	3.2 U	3.3 U	3.4 U	3.2 U	3.4 U
Benzo(g,h,i)perylene	--	--	3.4 U	3.2 U	3.3 U	3.4 U	3.2 U	3.4 U
Benzo(k)fluoranthene	1.10E+04	1.1E+04	3.4 U	3.2 U	3.3 U	3.4 U	3.2 U	3.4 U
bis(2-Ethylhexyl)phthalate	3.90E+04	3.9E+04	33 U	33 U	33 U	34 U	33 U	33 U
Chrysene	1.10E+05	1.1E+05	3.4 U	3.2 U	3.3 U	3.4 U	3.2 U	3.4 U
Dibenz(a,h)anthracene	1.10E+02	1.1E+02	3.4 U	3.2 U	3.3 U	3.4 U	3.2 U	3.4 U
Di-n-butylphthalate	--	6.3E+06	66 U	66 U	66 U	67 U	66 U	67 U
Indeno(1,2,3-cd)pyrene	1.10E+03	1.1E+03	3.4 U	3.2 U	3.3 U	3.4 U	3.2 U	3.4 U
Pyrene	1.80E+06	1.8E+06	17 U	16 U	16 U	17 U	16 U	17 U
1-Methylnaphthalene	--	1.8E+04	27 U	26 U	26 U	27 U	26 U	27 U

Table 4

**Summary of SVOC and PAH Concentrations
Former Vallco Mall**

Sample ID ^{[1][2][3]}	ESL Residential (µg/kg) ^[4]	RSLs Residential (µg/kg) ^[5]	E3-4 ^[6] (µg/kg)		E3-6 ^[6] (µg/kg)		E4-1 ^[6] (µg/kg)		E4-2 ^[6] (µg/kg)		E4-3 ^[6] (µg/kg)		E5-1 ^[6] (µg/kg)	
Naphthalene	3.80E+03	3.8E+03	28	U	27	U	27	U	26	U	27	U	26	U
2-Methylnaphthalene	2.40E+05	2.4E+05	28	U	27	U	27	U	26	U	27	U	26	U
Benzo(a)anthracene	1.10E+03	1.1E+03	3.4	U	3.3	U	3.4	U	3.3	U	3.4	U	24.6	
Benzo(a)pyrene	1.10E+02	1.1E+02	3.4	U	3.3	U	3.4	U	3.3	U	3.4	U	23.3	
Benzo(b)fluoranthene	1.10E+03	1.1E+03	3.4	U	3.3	U	3.4	U	3.3	U	3.4	U	19.4	
Benzo(g,h,i)perylene	--	--	3.4	U	3.3	U	3.4	U	3.3	U	3.4	U	40.2	
Benzo(k)fluoranthene	1.10E+04	1.1E+04	3.4	U	3.3	U	3.4	U	3.3	U	3.4	U	7.3	J
bis(2-Ethylhexyl)phthalate	3.90E+04	3.9E+04	33	U	34	U	33	U	34	U	33	U	34	U
Chrysene	1.10E+05	1.1E+05	3.4	U	3.3	U	3.4	U	3.3	U	3.4	U	85.8	
Dibenz(a,h)anthracene	1.10E+02	1.1E+02	3.4	U	3.3	U	3.4	U	3.3	U	3.4	U	12.6	J
Di-n-butylphthalate	--	6.3E+06	66	U	67	U	67	U	68	U	66	U	67.0	U
Indeno(1,2,3-cd)pyrene	1.10E+03	1.1E+03	3.4	U	3.3	U	3.4	U	3.3	U	3.4	U	9.3	J
Pyrene	1.80E+06	1.8E+06	17	U	17	U	17	U	16	U	17	U	30.9	J
1-Methylnaphthalene	--	1.8E+04	28	U	27	U	27	U	26	U	27	U	26.0	U

Table 4

**Summary of SVOC and PAH Concentrations
Former Vallco Mall**

Sample ID ^{[1][2][3]}	ESL Residential (µg/kg) ^[4]	RSLs Residential (µg/kg) ^[5]	E5-2 ^[6] (µg/kg)		E5-3 ^[6] (µg/kg)		E6-1 ^[6] (µg/kg)		E6-2 ^[6] (µg/kg)		E6-4 ^[6] (µg/kg)		E7-1 ^[6] (µg/kg)		E7-2 ^[6] (µg/kg)	
Naphthalene	3.80E+03	3.8E+03	26	U	27	U	27	U	27	U	27	U	27	U	26	U
2-Methylnaphthalene	2.40E+05	2.4E+05	26	U	27	U	27	U	27	U	27	U	27	U	26	U
Benzo(a)anthracene	1.10E+03	1.1E+03	3.3	U	3.4	U	3.4	U	3.4	U	3.4	U	3.4	U	3.3	U
Benzo(a)pyrene	1.10E+02	1.1E+02	3.3	U	3.4	U	3.4	U	3.4	U	3.4	U	3.4	U	3.3	U
Benzo(b)fluoranthene	1.10E+03	1.1E+03	3.3	U	3.4	U	4.0	J	3.4	U	3.4	U	3.4	U	3.3	U
Benzo(g,h,i)perylene	--	--	3.3	U	3.4	U	3.4	U	3.4	U	3.4	U	3.4	U	3.3	U
Benzo(k)fluoranthene	1.10E+04	1.1E+04	3.3	U	3.4	U	3.4	U	3.4	U	3.4	U	3.4	U	3.3	U
bis(2-Ethylhexyl)phthalate	3.90E+04	3.9E+04	33	U	33	U	33	U	33	U	33	U	33	U	33	U
Chrysene	1.10E+05	1.1E+05	3.3	U	3.4	U	4.9	J	3.4	U	3.4	U	3.4	U	3.3	U
Dibenz(a,h)anthracene	1.10E+02	1.1E+02	3.3	U	3.4	U	3.4	U	3.4	U	3.4	U	3.4	U	3.3	U
Di-n-butylphthalate	--	6.3E+06	67	U	66	U	66	U	67	U	67	U	67	U	66	U
Indeno(1,2,3-cd)pyrene	1.10E+03	1.1E+03	3.3	U	3.4	U	3.4	U	3.4	U	3.4	U	3.4	U	3.3	U
Pyrene	1.80E+06	1.8E+06	16	U	17	U	17	U	17	U	17	U	17	U	17	U
1-Methylnaphthalene	--	1.8E+04	26	U	27	U	27	U	27	U	27	U	27	U	26	U

Table 4

**Summary of SVOC and PAH Concentrations
Former Vallco Mall**

Sample ID ^{[1][2][3]}	ESL Residential (µg/kg) ^[4]	RSLs Residential (µg/kg) ^[5]	E7-3 ^[6] (µg/kg)		E7-5 ^[6] (µg/kg)		E8-1 ^[6] (µg/kg)		E8-2 ^[6] (µg/kg)		E8-3 ^[6] (µg/kg)		E8-4 ^[6] (µg/kg)		E8-5 ^[6] (µg/kg)	
Naphthalene	3.80E+03	3.8E+03	27	U	27	U	26	U	26	U	27	U	26	U	26	U
2-Methylnaphthalene	2.40E+05	2.4E+05	27	U	27	U	26	U	26	U	27	U	26	U	26	U
Benzo(a)anthracene	1.10E+03	1.1E+03	3.4	U	3.4	U	3.3	U	3.2	U	3.3	U	3.3	U	3.3	U
Benzo(a)pyrene	1.10E+02	1.1E+02	3.4	U	3.4	U	3.3	U	3.2	U	3.3	U	3.3	U	3.3	U
Benzo(b)fluoranthene	1.10E+03	1.1E+03	3.4	U	3.4	U	3.3	U	3.2	U	3.3	U	3.3	U	3.3	U
Benzo(g,h,i)perylene	--	--	3.4	U	3.4	U	3.3	U	3.2	U	3.3	U	3.3	U	3.3	U
Benzo(k)fluoranthene	1.10E+04	1.1E+04	3.4	U	3.4	U	3.3	U	3.2	U	3.3	U	3.3	U	3.3	U
bis(2-Ethylhexyl)phthalate	3.90E+04	3.9E+04	33	U	33	U	33	U	33	U	33	U	33	U	33	U
Chrysene	1.10E+05	1.1E+05	3.4	U	3.4	U	3.3	U	3.2	U	3.3	U	3.3	U	3.3	U
Dibenz(a,h)anthracene	1.10E+02	1.1E+02	3.4	U	3.4	U	3.3	U	3.2	U	3.3	U	3.3	U	3.3	U
Di-n-butylphthalate	--	6.3E+06	67	U	67	U	67	U	67	U	66	U	66	U	67	U
Indeno(1,2,3-cd)pyrene	1.10E+03	1.1E+03	3.4	U	3.4	U	3.3	U	3.2	U	3.3	U	3.3	U	3.3	U
Pyrene	1.80E+06	1.8E+06	17	U	17	U	16	U	16	U	17	U	17	U	16	U
1-Methylnaphthalene	--	1.8E+04	27	U	27	U	26	U	26	U	27	U	26	U	26	U

Table 4

**Summary of SVOC and PAH Concentrations
Former Vallco Mall**

Notes:

ug/kg = milligrams per kilogram

U = compound was not detected at a concentration greater than the method detection limit shown

J = compound was detected at a concentration less than the laboratory reporting limit, but greater than the method detection limit

ND = compound was not detected at a concentration greater than the method detection limit

-- = not applicable or not available

[1] Samples collected by WSP on 10/30 & 10/31/18. Sample nomenclature is as follows: "sample location - (sample depth)".

[2] Bold results indicate the concentration is greater than the reporting limit.

[3] Only SVOCs or PAHs detected above the method detection limit in at least one boring are shown. All other SVOC or PAH compounds were not

[4] = Environmental Screening Levels (ESLs) for direct exposure to human health for residential shallow soil exposure as established by the San Francisco (SF) Water Board, revised January 2019. Screening levels listed are for either cancer risk or non-cancer hazards; if a screening level for both cancer risk and non-cancer hazards existed, the lower screening level was listed.

[5] Regional Screening Levels (RSLs) for exposure to cancer/noncancer residential soil established by the Department of Toxic Substances Control (DTSC), revised November 2018. Concentration in µg/kg.

[6] Samples collected by Geosphere consultants, inc. on September 6, 2016

Table 5

**Summary of Pesticide Concentrations
Former Vallco Mall**

<u>Sample ID</u> ^{[1][2][8]}	4,4'-DDD (µg/kg)	4,4'-DDE (µg/kg)	4,4'-DDT (µg/kg)	Aldrin (µg/kg)	alpha-BHC (µg/kg)	alpha-Chlordane^[5] (µg/kg)
S-1-(1)	1.5 U	19 J	11 J	0.61 U	1 U	1.8 U
S-1-(5)	0.079 U	9.1 #	3.4	0.061 U	0.1 U	0.18 U
S-2-(1)	0.57 J	3.5 #	1.3 J	0.06 U	0.099 U	0.18 U
S-2-(5)	1.6 U	1.6 U	1.8 U	1.2 U	2 U	3.6 U
S-3-(1)	4 U	4 U	4.5 U	3 U	5 U	8.9 U
S-3-(5)	0.59 J C	3.3 #	0.34 U	0.061 U	0.1 U	0.18 U
S-4-(1)	6.3 #	65 #	1.2 J C	0.14 J C	0.23 J	0.18 U
S-4-(5)	0.079 U	0.098 U	0.089 U	0.06 U	0.099 U	0.18 U
S-5-(1)	0.16 U	0.18 J C	0.65 U	0.12 U	0.2 U	0.35 U
S-5-(5)	0.48 J	1.5 J	0.088 U	0.06 U	0.098 U	0.17 U
S-6-(1)	0.15 U	1.2 J	0.33 U	0.091 U	0.087 U	0.14 U
S-6-(5)	1.6 U	1.6 U	1.7 U	1.2 U	2 U	3.5 U
S-7-(2)	3.2 C	63 #	7.4 C #	0.97 J C	0.09 U	4.2 C #
S-7-(5)	0.19 J C	0.88 J	0.85 J	0.061 U	0.1 U	0.18 U
S-8-(1)	0.81 U	1.5 J C	0.92 U	0.62 U	1 U	1.8 U
S-8-(5)	0.082 U	0.082 U	0.092 U	0.062 U	0.1 U	0.18 U
W-1-(1)	0.16 U	0.16 U	0.18 U	0.13 U	0.21 U	0.37 U
W-1-(5)	0.08 U	0.08 U	0.09 U	0.061 U	0.1 U	0.18 U
W-2-(2)	1.5 J C	0.08	38 #	0.46 U	0.44 U	0.7 U
W-2-(5)	0.078 U	0.078 U	0.088 U	0.06 U	0.099 U	0.18 U
W-3-(1)	0.078 U	0.35 J	0.088 U	0.06 U	0.099 U	0.18 U
W-3-(5)	0.08 U	0.08 U	0.09 U	0.061 U	0.1 U	0.18 U
W-4-(1)	2.4	35	13 #	0.061 U	0.1 U	0.15 J C
W-4-(5)	0.079 U	0.079 U	0.09 U	0.061 U	0.1 U	0.18 U
W-5-(1)	0.15 U	1.7 J	0.77 J	0.061 U	0.1 U	0.18 U
W-5-(5)	0.082 U	0.082 U	0.092 U	0.063 U	0.1 U	0.18 U
E-2-(1)	0.08 U	0.33 J	0.09 U	0.061 U	0.1 U	0.18 U
E-2-(5)	47 #	81 #	1.7 U	4.2 J	0.5 U	1.2 J C
ESLs Residential (µg/kg)	2.70E+03	1.80E+03	1.90E+03	3.50E+01	--	4.80E+02
RSLs Residential (µg/kg)	1.9E+03	2.0E+03	1.9E+03	3.9E+01	8.6E+01	1.7E+03

Table 5
Summary of Pesticide Concentrations
Former Vallco Mall

<u>Sample ID</u> ^{[2][3][8]}	4,4'-DDD (µg/kg)	4,4'-DDE (µg/kg)	4,4'-DDT (µg/kg)	Aldrin (µg/kg)	alpha-BHC (µg/kg)	alpha-Chlordane ^{[5][9]} (µg/kg)
E1-1	12 U	11 U	13 U	10 U	10 U	140 U
E1-2	0.56 U	0.53 U	0.64 U	0.5 U	0.5 U	6.5 U
E1-3	0.58 U	0.54 U	0.66 U	0.51 U	0.52 U	6.8 U
E1-4	0.57 U	0.53 U	0.64 U	0.5 U	0.51 U	6.6 U
E1-8	0.58 U	0.54 U	0.66 U	0.51 U	0.52 U	6.7 U
E2-1	0.57 U	0.53 U	0.65 U	0.5 U	0.51 U	6.6 U
E2-2	0.57 U	0.53 U	0.64 U	0.5 U	0.51 U	6.6 U
E2-3	0.58 U	0.54 U	0.66 U	0.51 U	0.52 U	6.7 U
E2-5	0.56 U	0.53 U	0.64 U	0.5 U	0.5 U	6.5 U
E2-7	0.57 U	0.54 U	0.65 U	0.51 U	0.51 U	6.7 U
E3-1	0.57 U	0.53 U	0.65 U	0.5 U	0.51 U	6.6 U
E3-2	1.7 J	20.8	0.65 U	0.51 U	0.51 U	6.7 U
E3-4	0.58 U	0.54 U	0.66 U	0.51 U	0.52 U	6.7 U
E3-6	0.56 U	0.52 U	0.64 U	0.49 U	0.5 U	6.5 U
E4-1	0.57 U	0.53 U	0.64 U	0.5 U	0.51 U	6.6 U
E4-2	0.58 U	0.54 U	0.66 U	0.51 U	0.52 U	6.7 U
E4-3	0.57 U	0.54 U	0.65 U	0.51 U	0.51 U	6.7 U
E5-1	22.6 J	5.4 U	33.6 J	5.1 U	5.2 U	68 U
E5-2	2.8 U	24.7	8.4 J	2.5 U	2.5 U	33 U
E5-3	0.57 U	0.53 U	0.65 U	0.5 U	0.51 U	6.6 U
E6-1	29.5 J	140	70.2	5.1 U	5.1 U	67 U
E6-2	0.57 U	0.54 U	0.65 U	0.51 U	0.51 U	6.7 U
E6-4	0.59 U	0.55 U	0.67 U	0.52 U	0.52 U	6.8 U
E7-1	2.9 U	8.8 J	3.3 U	2.5 U	2.6 U	33 U
E7-2	0.58 U	0.54 U	0.66 U	0.51 U	0.52 U	6.8 U
E7-3	0.57 U	0.54 U	0.65 U	0.51 U	0.51 U	6.7 U
E7-5	0.57 U	0.54 U	0.65 U	0.51 U	0.51 U	6.7 U
E8-1	0.56 U	0.63 J	1.2 J	0.49 U	0.5 U	6.5 U
E8-2	0.56 U	0.52 U	0.64 U	0.49 U	0.5 U	6.5 U
E8-3	0.57 U	0.53 U	0.64 U	0.5 U	0.51 U	6.6 U
E8-4	0.56 U	0.52 U	0.64 U	0.49 U	0.5 U	6.5 U
E8-5	0.57 U	0.54 U	0.65 U	0.51 U	0.51 U	6.7 U
ESLs Residential (µg/kg)	2.70E+03	1.80E+03	1.90E+03	3.50E+01	--	4.80E+02
RSLs Residential (µg/kg)	1.9E+03	2.0E+03	1.9E+03	3.9E+01	8.6E+01	1.7E+03

Table 5

**Summary of Pesticide Concentrations
Former Vallco Mall**

<u>Sample ID</u> ^{[1][2][8]}	beta-BHC (µg/kg)	delta-BHC (µg/kg)	Dieldrin (µg/kg)	Endosulfan I ^[6] (µg/kg)	Endosulfan II ^[6] (µg/kg)	Endosulfan sulfate (µg/kg)	Endrin (µg/kg)
S-1-(1)	0.64 U	0.8 U	3.8 J	0.8 U	0.8 U	0.74 U	0.66 U
S-1-(5)	0.064 U	0.079 U	0.79 J	0.079 U	0.079 U	0.074 U	0.066 U
S-2-(1)	0.063 U	0.079 U	0.99 J	0.11 U	0.079 U	0.073 U	0.065 U
S-2-(5)	1.3 U	1.6 U	1.6 U	1.6 U	1.6 U	1.5 U	1.3 U
S-3-(1)	3.2 U	4 U	4 U	4 U	4 U	3.7 U	3.3 U
S-3-(5)	0.065 U	0.08 U	0.17 J	0.08 U	0.08 U	0.18 U	0.066 U
S-4-(1)	0.087 J C	0.094 J C	15 #	0.079 U	0.079 U	0.18 U	0.066 U
S-4-(5)	0.064 U	0.079 U	0.079 U	0.079 U	0.079 U	0.073 U	0.066 U
S-5-(1)	0.13 U	0.16 U	0.16 U	0.16 U	0.18 J C	0.35 U	0.6 J C
S-5-(5)	0.063 U	0.078 U	0.8 J	0.078 U	0.078 U	0.072 U	0.065 U
S-6-(1)	0.11 U	0.15 U	0.086 U	0.11 U	0.12 U	0.17 U	0.2 U
S-6-(5)	1.3 U	1.6 U	2.2 J	1.6 U	1.6 U	1.4 U	4 U
S-7-(2)	0.065 U	0.16 U	36 C #	0.08 U	0.08 U	0.18 U	15 #
S-7-(5)	0.065 U	0.08 U	0.54 J	0.11 U	0.08 U	0.18 U	0.067 U
S-8-(1)	0.66 U	0.81 U	0.81 U	0.81 U	0.81 U	0.75 U	0.68 U
S-8-(5)	0.066 U	0.082 U	0.082 U	0.082 U	0.082 U	0.076 U	0.068 U
W-1-(1)	0.13 U	0.16 U	0.16 U	0.16 U	0.16 U	0.15 U	0.14 U
W-1-(5)	0.064 U	0.08 U	0.08 U	0.11 U	0.08 U	0.074 U	0.066 U
W-2-(2)	0.56 U	0.77 U	2.5 J	0.53 U	0.6 U	0.87 U	1 U
W-2-(5)	0.063 U	0.078 U	0.11 J C	0.21 J	0.078 U	0.073 U	0.2 U
W-3-(1)	0.063 U	0.078 U	0.078 U	0.078 U	0.078 U	0.073 U	0.2 U
W-3-(5)	0.064 U	0.08 U	0.08 U	0.08 U	0.08 U	0.074 U	0.21 U
W-4-(1)	0.064 U	0.08 U	2.9	0.08 U	0.08 U	0.074 U	0.21 U
W-4-(5)	0.064 U	0.079 U	0.079 U	0.079 U	0.079 U	0.074 U	0.21 U
W-5-(1)	0.064 U	0.08 U	0.15 J	0.08 U	0.08 U	0.074 U	0.066 U
W-5-(5)	0.066 U	0.082 U	0.082 U	0.11 U	0.082 U	0.076 U	0.068 U
E-2-(1)	0.065 U	0.08 U	0.24 J	0.08 U	0.08 U	0.074 U	0.066 U
E-2-(5)	0.32 U	0.4 U	81 #	0.6 J C	0.4 U	0.37 U	0.33 U
ESLs Residential (µg/kg)	--	--	3.70E+01	4.20E+05	4.20E+05	--	2.10E+04
RSLs Residential (µg/kg)	3.0E+02	--	3.4E+01	4.7E+05	470,000	--	1.9E+04

Table 5
Summary of Pesticide Concentrations
Former Vallco Mall

<u>Sample ID</u> ^{[2][3][8]}	beta-BHC (µg/kg)	delta-BHC (µg/kg)	Dieldrin (µg/kg)	Endosulfan I ^[6] (µg/kg)	Endosulfan II ^[6] (µg/kg)	Endosulfan sulfate (µg/kg)	Endrin (µg/kg)
E1-1	10 U	9.9 U	13 U	9.9 U	13 U	13 U	13 U
E1-2	0.5 U	0.48 U	0.61 U	0.48 U	0.6 U	0.61 U	0.61 U
E1-3	0.52 U	0.49 U	0.64 U	0.49 U	0.63 U	63 U	0.63 U
E1-4	0.5 U	0.48 U	0.62 U	0.48 U	0.61 U	0.62 U	0.61 U
E1-8	0.51 U	0.49 U	0.63 U	0.49 U	0.62 U	0.63 U	0.62 U
E2-1	0.51 U	0.48 U	0.62 U	0.48 U	0.61 U	0.62 U	0.62 U
E2-2	0.5 U	0.48 U	0.62 U	0.48 U	0.61 U	0.62 U	0.61 U
E2-3	0.51 U	0.49 U	0.63 U	0.49 U	0.62 U	0.63 U	0.62 U
E2-5	0.5 U	0.48 U	0.61 U	0.48 U	0.6 U	0.61 U	0.61 U
E2-7	0.51 U	0.49 U	0.63 U	0.49 U	0.62 U	0.62 U	0.62 U
E3-1	0.51 U	0.48 U	0.62 U	0.48 U	0.61 U	0.62 U	0.62 U
E3-2	0.51 U	0.49 U	2.5 J	0.49 U	0.62 U	0.62 U	0.62 U
E3-4	0.51 U	0.49 U	0.63 U	0.49 U	0.62 U	0.63 U	0.62 U
E3-6	0.5 U	0.47 U	0.61 U	0.47 U	0.6 U	0.61 U	0.6 U
E4-1	0.5 U	0.48 U	0.62 U	0.48 U	0.61 U	0.62 U	0.61 U
E4-2	0.51 U	0.49 U	0.63 U	0.49 U	0.62 U	0.63 U	0.62 U
E4-3	0.51 U	0.49 U	0.63 U	0.49 U	0.62 U	0.62 U	0.62 U
E5-1	5.2 U	4.9 U	6.4 U	4.9 U	6.3 U	6.3 U	6.3 U
E5-2	2.5 U	2.4 U	5.5 J	2.4 U	3.1 U	3.1 U	3.1 U
E5-3	0.51 U	0.48 U	0.62 U	0.48 U	0.61 U	0.62 U	0.62 U
E6-1	5.1 U	4.9 U	32.2	4.9 U	6.2 U	6.2 U	6.2 U
E6-2	0.51 U	0.49 U	0.63 U	0.49 U	0.62 U	0.62 U	0.62 U
E6-4	0.52 U	0.5 U	0.64 U	0.5 U	0.63 U	0.64 U	0.63 U
E7-1	2.6 U	2.4 U	4.9 J	8.3 U	8.3 U	3.1 U	3.1 U
E7-2	0.52 U	0.49 U	0.64 U	0.49 U	0.63 U	0.63 U	0.63 U
E7-3	0.51 U	0.49 U	0.63 U	0.49 U	0.62 U	0.62 U	0.62 U
E7-5	0.51 U	0.49 U	0.63 U	0.49 U	0.62 U	0.62 U	0.62 U
E8-1	0.5 U	0.47 U	0.61 U	0.47 U	0.6 U	0.61 U	0.6 U
E8-2	0.5 U	0.47 U	0.61 U	0.47 U	0.6 U	0.61 U	0.6 U
E8-3	0.5 U	0.48 U	0.62 U	0.48 U	0.61 U	0.62 U	0.61 U
E8-4	0.5 U	0.47 U	0.61 U	0.47 U	0.6 U	0.61 U	0.6 U
E8-5	0.51 U	0.49 U	0.63 U	0.49 U	0.62 U	0.62 U	0.62 U
ESLs Residential (µg/kg)	--	--	3.70E+01	4.20E+05	4.20E+05	--	2.10E+04
RSLs Residential (µg/kg)	3.0E+02	--	3.4E+01	4.7E+05	470,000	--	1.9E+04

Table 5
Summary of Pesticide Concentrations
Former Vallco Mall

<u>Sample ID</u> ^{[1][2][8]}	Endrin aldehyde (µg/kg)	gamma-BHC (µg/kg)	gamma-Chlordane ^[5] (µg/kg)	Heptachlor (µg/kg)	Heptachlor epoxide (µg/kg)	Methoxychlor (µg/kg)	Toxaphene (µg/kg)
S-1-(1)	5.9 U	0.81 U	1.2 J C	0.8 U	0.77 U	15 U	130 U
S-1-(5)	0.59 U	0.08 U	0.33 J	0.079 U	0.077 U	1.5 U	13 U
S-2-(1)	0.58 U	0.079 U	0.24 J C	0.079 U	0.076 U	1.5 U	13 U
S-2-(5)	12 U	1.6 U	2.2 U	1.6 U	1.5 U	30 U	270 U
S-3-(1)	29 U	4 U	5.5 U	4 U	3.8 U	76 U	660 U
S-3-(5)	0.59 U	0.081 U	0.34 J	0.08 U	0.077 U	1.5 U	13 U
S-4-(1)	0.58 U	0.12 U	0.14 U	0.079 U	0.076 U	1.5 U	13 U
S-4-(5)	0.58 U	0.08 U	0.14 U	0.079 U	0.076 U	1.5 U	13 U
S-5-(1)	1.1 U	0.16 U	0.27 U	0.16 U	0.15 U	3 U	26 U
S-5-(5)	0.57 U	0.079 U	0.23 J C	0.078 U	0.083 U	1.5 U	13 U
S-6-(1)	0.67 U	0.12 U	0.23 J	0.12 U	0.083 U	2.6 U	11 U
S-6-(5)	11 U	1.6 U	2.2 U	1.6 U	1.5 U	30 U	260 U
S-7-(2)	3.1 C #	0.081 U	22 C	0.08 U	10 C	2.7 U	13 U
S-7-(5)	0.59 U	0.081 U	0.14 J C	0.08 U	0.17 J	1.5 U	13 U
S-8-(1)	6 U	0.82 U	1.1 U	0.81 U	0.78 U	15 U	140 U
S-8-(5)	0.6 U	0.083 U	0.11 U	0.082 U	0.079 U	1.6 U	14 U
W-1-(1)	1.2 U	0.17 U	0.23 U	0.16 U	0.16 U	3.1 U	27 U
W-1-(5)	0.59 U	0.081 U	0.11 U	0.08 U	0.077 U	1.5 U	13 U
W-2-(2)	3.4 U	0.61 U	0.67 U	0.6 U	0.42 U	13 U	57 U
W-2-(5)	0.58 U	0.079 U	0.11 U	0.078 U	0.075 U	1.5 U	13 U
W-3-(1)	0.58 U	0.079 U	0.11 U	0.078 U	0.076 U	1.5 U	13 U
W-3-(5)	0.59 U	0.081 U	0.11 U	0.08 U	0.077 U	1.5 U	13 U
W-4-(1)	0.59 U	0.081 U	0.41 J C	0.08 U	0.077 U	1.5 U	13 U
W-4-(5)	0.59 U	0.08 U	0.11 U	0.079 U	0.077 U	1.5 U	13 U
W-5-(1)	0.59 U	0.081 U	0.22 J	0.08 U	0.077 U	1.5 U	13 U
W-5-(5)	0.6 U	0.083 U	0.11 U	0.082 U	0.079 U	1.6 U	14 U
E-2-(1)	0.59 U	0.081 U	0.11 U	0.08 U	0.077 U	1.5 U	13 U
E-2-(5)	2.9 U	0.4 U	0.68 U	0.4 U	0.38 U	7.6 U	66 U
ESLs Residential (µg/kg)	--	5.50E+02	4.80E+02	1.20E+02	6.20E+01	3.50E+05	5.10E+02
RSLs Residential (µg/kg)	--	5.7E+02	1.7E+03	1.3E+02	7.0E+01	3.2E+05	4.9E+02

Table 5
Summary of Pesticide Concentrations
Former Vallco Mall

<u>Sample ID</u> ^{[2][3][8]}	Endrin aldehyde (µg/kg)	gamma-BHC (µg/kg)	gamma-Chlordane ^{[5][9]} (µg/kg)	Heptachlor (µg/kg)	Heptachlor epoxide (µg/kg)	Methoxychlor (µg/kg)	Toxaphene (µg/kg)
E1-1	13 U	10 U	140 U	11 U	12 U	17 U	680 U
E1-2	0.61 U	0.5 U	6.5 U	0.56 U	0.57 U	0.84 U	33 U
E1-3	0.63 U	0.52 U	6.8 U	0.57 U	0.59 U	0.87 U	34 U
E1-4	0.61 U	0.5 U	6.6 U	0.56 U	0.58 U	8.5 U	33 U
E1-8	0.62 U	0.51 U	6.7 U	0.57 U	0.59 U	0.86 U	34 U
E2-1	0.62 U	0.51 U	6.6 U	0.56 U	0.58 U	8.5 U	33 U
E2-2	0.61 U	0.5 U	6.6 U	0.56 U	0.58 U	0.85 U	33 U
E2-3	0.62 U	0.51 U	6.7 U	0.57 U	0.59 U	0.86 U	34 U
E2-5	0.61 U	0.5 U	6.5 U	0.56 U	0.57 U	0.84 U	33 U
E2-7	0.62 U	0.51 U	6.7 U	0.57 U	0.58 U	0.86 U	33 U
E3-1	0.62 U	0.51 U	6.6 U	0.56 U	0.58 U	8.5 U	33 U
E3-2	0.62 U	0.51 U	6.7 U	0.57 U	0.58 U	0.86 U	33 U
E3-4	0.62 U	0.51 U	6.7 U	0.57 U	0.59 U	0.86 U	34 U
E3-6	0.6 U	0.5 U	6.5 U	0.55 U	0.57 U	0.83 U	32 U
E4-1	0.61 U	0.5 U	6.6 U	0.56 U	0.58 U	0.85 U	33 U
E4-2	0.62 U	0.51 U	6.7 U	0.57 U	0.59 U	0.86 U	34 U
E4-3	0.62 U	0.51 U	6.7 U	0.57 U	0.58 U	0.86 U	33 U
E5-1	6.3 U	5.2 U	68 U	5.7 U	5.9 U	8.7 U	340 U
E5-2	3.1 U	2.5 U	33 U	2.8 U	2.9 U	4.3 U	170 U
E5-3	0.62 U	0.51 U	6.6 U	0.56 U	0.58 U	0.85 U	33 U
E6-1	6.2 U	5.1 U	67 U	5.7 U	5.8 U	8.6 U	330 U
E6-2	0.62 U	0.51 U	6.7 U	0.57 U	0.58 U	0.86 U	33 U
E6-4	0.63 U	0.52 U	6.8 U	0.58 U	0.6 U	0.87 U	34 U
E7-1	3.1 U	2.6 U	33 U	2.8 U	2.9 U	4.3 U	170 U
E7-2	0.63 U	0.52 U	6.8 U	0.57 U	0.59 U	0.87 U	34 U
E7-3	0.62 U	0.51 U	6.7 U	0.57 U	0.58 U	0.86 U	33 U
E7-5	0.62 U	0.51 U	6.7 U	0.57 U	0.58 U	0.86 U	33 U
E8-1	0.6 U	0.5 U	6.5 U	0.55 U	0.57 U	0.83 U	32 U
E8-2	0.6 U	0.5 U	6.5 U	0.55 U	0.57 U	0.83 U	32 U
E8-3	0.61 U	0.5 U	6.6 U	0.56 U	0.58 U	0.85 U	33 U
E8-4	0.6 U	0.5 U	6.5 U	0.55 U	0.57 U	0.83 U	32 U
E8-5	0.62 U	0.51 U	6.7 U	0.57 U	0.58 U	0.86 U	33 U
ESLs Residential (µg/kg)	--	5.50E+02	4.80E+02	1.20E+02	6.20E+01	3.50E+05	5.10E+02
RSLs Residential (µg/kg)	--	5.7E+02	1.7E+03	1.3E+02	7.0E+01	3.2E+05	4.9E+02

Table 5

**Summary of Pesticide Concentrations
Former Vallco Mall**

<u>Sample ID</u> ^{[2][4][7]}	p,p'-DDD (µg/kg)	p,p'-DDE (µg/kg)	p,p'-DDT (µg/kg)	Aldrin (µg/kg)	alpha-BHC (µg/kg)
SB-001-(0.5)	5 U	20	20	5 U	5 U
SB-001-(1)	3	72	57	2 U	2 U
SB-001-(2)	1 U	4.4	1 U	1 U	1 U
SB-001-(3)	1 U	1 U	1 U	1 U	1 U
SB-002-(0.5)	2 U	2 U	2 U	2 U	2 U
SB-002-(1)	1 U	4.3	1.8	1 U	1 U
SB-002-(2)	1 U	9.1	3.1	1 U	1 U
SB-002-(3)	1 U	1 U	1 U	1 U	1 U
SB-003-(0.5)	5 U	18	14	5 U	5 U
SB-003-(1)	5 U	5 U	5 U	5 U	5 U
SB-003-(2)	2 U	2 U	2 U	2 U	2 U
SB-003-(3)	2 U	2	2.9	2 U	2 U
SB-004-(0.5)	2 U	7.5	3.2 P	2 U	2 U
SB-004-(1)	5 U	9.6	9.5	5 U	5 U
SB-004-(2)	1.3	200	85	1 U	1 U
SB-004-(3)	1 U	7.8	2.7	1 U	1 U
SB-005-(0.5)	2 U	52	23	2 U	2 U
SB-005-(1)	2.6	110	32	2 U	2 U
SB-005-(2)	1 U	1.7	1 U	1 U	1 U
SB-005-(3)	1 U	1 U	1 U	1 U	1 U
SB-006-(0.5)	1 U	1 U	1 U	1 U	1 U
SB-006-(1)	1 U	1 U	1 U	1 U	1 U
SB-006-(2)	1 U	1 U	1 U	1 U	1 U
SB-006-(3)	10 U	10 U	10 U	10 U	10 U
SB-007-(0.5)	20 U	20 U	20 U	20 U	20 U
SB-007-(1)	20 U	20 U	20 U	20 U	20 U
SB-007-(2)	1 U	1.7	1.3	1 U	1 U
SB-007-(3)	1 U	1 U	1 U	1 U	1 U
ESLs Residential (µg/kg)	2.70E+03	1.80E+03	1.90E+03	3.50E+01	--
RSLs Residential (µg/kg)	1.9E+03	2.0E+03	1.9E+03	3.9E+01	8.6E+01

Table 5

**Summary of Pesticide Concentrations
Former Vallco Mall**

Sample ID ^{[2][4][7]}	alpha-Chlordane [5] (µg/kg)	beta-BHC (µg/kg)	delta-BHC (µg/kg)	Dieldrin (µg/kg)	Endosulfan I ^[6] (µg/kg)
SB-001-(0.5)	5 U	5 U	5 U	5 U	5 U
SB-001-(1)	2 U	2 U	2 U	2.9	2 U
SB-001-(2)	1 U	1 U	1 U	1 U	1 U
SB-001-(3)	1 U	1 U	1 U	1 U	1 U
SB-002-(0.5)	2 U	2 U	2 U	2 U	2 U
SB-002-(1)	1 U	1 U	1 U	1 U	1 U
SB-002-(2)	1 U	1 U	1 U	1 U	1 U
SB-002-(3)	1 U	1 U	1 U	1 U	1 U
SB-003-(0.5)	12	5 U	5 U	5.7	5 U
SB-003-(1)	5 U	5 U	5 U	5 U	5 U
SB-003-(2)	2 U	2 U	2 U	2 U	2 U
SB-003-(3)	2 U	2 U	2 U	2 U	2 U
SB-004-(0.5)	2 U	2 U	2 U	2 U	2 U
SB-004-(1)	5 U	5 U	5 U	5 U	5 U
SB-004-(2)	1.3 P	1 U	1 U	4.7	1 U
SB-004-(3)	1 U	1 U	1 U	1 U	1 U
SB-005-(0.5)	2 U	2 U	2 U	2.6	2 U
SB-005-(1)	2 U	2 U	2 U	3.5	2 U
SB-005-(2)	1 U	1 U	1 U	1 U	1 U
SB-005-(3)	1 U	1 U	1 U	1 U	1 U
SB-006-(0.5)	1 U	1 U	1 U	1 U	1 U
SB-006-(1)	1 U	1 U	1 U	1 U	1 U
SB-006-(2)	1 U	1 U	1 U	1 U	1 U
SB-006-(3)	10 U	10 U	10 U	10 U	10 U
SB-007-(0.5)	20 U	20 U	20 U	20 U	20 U
SB-007-(1)	20 U	20 U	20 U	20 U	20 U
SB-007-(2)	1 U	1 U	1 U	1 U	1 U
SB-007-(3)	1 U	1 U	1 U	1 U	1 U
ESLs Residential (µg/kg)	4.80E+02	--	--	3.70E+01	4.20E+05
RSLs Residential (µg/kg)	1.7E+03	3.0E+02	--	3.4E+01	4.7E+05

Table 5

**Summary of Pesticide Concentrations
Former Vallco Mall**

<u>Sample ID</u> ^{[2][4][7]}	Endosulfan II ^[6] (µg/kg)	Endosulfan sulfate (µg/kg)	Endrin (µg/kg)	Endrin aldehyde (µg/kg)	Endrin ketone (µg/kg)	gamma-BHC (µg/kg)	gamma-Chlordane ^[5] (µg/kg)
SB-001-(0.5)	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SB-001-(1)	2 U	2 U	2 U	2 U	2 U	2 U	2 U
SB-001-(2)	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SB-001-(3)	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SB-002-(0.5)	2 U	2 U	2 U	2 U	2 U	2 U	2 U
SB-002-(1)	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SB-002-(2)	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SB-002-(3)	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SB-003-(0.5)	5 U	5 U	5 U	5 U	5 U	5 U	11
SB-003-(1)	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SB-003-(2)	2 U	2 U	2 U	2 U	2 U	2 U	2 U
SB-003-(3)	2 U	2 U	2 U	2 U	2 U	2 U	2 U
SB-004-(0.5)	2 U	2 U	2 U	2 U	2 U	2 U	2 U
SB-004-(1)	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SB-004-(2)	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SB-004-(3)	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SB-005-(0.5)	2 U	2 U	2 U	2 U	2 U	2 U	2 U
SB-005-(1)	2 U	2 U	2 U	2 U	2 U	2 U	2.6
SB-005-(2)	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SB-005-(3)	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SB-006-(0.5)	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SB-006-(1)	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SB-006-(2)	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SB-006-(3)	10 U	10 U	10 U	10 U	10 U	10 U	10 U
SB-007-(0.5)	20 U	20 U	20 U	20 U	20 U	20 U	20 U
SB-007-(1)	20 U	20 U	20 U	20 U	20 U	20 U	20 U
SB-007-(2)	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SB-007-(3)	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ESLs Residential (µg/kg)	4.20E+05	--	2.10E+04	--	--	5.50E+02	4.80E+02
RSLs Residential (µg/kg)	470,000	--	1.9E+04	--	--	5.7E+02	1.7E+03

Table 5

**Summary of Pesticide Concentrations
Former Vallco Mall**

Sample ID ^{[2][4][7]}	Chlordane (Technical) (µg/kg)	Heptachlor (µg/kg)	Heptachlor epoxide (µg/kg)	Hexachlorobenzene (µg/kg)	Hexachlorocyclopentadiene (µg/kg)	Methoxychlor (µg/kg)	Toxaphene (µg/kg)
SB-001-(0.5)	120 U	5 U	5 U	50 U	100 U	5 U	250 U
SB-001-(1)	50 U	2 U	2 U	20 U	40 U	2 U	100 U
SB-001-(2)	25 U	1 U	1 U	10 U	20 U	1 U	50 U
SB-001-(3)	25 U	1 U	1 U	10 U	20 U	1 U	50 U
SB-002-(0.5)	50 U	2 U	2 U	20 U	40 U	2 U	100 U
SB-002-(1)	25 U	1 U	1 U	10 U	20 U	1 U	50 U
SB-002-(2)	25 U	1 U	1 U	10 U	20 U	1 U	50 U
SB-002-(3)	25 U	1 U	1 U	10 U	20 U	1 U	50 U
SB-003-(0.5)	120 U	5 U	5 U	50 U	100 U	5 U	250 U
SB-003-(1)	120 U	5 U	5 U	50 U	100 U	5 U	250 U
SB-003-(2)	50 U	2 U	2 U	20 U	40 U	2 U	100 U
SB-003-(3)	50 U	2 U	2 U	20 U	40 U	2 U	100 U
SB-004-(0.5)	50 U	2 U	2 U	20 U	40 U	2 U	100 U
SB-004-(1)	120 U	5 U	5 U	50 U	100 U	5 U	250 U
SB-004-(2)	25 U	1 U	1 U	10 U	20 U	1 U	50 U
SB-004-(3)	25 U	1 U	1 U	10 U	20 U	1 U	50 U
SB-005-(0.5)	50 U	2 U	2 U	20 U	40 U	2 U	100 U
SB-005-(1)	50 U	2 U	2 U	20 U	40 U	2 U	100 U
SB-005-(2)	25 U	1 U	1 U	10 U	20 U	1 U	50 U
SB-005-(3)	25 U	1 U	1 U	10 U	20 U	1 U	50 U
SB-006-(0.5)	25 U	1 U	1 U	10 U	20 U	1 U	50 U
SB-006-(1)	25 U	1 U	1 U	10 U	20 U	1 U	50 U
SB-006-(2)	25 U	1 U	1 U	10 U	20 U	1 U	50 U
SB-006-(3)	250 U	10 U	10 U	100 U	200 U	10 U	500 U
SB-007-(0.5)	500 U	20 U	20 U	200 U	400 U	20 U	1000 U
SB-007-(1)	500 U	20 U	20 U	200 U	400 U	20 U	1000 U
SB-007-(2)	25 U	1 U	1 U	10 U	20 U	1 U	50 U
SB-007-(3)	25 U	1 U	1 U	10 U	20 U	1 U	50 U
ESLs Residential (µg/kg)	4.80E+02	#####	6.20E+01	1.80E+02	--	--	5.10E+02
RLS Residential (µg/kg)	1.7E+03	1.3E+02	7.0E+01	2.10E+02	1.80E+03	3.2E+05	4.9E+02

Table 5

**Summary of Pesticide Concentrations
Former Vallco Mall**

Notes:

ug/kg = milligrams per kilogram

ESLs Residential = Environmental Screening Levels (ESLs) for direct exposure to human health for residential shallow soil exposure as established by the San Francisco (SF) Water Board, revised January 2019. Screening levels listed are for either cancer risk or non-cancer hazards; if a screening level for both cancer risk and non-cancer hazards existed, the lower screening level was listed.

RSLs Residential = Regional Screening Levels (RSLs) for exposure to cancer/noncancer residential soil established by the Department of Toxic Substances Control (DTSC), revised November 2018. Concentration in µg/kg.

U = compound was not detected at a concentration greater than the method detection limit or reporting limit shown

J = compound was detected at a concentration less than the laboratory reporting limit, but greater than the method detection limit

C = Presence confirmed, but relative percent difference (RPD) between columns exceeds 40%

= Continuing calibration verification (CCV) drift outside limits; average CCV drift within limits per method requirement.

P = Agreement between quantitative confirmation results exceed method recommended limits

-- = not applicable or not available

[1] Samples collected by WSP on 10/30 & 10/31/18. Sample nomenclature is as follows: "sample location - (sample depth)". Gray gradient indicates increased depth.

[2] Bold results indicate the concentration is greater than reporting limit, results in red font indicate an exceedance of residential RSLs.

[3] Samples collected by Geosphere consultants, inc. on September 6, 2016

[4] Samples collected by WSP on 1/10/19. Sample nomenclature is as follows: "sample type - sample location - (depth)". Gray gradient indicates increased depth.

[5] Screening level listed is for chlordane. Chlordane is a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components of which alpha-chlordane and gamma-chlordane are included

[6] Screening level listed is for Endosulfan. Endosulfan is a mix of Endosulfan I and Endosulfan II.

[7] The reporting limit is listed for non-detect compounds, indicated by a 'U' qualifier.

[8] The method detection limit is listed for non-detect compounds, indicated by a 'U' qualifier.

[9] The concentration listed is for Chlordane.

Table 6

**Summary of Herbicide Concentrations
Former Vallco Mall**

<u>Sample ID</u> ^{[1][2]}	2,4,5-T (µg/kg)	2,4,5-TP (Silvex) (µg/kg)	2,4-D (µg/kg)	2,4-DB (µg/kg)	Dalapon (µg/kg)	Dicamba (µg/kg)	Dichlorprop (µg/kg)	Dinoseb (µg/kg)	MCPA (µg/kg)	MCPP (µg/kg)
S-1-(1)	1.1 U	2.3 U	14 U	16 U	73 U	1.2 U	17 U	5.1 U	2100 U	3200 U
S-1-(5)	1.1 U	2.3 U	14 U	16 U	72 U	1.2 U	17 U	5.1 U	2000 U	3100 U
S-2-(1)	1.1 U	2.3 U	14 U	16 U	72 U	1.2 U	17 U	5.1 U	2000 U	3100 U
S-2-(5)	1.1 U	2.3 U	14 U	16 U	73 U	1.2 U	17 U	5.1 U	2000 U	3100 U
S-3-(1)	1.1 U	2.3 U	14 U	16 U	72 U	1.2 U	17 U	5 U	2000 U	3100 U
S-3-(5)	1.1 U	2.3 U	14 U	16 U	72 U	1.2 U	17 U	5.1 U	2000 U	3100 U
S-4-(1)	1.1 U	2.3 U	14 U	16 U	73 U	1.2 U	17 U	5.1 U	2100 U	3200 U
S-4-(5)	1.1 U	2.3 U	14 U	16 U	72 U	1.2 U	17 U	5 U	2000 U	3100 U
S-5-(1)	1.1 U	2.3 U	14 U	16 U	72 U	1.2 U	17 U	5 U	2000 U	3100 U
S-5-(5)	1.1 U	2.3 U	14 U	16 U	72 U	1.2 U	17 U	5.1 U	2000 U	3100 U
S-6-(1)	1.1 U	2.3 U	14 U	16 U	72 U	1.2 U	17 U	5.1 U	2000 U	3100 U
S-6-(5)	1.1 U	2.3 U	14 U	16 U	72 U	1.2 U	17 U	5.1 U	2000 U	3100 U
S-7-(2)	1.1 U	2.3 U	14 U	16 U	72 U	1.2 U	17 U	5.1 U	2000 U	3100 U
S-7-(5)	1.1 U	2.3 U	14 U	16 U	72 U	1.2 U	17 U	5 U	2000 U	3100 U
S-8-(1)	1.1 U	2.3 U	14 U	16 U	73 U	1.2 U	17 U	5.1 U	2000 U	3100 U
S-8-(5)	1.1 U	2.3 U	14 U	16 U	73 U	1.2 U	17 U	5.1 U	2000 U	3100 U
ESLs Residential (µg/kg)	7.80E+06	--	--	--	--	--	--	--	--	--
RSLs Residential (µg/kg)	6.3E+05	5.1E+05	7.0E+05	1.9E+06	1.9E+06	1.9E+06	--	6.3E+04	3.2E+04	6.3E+04

Table 6

**Summary of Herbicide Concentrations
Former Vallco Mall**

<u>Sample ID</u> ^{[1][2]}	2,4,5-T (µg/kg)	2,4,5-TP (Silvex) (µg/kg)	2,4-D (µg/kg)	2,4-DB (µg/kg)	Dalapon (µg/kg)	Dicamba (µg/kg)	Dichloroprop (µg/kg)	Dinoseb (µg/kg)	MCPA (µg/kg)	MCPP (µg/kg)
W-1-(1)	1.1 U	2.3 U	14 U	16 U	72 U	1.2 U	17 U	5.1 U	2000 U	3100 U
W-1-(5)	1.1 U	2.3 U	14 U	16 U	72 U	1.2 U	17 U	5.1 U	2000 U	3100 U
W-2-(2)	1.1 U	2.3 U	14 U	16 U	72 U	1.2 U	17 U	5 U	2000 U	3100 U
W-2-(5)	1.1 U	2.3 U	14 U	16 U	72 U	1.2 U	17 U	5.1 U	2000 U	3100 U
W-3-(1)	1.1 U	2.3 U	14 U	16 U	73 U	1.2 U	17 U	5.1 U	2100 U	3200 U
W-3-(5)	1.1 U	2.3 U	14 U	16 U	73 U	1.2 U	17 U	5.1 U	2000 U	3100 U
W-4-(1)	1.1 U	2.3 U	14 U	16 U	73 U	1.2 U	17 U	5.1 U	2100 U	3200 U
W-4-(5)	1.1 U	2.3 U	14 U	16 U	73 U	1.2 U	17 U	5.1 U	2100 U	3200 U
W-5-(1)	1.1 U	2.3 U	14 U	16 U	73 U	1.2 U	17 U	5.1 U	2100 U	3200 U
W-5-(5)	1.1 U	2.3 U	14 U	16 U	73 U	1.2 U	17 U	5.1 U	2000 U	3100 U
E-2-(1)	1.1 U	2.3 U	14 U	16 U	72 U	1.2 U	17 U	5.1 U	2000 U	3100 U
E-2-(5)	1.1 U	2.3 U	14 U	16 U	73 U	1.2 U	17 U	5.1 U	2100 U	3200 U
ESLs Residential (µg/kg)	7.80E+06	--	--	--	--	--	--	--	--	--
RSLs Residential (µg/kg)	6.3E+05	5.1E+05	7.0E+05	1.9E+06	1.9E+06	1.9E+06	--	6.3E+04	3.2E+04	6.3E+04

Notes:

µg/kg = milligrams per kilogram

ESLs Residential = Environmental Screening Levels (ESLs) for direct exposure to human health for residential shallow soil exposure as established by the San Francisco (SF) Water Board, revised January 2019. Screening levels listed are for either cancer risk or non-cancer hazards; if a screening level for both cancer risk and non-cancer hazards existed, the lower screening level was listed.

RSLs Residential = Regional Screening Levels (RSLs) for exposure to cancer/noncancer residential soil established by the Department of Toxic Substances Control (DTSC), revised November 2018.

U = compound was not detected at a concentration greater than the method detection limit shown

-- = not applicable or not available

[1] Sample nomenclature is as follows: "sample location - (sample depth)". Gray gradient indicates increased depth.

[2] Bold results indicate the concentration is greater than the method detection limit,

APPENDIX

A

SEARS CLOSURE REPORT

December 6, 1999

Mr. Scott DeMuth
Department 824C
Sears Roebuck & Company
3333 Beverley Road
Hoffman Estates, IL 60179

Dear Mr. DeMuth:

Subject: Fuel Leak Site Case Closure—Sears Automotive Center, 10101 North Wolfe Road, Cupertino, CA 95014; Case No. 14-486

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Santa Clara Valley Water District is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- Residual contamination exists at the site; however, concentration levels are below regulatory concern.

If you have any questions, please call Ms. Rita Chan at (408) 265-2607, extension 2643. Thank you.

Sincerely,

ORIGINAL SIGNED BY

James S. Crowley, P.E.
Engineering Unit Manager
Leaking Underground Storage Tank Oversight Program

Enclosures:

1. Case Closure Letter
2. Case Closure Summary

cc: Mr. Chuck Headlee (w/enc)
Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

Mr. Steve Gubber
Santa Clara County Fire Department
14700 Winchester Boulevard
Los Gatos, CA 95030-1818

Ms. Nancy Commoncho
Division of Clean Water Programs
Underground Storage Tank Cleanup Fund
State Water Resources Control Board
P.O. Box 944212
Sacramento, CA 94244-2120

R. Chan (w/orig enc), Database (w/enc) 

RC:fd:FL9482ccl

December 6, 1999

Mr. Scott DeMuth
Department 824C
Sears Roebuck & Company
3333 Beverley Road
Hoffman Estates, IL 60179

Dear Mr. DeMuth:

Subject: Fuel Leak Site Case Closure—Sears Automotive Center, 10101 North Wolfe Road,
Cupertino, CA 95014; Case No. 14-486

This letter confirms the completion of a site investigation and remedial action for the underground storage tank(s) formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

ORIGINAL SIGNED BY

James S. Crowley, P.E.
Engineering Unit Manager
Leaking Underground Storage Tank Oversight Program

CASE CLOSURE SUMMARY LEAKING UNDERGROUND FUEL STORAGE TANK PROGRAM

I. AGENCY INFORMATION

Date: November 29, 1999

Agency Name: Santa Clara Valley Water District	Address: 5750 Almaden Expressway
City/State/Zip: San Jose, CA 95118	Phone: (408) 265-2600
Responsible Staff Person: Rita S. Chan, P.E.	Title: Assistant Civil Engineer

II. CASE INFORMATION

Site Facility Name: Sears Automotive Center		
Site Facility Address: 10101 North Wolfe Road, Cupertino, CA 95014		
RB LUSTIS Case No.: —	Local Case No.: 07S1W18G01f	LOP Case No.: 14-486
URF Filing Date: 11/02/94	SWEEPS No.: —	APN: 316-20-080
Responsible Parties	Addresses	Phone Number
Mr. Scott DeMuth Sears Roebuck & Company	Department 824C 3333 Beverley Road Hoffman Estates, IL 60179	(847) 286-5530

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
—	12,000	Gasoline	Removed	03/85
—	12,000	Gasoline	Removed	03/85
—	5,000	Gasoline	Removed	03/85
—	5,000	Gasoline	Removed	03/85
—	550	Oil	Removed	03/85
—	550	Oil	Removed	03/85
Piping			Removed	Between 10/17/94 and 10/20/94

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown		
Site characterization complete? Yes	Date Approved By Oversight Agency: —	
Monitoring wells installed? No	Number: —	Proper screened interval? —
Highest GW Depth Below Ground Surface: *	Lowest Depth: *	Flow Direction: —
Most Sensitive Current Use: Potential drinking water		

*Groundwater was not encountered during any of the investigations performed at the site.

Summary of Production Wells in Vicinity: Two production wells are found within ¼ mile of this site. Both wells are reported to be abandoned. Based upon the level of residual contamination at the site and the proximity of these wells to the subject site, the wells identified as part of this survey are not likely to be affected by the reported release.

Are drinking water wells affected? No

Aquifer Name: Santa Clara Valley Groundwater Basin

Is surface water affected? No

Nearest SW Name: Calabazas Creek (~970 feet east-southeast of site)

Off-Site Beneficial Use Impacts (Addresses/Locations): None known

Reports on file? Yes

Where are reports filed? Santa Clara Valley Water District

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	Two at 12,000 gallons Two at 5,000 gallons Two at 550 gallons	None reported	03/85
Piping	Unknown	None reported	10/94
Free Product	—	—	—
Soil	10 cubic yards	Transported by Southwest Soil Remediation, Inc.	05/31/95
Groundwater	—	—	—
Barrels	—	—	—

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS

Contaminant	Soil (ppm)		Water (ppb)		Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After ¹		Before	After	Before	After ¹
TPH (Gas)	3,000	ND	—	—	Xylene	150	0.55	—	—
TPH (Diesel)	ND	—	—	—	Ethylbenzene	23	0.0061	—	—
Benzene	2.4	ND	—	—	Oil & Grease	—	—	—	—
Toluene	16	ND	—	—	Lead	11	20	—	—
Other (8240/8270)	—	—	—	—	MTBE	—	ND ²	—	—

Description of Interim Remediation Activities:

March 1985—Four underground storage tanks (UST) containing gasoline (two at 12,000 gallons and two at 5,000 gallons), two 550-gallon USTs containing oil, and product dispensers were removed.

October 1994—The dispenser islands and product lines were removed.

November 1994—Additional soil was excavated. Soil sampling was performed at the east end of the product-line trench south of Dispenser Island A and at the former oil UST product lines.

July 1999—A verification assessment was conducted to verify the hydrocarbon concentrations in soil and groundwater. Soil samples were collected from seven boring locations (GP-1 through GP-7) using direct-push technology. GP-1 was advanced to a depth of 44 feet below ground surface (bgs), while GP-2 through GP-7 were drilled to a depth of 24 feet bgs. Soil samples were collected at 4-foot intervals. Volatile organic compounds were monitored in the field using a photoionization detector. The bottom samples from each boring were analyzed. Groundwater was not encountered in any of the borings; therefore, no water samples were collected or analyzed.

ND = Not detected

¹Groundwater was not encountered in any of the seven borings. GP-2 through GP-7 were advanced to a depth of 24 feet bgs; GP-1 was advanced to a depth of 44 feet bgs.

²Detection limit of 0.05 parts per million (ppm).

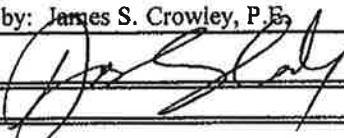
IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Santa Clara Valley Water District staff does not make specific determinations concerning public health risk. However, it does not appear that the release would present a risk to human health.		
Site Management Requirements: None		
Should corrective action be reviewed if land use changes? No		
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 0
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:
- The disposal destinations of the removed USTs and piping were not reported. - The majority of pollution associated with the UST release was overexcavated. - Analytical results for verification soil samples did not indicate the presence of petroleum compounds with the exception of Ethylbenzene (0.0061 ppm) and Xylenes (0.55 ppm). - No fuel oxygenates including Methyl tert-Butyl Ether, Di-Isopropyl Ether, Ethyl tert-Butyl Ether, tert-Butyl Alcohol, and tert-Amyl Methyl Ether were detected in the verification soil samples. In addition, analytical results did not indicate the detection of ethanol, 1,2-dibromoethane, and 1,2 dichloroethane.
Conclusion: Based on soil sampling results obtained from the verification assessment at the site, residual contamination in the subsurface from the former USTs are minimal. In addition, due to the location of deep groundwater, Santa Clara Valley Water District staff does not believe that the residual contamination at the site would pose a significant risk to the groundwater beneath the site. Therefore, no further corrective action is required at this time.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Rita S. Chan, P.E.	Title: Assistant Civil Engineer
Signature: 	Date: 12/2/99
Approved by: James S. Crowley, P.E.	Title: Engineering Unit Manager
Signature: 	Date: 12/2/99

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Chuck Headlee	Title: Engineering Geologist
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB:
Signature: <i>See attached sheet for signature</i>	Date: <i>12/6/99</i>

Attachments:

1. Site Vicinity Map
2. Site Plan
3. Analytical results for soil samples collected in October and November 1994 and sample locations
4. Analytical results for soil samples collected in July 1999 and sample locations.

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file

Dec-02-99 01:50P

P.06

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Chuck Headlee	Title: Engineering Geologist
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB: 12/2/99
Signature: <i>Chuck Headlee</i>	Date: 12/3/99

Attachments:

1. Site Vicinity Map
2. Site Plan
3. Analytical results for soil samples collected in October and November 1994 and sample locations
4. Analytical results for soil samples collected in July 1990 and sample locations.

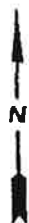
This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

Post-it* Fax Note	7671	Date	# of pages 1
To <i>Rita Chan</i>	From <i>Chuck Headlee</i>	Co.	
Co/Dept.	Phone #	Phone #	
Phone #	Fax #	Fax #	
Fax <i>(408) 267-5057</i>			



IT CORPORATION

SOURCE: U.S.G.S. 7.5' QUAD SHEET
CUPERTINO, CALIFORNIA
PHOTOREVISED 1991



SCALE:

0 FEET 2000

SITE LOCATION MAP

CLIENT:

SEARS ROEBUCK, & COMPANY
STORE NO. 1468

DATE:

11/20/98

LOCATION:

10101 WOLFE ROAD
CUPERTINO, CALIFORNIA

FIGURE:

1

N

FORMER
USED OIL
TANK

FORMER
MOTOR OIL
TANK

SEARS AUTO
CENTER

FORMER
UNDERGROUND
STORAGE TANKS

FORMER
DISPENSER
ISLANDS

STEVENS CREEK BOULEVARD

NOTES:

1. MAP ADAPTED FROM SITE UTILITY PLAN, CHARLES
LUCKMAN ASSOCIATES, 04/30/69.



FLUOR DANIEL GTI

0 FEET 50
SCALE

SITE PLAN

CLIENT:

SEARS MERCHANDISE GROUP
STORE No. 1468

FILE:

0023SM (1:600)

PROJECT NO.:

02020023

PM

PE/RG

REV.

LOCATION:

10101 WOLFE ROAD
CUPERTINO, CA

DES.

PM

DET.

PJWH

DATE:

12/16/94

FIGURE:

2

Attachment 2

TABLE 1
Former Dispenser Island Soil Sample Analytical Results

Sears Store 1468, Cupertino, California
Sampled October 19, 20, and November 3, 1994

Sample ID	Depth Feet	Date	TPH-g	B	T	E	X	Total Lead
Island A Soil Samples								
ISL A-1	2	10/20/94	<1.0	<0.005	<0.005	<0.005	<0.015	<5
ISL A-2	3	10/20/94	<1.0	<0.005	<0.005	<0.005	<0.015	<5
ISL A-3	2	10/20/94	<1.0	<0.005	<0.005	<0.005	<0.015	<5
Island A, North Trench, Soil Samples								
1ANT/3	3	10/19/94	<1.0	<0.005	<0.005	<0.005	<0.015	6
AST 3/3	3	10/20/94	<1.0	0.009	<0.005	<0.005	<0.015	<5
2ANT/3	3	10/19/94	48	0.08	1.1	0.71	5.0	6
Island A, South Trench, Soil Samples								
1AST/5	5	10/19/94	<1.0	<0.005	<0.005	<0.005	<0.015	6
2AST/6	6	10/19/94	3,000	2.4	16	23	150	11
ASTP-5.5	5.5	11/03/94	<1.0	<0.005	<0.005	<0.005	<0.015	6
Island B Soil Samples								
ISL B-1	2	10/20/94	<1.0	<0.005	<0.005	<0.005	<0.015	<5
ISL B-2	2	10/20/94	<1.0	<0.005	<0.005	<0.005	<0.015	<5
ISL B-3	3	10/20/94	<1.0	<0.005	<0.005	<0.005	<0.015	<5
Island B, North Trench, Soil Samples								
1BNT/6	6	10/19/94	25	0.06	1.2	0.54	3.8	<5
2BNT/2	2	10/19/94	<1.0	<0.005	<0.005	<0.005	<0.015	5
Island B, South Trench, Soil Samples								
1BST/6.5	6.5	10/19/94	<1.0	<0.005	<0.005	<0.005	<0.015	6
2BST/2	2	10/19/94	<1.0	<0.005	<0.005	<0.005	<0.015	<5
BST 3-3	3	10/20/94	<1.0	<0.005	<0.005	<0.005	<0.015	<5
West Trench Soil Samples								
1WT/6	6	10/19/94	<1.0	<0.005	<0.005	<0.005	<0.015	<5
2WT/3	3	10/19/94	<1.0	<0.005	<0.005	<0.005	<0.015	6
3WT/6	6	10/19/94	<1.0	0.006	0.02	<0.005	<0.015	7

Notes:

- 1) All results expressed in milligrams per kilogram
- 2) Total lead analyzed using EPA Method 6010

TPH-g = total petroleum hydrocarbons as gasoline, B = benzene, T = toluene, E = ethylbenzene, X = total xylenes; analyzed using EPA Method 8020
 < Number = below reported detection limits



TABLE 2
Former New and Used Oil Product Line Soil Sample Analytical Results

Sears Store 1468, Cupertino, California
Sampled October 20 and November 3, 1994

Sample ID	Date	TPH-g	B	T	E	X	TRPH	TPH-d
VO1	10/20/94	<1.0	<0.005	<0.005	<0.005	<0.015	7	<10
VO2	10/20/94	<1.0	<0.005	<0.005	<0.005	<0.015	1,300	<10
WO1	10/20/94	<1.0	<0.005	<0.005	<0.005	<0.015	80	<10
VO1-6.5	11/03/94	<1.0	<0.005	<0.005	<0.005	<0.015	<5	<10
WO1-6.0	11/03/94	<1.0	<0.005	<0.005	<0.005	<0.015	600	<10

Notes:

1) All results expressed in milligrams per kilogram

TPH-g = total petroleum hydrocarbons as gasoline, B = benzene, T = toluene, E = ethylbenzene, X = total xylenes; analyzed using EPA Method 8020
 TRPH = total recoverable petroleum hydrocarbons; analyzed using EPA Method 3550 (Modified)/EPA 418.1
 TPH-d = total petroleum hydrocarbons as diesel; analyzed using EPA Method Modified 8015
 < Number = below reported detection limits



FORMER DISPENSER ISLAND "B"

FORMER DISPENSER ISLAND "A"

FORMER UNDERGROUND STORAGE TANKS

APPROXIMATE LIMITS OF EXCAVATION

EXPLANATION

- ⊗ SOIL SAMPLE LOCATION
- 2' $\frac{0.08}{48}$ BENZENE (mg/kg)
- 8' $\frac{1.0}{8}$ TPH AS GASOLINE (mg/kg)
- 3' $\frac{0.005}{1.0}$ TOTAL LEAD (mg/kg)
- 3' $\frac{0.005}{1.0}$ BENZENE DETECTION LIMIT (mg/kg)
- 3' $\frac{1.0}{1.0}$ TPH AS GASOLINE DETECTION LIMIT (mg/kg)
- 3' $\frac{5.0}{5.0}$ TOTAL LEAD DETECTION LIMIT (mg/kg)

SAMPLED ON: 10/19/94, 10/20/94, AND 11/03/94

NOTES:

- 1. EXCAVATION AND SAMPLE LOCATIONS PER FIELD MEASUREMENTS. CFI, 10/94.

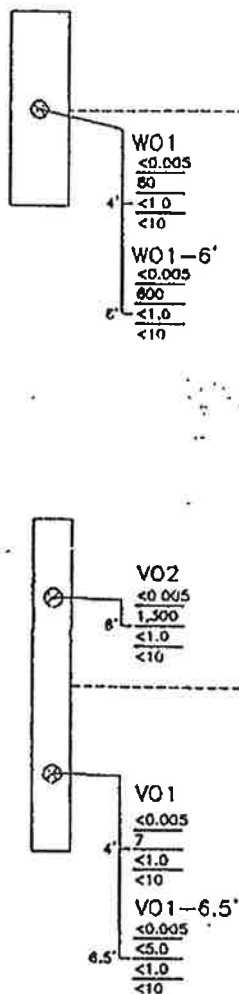


FLUOR DANIEL GTI



SOIL ANALYTICAL RESULTS AT FORMER DISPENSER ISLANDS

CLIENT: SEARS MERCHANDISE GROUP STORE No. 1468		FILE: 0023SRDI (1:120)	PROJECT NO.: 02020147	PM	PE/RC
LOCATION: 10101 WOLFE ROAD CUPERTINO, CA		REV.	FIGURE: 3		
DES. JM	DET. CCG	DATE: 06/04/96			



SEARS AUTO
CENTER

EXPLANATION

⊗	SOIL SAMPLE LOCATION
4'	<0.005 BENZENE (mg/kg)
4'	<5.0 TRPH (mg/kg)
4'	<1.0 TPH AS GASOLINE (mg/kg)
4'	<10 TPH AS DIESEL (mg/kg)
6'	<0.005 BENZENE DETECTION LIMIT (mg/kg)
6'	<5.0 TRPH DETECTION LIMIT (mg/kg)
6'	<1.0 TPH AS GASOLINE DETECTION LIMIT (mg/kg)
6'	<10 TPH AS DIESEL DETECTION LIMIT (mg/kg)

NOTES:

1. EXCAVATION AND SAMPLE LOCATIONS PER FIELD MEASUREMENTS, GTI, 10/94.

SAMPLED ON: 10/19/94, 10/20/94, AND 11/03/94



FLUOR DANIEL GTI

0 FEET 10
SCALE

SOIL ANALYTICAL RESULTS AT FORMER NEW & USED OIL USTs

CLIENT: SEARS MERCHANDISE GROUP STORE No. 1468	FILE. 0023SRWO (1:120)	PROJECT NO.: 02020147	PM	PE/RG
	REV.			
LOCATION: 10101 WOLFE ROAD CUPERTINO, CA	DES. JM	DET. CCG	FIGURE 4	
	DATE: 06/04/96			

TABLE 1
Laboratory Results for Soil (mg/kg)

Sears Auto Center 1468/6951
Cupertino, California

Sample ID	Date	Depth (ft)	Benzene	Toluene	Ethylbenzene (8020)	Xylenes	TPH-g (8015M)	MTBE/ Oxygenates	Lead 6010
GP-1, S11	07/12/99	44	<0.005	<0.005	<0.005	<0.005	<1	<0.05/ND	—
GP-2, S6	07/12/99	22	<0.005	<0.005	<0.005	<0.005	<1	<0.05/ND	—
GP-3, S6	07/12/99	22	<0.005	<0.005	<0.005	<0.005	<1	<0.05/ND	—
GP-4, S6	07/12/99	22	<0.005	<0.005	<0.005	<0.005	<1	<0.05/ND	—
GP-5, S7	07/12/99	22	<0.005	<0.005	0.0061	0.55	<1	<0.05/ND	20
GP-6, S7	07/12/99	22	<0.005	<0.005	<0.005	<0.005	<1	<0.05/ND	—
GP-7, S8	07/12/99	22	<0.005	<0.005	<0.005	<0.005	<1	<0.05/ND	—

Note: Boring GP-1 was advanced to 44 feet below grade to determine if groundwater would be encountered.

Groundwater was not encountered; therefore, the deepest sample from each boring was submitted for analysis.

MTBE was analyzed by both EPA methods 8020 and 8260; oxygenates include MTBE, DIPE, ETBE, TAME, 1,2-DBA,

1,2-DCA (all detection limits = 0.10 mg/kg), ethanol (detection limit = 25 mg/kg) and t-butanol (detection limit = 5 mg/kg).

Lead was analyzed for the sample with the highest hydrocarbon concentrations.

ND = below detection limits

SEARS RETAIL
STORE



GP-2 S6(22')

B	ND
T	ND
E	ND
X	ND
TPHg	ND
MTBE	ND

GP-2
FORMER
USED OIL
TANK

GP-3
FORMER
MOTOR OIL
TANK

GP-1 S11(44')

B	ND
T	ND
E	ND
X	ND
TPHg	ND
MTBE	ND

SEARS AUTO
CENTER

GP-5 S6(22')

B	ND
T	ND
E	0.0061
X	0.55
TPHg	ND
MTBE	ND
LEAD	20

FORMER
UNDERGROUND
STORAGE TANKS

GP-4 S6(22')

B	ND
T	ND
E	ND
X	ND
TPHg	ND
MTBE	ND

FORMER
DISPENSER
ISLANDS

GP-3 S6(22')

B	ND
T	ND
E	ND
X	ND
TPHg	ND
MTBE	ND

GP-7 S8(22')

B	ND
T	ND
E	ND
X	ND
TPHg	ND
MTBE	ND

GP-6 S7(22')

B	ND
T	ND
E	ND
X	ND
TPHg	ND
MTBE	ND

LEGEND

B BENZENE
T TOLUENE
E ETHYLBENZENE
X XYLENES
TPHg TOTAL PETROLEUM HYDROCARBONS IN GASOLINE
MTBE METHYL TERTIARY BUTYL ETHER

ND BELOW DETECTION LIMITS

NOTES:

DETECTIONS LIMITS FOR BTEX = 0.005 mg/ly;
TPHg=1.0 mg/ly; LEAD = 1.0 mg/ly; MTBE =
0.05 mg/ly.

◆ BORING LOCATION

STEVENS CREEK BOULEVARD



IT CORPORATION

0 FEET 70
SCALE

**HYDROCARBON CONCENTRATIONS
IN SOIL
(JULY 12, 1999)**

CLIENT: SEARS
STORE NO. 1468

FILE: HCS-799

PROJECT NO:
781469

PM *MB* RG/PE *EW*

LOCATION: 10101 WOLFE ROAD
CUPERTINO, CALIFORNIA

REV: X

DES: MG

DET: TRS

DATE: 8/11/99

FIGURE:

3

APPENDIX

B

J.C. PENNEY

CLOSURE REPORT

September 1, 1994

Mr. Bob Arneson
J.C.Penney
6131 Orangethorpe Avenue
Buena Park, CA 90620

Dear Mr. Arneson:

Subject: Underground Storage Tank (UST) Case Closure—J.C.Penney Store No. 47, 10150 North Wolfe Road, Cupertino, CA; Case No. 27H

This letter confirms the completion of site investigation and remedial action for the underground storage tanks formerly located at the above-described location.

Based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721 (e).

The information in our files indicate that there are four groundwater monitoring wells at the site. A copy of the Santa Clara Valley Water District Ordinance No. 90-1, regulating the classification, construction, and destruction of wells and deep excavations in Santa Clara County, is enclosed. This ordinance explains that well owners are responsible for the maintenance and destruction of their wells. This ordinance requires that wells installed for the purpose of investigation and remediation of the underground tank release be properly destroyed when they are no longer used.

Please contact Ms. Belinda Allen at the Camden Office, (408) 927-0710, extension 2644, if you have any questions in this matter.

Sincerely,

ORIGINAL SIGNED BY

David J. Chesterman
Principal Engineer
Groundwater Quality Branch

Enclosure(s)

cc: (w/enc—if LOP case)
Ms. Lola Barba-Arroyo
State Water Resources Control Board
Division of Clean Water Programs
P.O. Box 944212
Sacramento, CA 94244-2120

Mr. John West
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

Mr. David Ghilarducci
Central Fire Protection District
14700 Winchester Boulevard
Los Gatos, CA 95030-1818

D. Chesterman, B. Allen, T. Hemmeter (w/enc), C. Tulloch (w/original enc), Database (w/enc),
Read

CT:cdh:FL9482ad

CASE CLOSURE SUMMARY LEAKING UNDERGROUND FUEL STORAGE TANK PROGRAM

I. AGENCY INFORMATION

Date: January 19, 1994

Agency Name: Santa Clara Valley Water District	Address: 5750 Almaden Expressway
City/State/Zip: San Jose, CA 95118	Phone: (408) 265-2600
Responsible Staff Person: Christine A. Tulloch	Title: Water Quality Specialist

II. CASE INFORMATION

Site Facility Name: J.C. Penney Store No. 427				
Site Facility Address: 10150 North Wolfe Road, Cupertino, CA 95014				
RB LUSTIS Case No.:		Local Case No.: 0751W18B01f		LOP Case No.: 27H
URF Filing Date:		SWEEPS No.:		
Responsible Parties		Addresses		Phone Numbers
J.C. Penney		6131 Orangethorpe Avenue Buena Vista, CA 90620		(714) 523-6853

Tank No.	Size in Gallons	Contents	Closed In—Place/Removed?	Date
2	350	Diesel	Removed	11/15/89
1	350	Waste oil	Removed	11/15/89
1	750 sump	Waste oil/water	Closed In-Place	01/21/94

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Holes were observed in the diesel tanks.		
Site characterization complete? Yes		Date Approved By Oversight Agency: 12/16/92
Monitoring wells installed? Yes		Number: 4 Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 122		Lowest Depth: 137 Flow Direction: West
Most Sensitive Current Use: Potential drinking water		
Are drinking water wells affected? None reported		Aquifer Name: Santa Clara Valley Groundwater Basin
Is surface water affected? No		Nearest/Affected SW Name: Calabazas Creek
Off-Site Beneficial Use Impacts (Addresses/Locations): None reported.		
Report(s) on file? Yes		Where is report(s) filed? Santa Clara Valley Water District

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	2 - 350 gallons 1 - 500 gallons	Transported offsite by H&H Shipping Service	11/15/89
Piping	Not reported.	Not reported.	Not reported.
Free Product	None	NA	NA
Soil	303 tons	Disposal at Chemical Waste Management	Not reported.
Groundwater	200 gallons	Petroleum Recycling Corp.	12/17/93
Barrels	None	NA	NA

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS—BEFORE AND AFTER CLEANUP									
Contaminant	Soil (ppm)		Water (ppb)		Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After		Before	After	Before	After
TPH (Gas)	4	4	ND	ND	Xylene	0.75	ND	ND	ND
TPH (Diesel)	6,600	14	1,700	ND	Ethylbenzene	ND	ND	0.0038	ND
Benzene	ND	ND	0.0039	ND	Oil & Grease	1,400	3,800	ND	ND
Toluene	0.12	0.12	ND	ND	Heavy Metals	87.6(Ni)	87.6(Ni)	3.6 ³ 0.73 ⁴	NA
Chlorinated Hydrocarbons	ND	ND	0.5 ¹ 1.6 ²	ND	Other	NA	NA	NA	NA

¹ Bromodichloromethane

² Chlorform

³ Chromium

⁴ Lead

Comments (Depth of Remediation, etc.): Overexcavation of contaminated soil at the diesel tank was performed to 12 feet and soil at the waste oil tank was excavated to 14 feet. Remediation of groundwater was not performed. "After" concentrations represent verification monitoring results.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan?	Yes
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan?	Yes
Does corrective action protect public health for current land use?	Yes
Site Management Requirements:	None
Should corrective action be reviewed if land use changes?	No
Monitoring Wells Decommissioned:	No
Number Decommissioned:	-0-
Number Retained:	4
List Enforcement Actions Taken:	None
List Enforcement Actions Rescinded:	None

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: David J. Chesterman	Title: Principal Engineer
Signature: <i>[Signature]</i>	Date: 8/2/94

VI. REGIONAL BOARD NOTIFICATION

Date Submitted to RB: August 17, 1994	RB Response: CONCUR -	<i>BASED SOLELY ON INFORMATION PROVIDED IN THIS SUMMARY & THE ATTACHED RECOMMENDATION MEMORANDUM.</i>
Regional Board Staff Name: JOHN R. WEST <i>[Signature]</i>	Title: E.S. II	

VII. ADDITIONAL COMMENTS, DATA, ETC.

See attached closure recommendation for additional data and discussions.

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

APPENDIX

C GEOSPHERE REPORT



October 25, 2016

Mr. Nandy Kumar
Sand Hill Property Company
2282 Sand Hill Road, Suite 241
Menlo Park, California 94025

Subject: Analytical Soil Sampling and Testing Study
The Hills at Vallco
Wolfe Road and Stevens Creek Boulevard
Cupertino, California 94025
Geosphere Project No. 91-03790-B

Dear Mr. Kumar:

As authorized, **Geosphere Consultants, Inc.** (Geosphere) has performed a Limited Analytical Soil Sampling and Testing Study for the proposed construction located at the subject site in Cupertino, California.

PURPOSE AND SCOPE

The purpose of this study was to provide a preliminary screening of potential chemicals of concern at the site. It is our understanding that the subject project will generate over 1.3 million yards of excess soil, and that this soil is planned to be imported to Treasure Island. The scope of work for this study is a screening tool for preliminary assessment of the site and has been prepared in accordance with our proposal dated August 5, 2016.

We were provided with a technical memorandum prepared by Terraphase dated June 3, 2016, and titled *Treasure Island Soil Import Criteria* prior to the start of our investigation. This memorandum details the criteria for chemicals of concern for imported soils at Treasure Island. We relied on this report to develop a testing program that would comply with the Treasure Island soil import criteria.

We were not provided with a Phase 1 Environmental Site Assessment of the site. However, we reviewed the State of California Geo-Tracker Website database for known environmental sites of concern. Based on a review of this database we understand that two Leaking Underground Storage Tank (LUST) sites are located within the project property; a former Sears and Roebuck Auto Center is located in the southwest corner of the site, and a JC Penny related LUST is located at the existing parking garage at the southwest corner of Vallco Parkway and Wolfe Road.

The scope of this study included the review of pertinent published and unpublished documents related to the site, drilling eight borings using direct push samplers, laboratory testing of discrete soil samples, engineering analysis

of the accumulated data, and preparation of this report. The conclusions and recommendations presented in this report are based on the data acquired and analyzed during this study, and on prudent engineering judgment and experience.

SITE AND PROJECT DESCRIPTION

We understand that *The Hills at Vallco* will be a multi-structured mixed-use commercial and residential development with an entertainment district and recreational facilities throughout.

The site is currently occupied by the Vallco Shopping Center and associated parking and site development over a 50-acre site, as shown in *Figure 1 – Site Vicinity Map* and *Figure 2- Environmental Boring Plan*. The site is bounded by Highway 280 to the north and Stevens Creek Boulevard to the south, with residential developments to the west and commercial developments to the east. Wolfe Road runs north-south through the site. The existing structures include commercial shopping structures, a theater, restaurants, and both on-grade and multi-storied parking structures. The new project will include approximately eight million square feet of mixed use development, including one and two-story below grade parking levels with 16 separate mid-rise buildings above, of varying height. The project includes a 30-acre green roof over all of the buildings and also at links between the green roof structure and structures below.

FIELD EXPLORATION

Test Borings

A limited subsurface field exploration program was undertaken on September 6, 2016 to collect various discrete soil samples at the field site. A total of eight borings were drilled using a mobile direct push Geoprobe DT-22 as shown on Figure 2. Boring E-1 went to a maximum depth of 50 feet, E-2 to a depth of 45 feet, E-3 to a depth of 35 feet, and E-4 through E-8 to a depth of 20 feet. The soil was continuously sampled in five foot intervals, with discrete samples being collected at depths of 1', 5', 10', 15', 20', 30', 40', and 50', where applicable. Following the completion of drilling, the boreholes were backfilled using grout and excess auger cuttings.

The location and depths of the borings for the field exploration plan were chosen to cover the extent of the project, with the deeper borings correlating to areas where the proposed excavation will be deeper. Additional borings were placed adjacent to identified LUST sites where possible. A total of 48 samples were taken across all borings, and 32 of these were sent to the lab for testing.

A Geosphere staff engineer visually classified the materials encountered in the borings in general accordance with the Unified Soil Classification System.

Boring logs with descriptions of the various materials encountered in each boring are presented in Appendix A. The ground surface elevations indicated on the soil boring logs were estimated based on elevations shown on Google Earth.

LABORATORY TESTING

Laboratory tests were performed on 32 selected discrete samples to determine the presence of chemicals of concern in accordance with the Treasure Island import soil criteria. The soil samples were transported on ice to a California State-Certified laboratory for testing. Proper chain-of-custody procedures were followed. The soil samples were tested for Volatile Organic Compounds including MTBE4 and TPH gas (EPA 8260B), Semi-Volatile Organic Compounds (EPA 8270C), Pesticides (EPA 8081), PCBs (EPA 8082), TPH diesel and motor oil (EPA 8015M), Naturally Occurring Asbestos (California Air Resource Board Test Method 435), Dioxins and Furans (EPA 8290A), and CAM 17 metals (EPA 6010B/7471A). The soil was also tested for STLC of Chromium (Title 22) in thirty of the samples, due to the relatively high levels discovered through the CAM 17 results. The STLC results will be provided in a supplemental letter.

The attached tables compare all (detected) results to the Treasure Island Soil Import Criteria, which itself is based upon the San Francisco Regional Water Quality Control Board (SFRWQCB) Region 2 Environmental Screening Levels (ESLs) for soils less than three meters in depth in residential areas where water is not a current or potential source of drinking water and the U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSLs) for residential land use. We note that other waste facilities provide their own criteria for acceptance of off-haul material and these results should be provided and screened by them for acceptance or further testing requirements. We recommend that the results be reviewed immediately for any additional testing or extraction requirements. Other testing may require additional sampling depending on the quantity of sample remaining in the labs custody.

LABORATORY FINDINGS

A summary table (Table 9) has been included which lists only those constituents that have exceeded the Import Criteria. Vanadium and Cobalt appear to be the main contaminants on-site, as they express levels higher than the Import Criteria for most samples. A couple of SVOCs exhibit high levels near the surface in E1-1, E3-2 has a high amount of the pesticide Dieldrin, and E5-1 shows a high level of the PCB Aroclor 1254.

CONCLUSIONS AND RECOMMENDATIONS

We recommend that you have the receivers of the soil review these results as soon as possible. We provided the preliminary results to Terraphase and they indicated that a submission of the geotechnical results would be needed for their complete review of the results. Additional consulting and testing may be required by the receiving body including an EPA Phase 1 performed. In addition, we anticipate that a Soils Management Handling Plan may be necessary during construction. This could potentially involve quarantining the surficial soils where contamination is more prevalent, and the monitoring/sampling of soil is being prepped for off haul.

LIMITATIONS AND UNIFORMITY OF CONDITIONS

This report is issued with the understanding that it is the responsibility of the owner or his representatives to see that the information and recommendations contained herein are called to the attention of the other members of the design team and incorporated into the plans and specifications, and that the necessary steps are taken to see that the recommendations are implemented during construction.

We note that no geotechnical data has been gathered from our activities on site thus far, in accordance with our prior proposal to you. The findings and recommendations presented in this report are valid as of the present time for the development as currently proposed. However, changes in the conditions of the property or adjacent properties may occur with the passage of time, whether by natural processes or the acts of other persons. In addition, changes in applicable or appropriate standards may occur through legislation or the broadening of knowledge. Accordingly the findings and recommendations presented in this report may be invalidated, wholly or in part, by changes outside our control.

Should you or members of the design team have questions or need additional information, please contact either of the undersigned at eswenson@geosphereinc.net. We greatly appreciate the opportunity to be of service to you.

Sincerely,

GEOSPHERE CONSULTANTS INC.



Nick Anastasio, EIT
Staff Geotechnical Engineer



Eric J. Swenson, G.E., C.E.G.
President



Attachments: Tables 1 thru 9
Figure 1 – Site Vicinity Map
Figure 2 – Boring Location Plan
Appendix A – Boring Logs
Accutest Analytical Results (Sent under separate cover)

Distribution: 2 plus PDF to Addressee, NKumar@shcmllc.com
PDF to Paul Hanson, phansen@shcmllc.com

CF/CTD/EJS:pmf



Table 1. Summary of Detected Results, Vallco Mall Soil Sampling, September 6, 2016

Constituent	E1-1	E1-2	E1-3	E1-4	Import Criteria*
Inorganics/CAM 17 metals					
Arsenic	2.5	3.5	ND	3.0	10
Barium	344	174	76.4	96.7	1500
Chromium	32.9	84.9	54.7	89.6	2500
Cobalt	ND	19.7	ND	19.6	16
Copper	25.4	38.1	23.3	30.2	310
Lead	7.4	9.1	ND	7.3	80
Mercury (elemental)	0.087	0.045	0.063	0.043	1.0
Nickel	36.7	105	48.7	87.6	490
Vanadium	37.2	64.1	59.5	69.0	39
Zinc	44.7	58.3	35.2	48.5	2,300
Pesticides/PCBs					
None Detected					N/A
Volatile and Semi-volatile organic chemicals (VOCs/SVOCs), including Polycyclic Aromatic Hydrocarbons (PAHs)					
Benzo(a)pyrene	0.0297 J	ND	ND	ND	0.016
Benzo(b)fluoranthene	0.0416 J	ND	ND	ND	0.16
Benzo(g,h,i)perylene	0.0316 J	ND	ND	ND	2.5
Benzo(k)fluoranthene	0.0203 J	ND	ND	ND	1.6
Chrysene	0.0553	ND	ND	ND	3.8
Dibenz(a,h)anthracene	0.0176 J	ND	ND	ND	0.016
1-Methylnaphthalene	0.168 J	ND	ND	ND	N/A
2-Methylnaphthalene	0.178 J	ND	ND	ND	0.25
Total Petroleum Hydrocarbons (TPH)					
TPH (diesel)	120 J	ND	ND	ND	230
TPH (motor oil)	841	ND	ND	2.78 J	5100

All results in milligram per kilogram (mg/kg).

ND Not detected above method detection limit (MDL)

J Estimated value

*Import Criteria: Based on "Treasure Island Soil Import Criteria" (2016)

Reported Concentrations in bold exceed the corresponding screening value, or other typical disposal/re-use criteria.



Table 2. Summary of Detected Results, Vallco Mall Soil Sampling, September 6, 2016

Constituent	E1-8	E2-1	E2-2	E2-3	ESL*
Inorganics/CAM 17 metals					
Arsenic	3.6	3.3	3.1	3.1	10
Barium	90.9	111	218	198	1500
Chromium	27.8	50.9	74.4	79.8	2500
Cobalt	ND	13	16.1	18.8	16
Copper	19.3	4.1	35.0	36.4	310
Lead	7.4	3.2	9.3	9.3	80
Mercury (elemental)	0.45	0.038	ND	ND	1.0
Nickel	36.2	6.5	94.4	100	490
Vanadium	31.2	8.1	47.2	49.2	39
Zinc	47.5	3.2	52.6	54.8	2,300
Pesticides/PCBs					
None Detected					N/A
Volatile and Semi-volatile organic chemicals (VOCs/SVOCs), including Polycyclic Aromatic Hydrocarbons (PAHs)					
Acetone	ND	ND	0.026 J	ND	0.50
Bis(2-Ethylhexyl)phthalate	ND	0.0388 J	ND	ND	39
Total Petroleum Hydrocarbons (TPH)					
TPH (diesel)	ND	2.86 J	ND	ND	230
TPH (motor oil)	ND	11.4	ND	ND	5100

All results in milligram per kilogram (mg/kg).

ND Not detected above method detection limit (MDL)

J Estimated value

*Import Criteria: Based on "Treasure Island Soil Import Criteria" (2016)

Reported Concentrations in bold exceed the corresponding screening value, or other typical disposal/re-use criteria.



Table 3. Summary of Detected Results, Vallico Mall Soil Sampling, September 6, 2016

Constituent	E2-5	E2-7	E3-1	E3-2	ESL*
Inorganics/CAM 17 metals					
Arsenic	3.7	3.0	3.2	2.7	10
Barium	164	128	152	143	1500
Chromium	72.6	67.7	62.0	65.1	2500
Cobalt	17.7	16.1	14.2	15.2	16
Copper	37.0	35.0	29.6	30.9	310
Lead	8.5	7.6	8.1	9.1	80
Mercury (elemental)	0.10	0.093	0.042	0.042	1.0
Nickel	95.6	90.8	70.9	77.5	490
Vanadium	53.4	44.5	47.2	50.0	39
Zinc	53.8	56.5	55.2	52.0	2,300
Pesticides/PCBs					
4, 4' – DDD	ND	ND	ND	0.0017 J	1.0
4, 4' – DDE	ND	ND	ND	0.0208	1.0
Dieldrin	ND	ND	ND	0.0025 J	0.00017
Volatile and Semi-volatile organic chemicals (VOCs/SVOCs), including Polycyclic Aromatic Hydrocarbons (PAHs)					
Acetone	ND	ND	ND	0.0951	0.50
2-Butanone (MEK)	ND	ND	ND	0.0151	5.1
Total Petroleum Hydrocarbons (TPH)					
TPH (diesel)	ND	ND	ND	4.60 J	230
TPH (motor oil)	ND	ND	6.52	6.48	5100

All results in milligram per kilogram (mg/kg).

ND Not detected above method detection limit (MDL)

J Estimated value

*Import Criteria: Based on "Treasure Island Soil Import Criteria" (2016)

Reported Concentrations in bold exceed the corresponding screening value, or other typical disposal/re-use criteria.

**Table 4. Summary of Detected Results, Vallico Mall Soil Sampling, September 6, 2016**

Constituent	E3-4	E3-6	E4-1	E4-2	ESL*
Inorganics/CAM 17 metals					
Arsenic	3.2	3.1	3.9	4.5	10
Barium	147	120	172	167	1500
Chromium	66.1	78.1	82.5	65.3	2500
Cobalt	15.5	12.6	17.9	16.7	16
Copper	30.6	27.7	39.0	32.0	310
Lead	7.4	6.9	9.6	10.5	80
Mercury (elemental)	0.10	0.062	0.098	0.044	1.0
Nickel	78.2	65.5	101	82.4	490
Vanadium	54.7	66.7	61.4	52.5	39
Zinc	47.0	47.7	59.7	56.6	2,300
Pesticides/PCBs					
None Detected					N/A
Volatile and Semi-volatile organic chemicals (VOCs/SVOCs), including Polycyclic Aromatic Hydrocarbons (PAHs)					
Acetone	0.104	ND	ND	ND	0.50
2-Butanone (MEK)	0.0163 J	ND	ND	ND	5.1
Methylene Chloride	ND	0.0113	0.0104 J	0.0099	0.077
Total Petroleum Hydrocarbons (TPH)					
TPH (diesel)	ND	ND	ND	ND	230
TPH (motor oil)	2.40 J	ND	3.60 J	ND	5100

All results in milligram per kilogram (mg/kg).

ND Not detected above method detection limit (MDL)

J Estimated value

*Import Criteria: Based on "Treasure Island Soil Import Criteria" (2016)

Reported Concentrations in bold exceed the corresponding screening value, or other typical disposal/re-use criteria.



Table 5. Summary of Detected Results, Vallico Mall Soil Sampling, September 6, 2016

Constituent	E4-3	E5-1	E5-2	E5-3	ESL*
Inorganics/CAM 17 metals					
Arsenic	4.7	3.8	4.1	2.9	10
Barium	140	364	158	136	1500
Chromium	58.7	66.6	74.1	73.2	2500
Cobalt	15.8	14.7	16.5	16.9	16
Copper	34.1	33.1	33.5	33.3	310
Lead	9.7	15.7	14.4	8.1	80
Mercury (elemental)	0.12	0.090	0.048	0.045	1.0
Nickel	93.7	72.5	86.1	86.9	490
Vanadium	49.2	60.9	59.6	52.2	39
Zinc	58.0	61.9	64.6	52.9	2,300
Pesticides/PCBs					
4, 4' – DDD	ND	0.0226 J	ND	ND	1.0
4, 4' – DDE	ND	ND	0.0247	ND	1.0
4, 4' – DDT	ND	0.0336 J	0.0084 J	ND	1.0
Aroclor 1254	ND	0.523	ND	ND	0.12
Dieldrin	ND	ND	0.0055 J	ND	0.00017
Volatile and Semi-volatile organic chemicals (VOCs/SVOCs), including Polycyclic Aromatic Hydrocarbons (PAHs)					
Benzo(a)anthracene	ND	0.0246	ND	ND	0.16
Benzo(a)pyrene	ND	0.0233	ND	ND	0.016
Benzo(b)fluoranthene	ND	0.0194	ND	ND	0.16
Benzo(g,h,i)perylene	ND	0.0402	ND	ND	2.5
Benzo(k)fluoranthene	ND	0.0073 J	ND	ND	1.6
Chrysene	ND	0.0858	ND	ND	3.8
Dibenz(a,h)anthracene	ND	0.0126 J	ND	ND	0.016
Indeno(1,2,3-cd)pyrene	ND	0.0093 J	ND	ND	0.16
Methylene Chloride	0.0083 J	0.0051 J	0.0065 J	0.0086 J	0.077
Pyrene	ND	0.0309 J	ND	ND	85
Total Petroleum Hydrocarbons (TPH)					
TPH (diesel)	ND	88.3	3.02 J	ND	230
TPH (motor oil)	ND	218	10.8	3.77 J	5100

All results in milligram per kilogram (mg/kg).

ND Not detected above method detection limit (MDL)

J Estimated value

*Import Criteria: Based on "Treasure Island Soil Import Criteria" (2016)

Reported Concentrations in bold exceed the corresponding screening value, or other typical disposal/re-use criteria.



Table 6. Summary of Detected Results, Vallico Mall Soil Sampling, September 6, 2016

Constituent	E6-1	E6-2	E6-4	E7-1	ESL*
Inorganics/CAM 17 metals					
Arsenic	3.5	3.5	2.4	ND	10
Barium	135	199	135	156	1500
Chromium	77.3	78.8	82.3	69.0	2500
Cobalt	16.5	18.1	18.3	14.8	16
Copper	35.1	37.0	34.0	33.9	310
Lead	15.1	9.0	7.7	10.3	80
Mercury (elemental)	0.13	0.056	0.047	0.048	1.0
Nickel	82.6	98.4	81.8	82.5	490
Vanadium	60.3	54.0	63.9	51.2	39
Zinc	58.0	57.1	47.9	52.2	2,300
Pesticides/PCBs					
4, 4' – DDD	0.0295 J	ND	ND	ND	1.0
4, 4' – DDE	0.140	ND	ND	0.0088 J	1.0
4, 4' – DDT	0.0702	ND	ND	ND	1.0
Dieldrin	0.0322	ND	ND	0.0049 J	0.00017
Volatile and Semi-volatile organic chemicals (VOCs/SVOCs), including Polycyclic Aromatic Hydrocarbons (PAHs)					
Acetone	ND	ND	ND	0.210	0.5
Benzo(b)fluoranthene	0.0040 J	ND	ND	ND	0.16
Chrysene	0.0049 J	ND	ND	ND	3.8
Methylene Chloride	0.0134	0.0124	0.0068 J	0.0136	0.077
2-Butanone (MEK)	ND	ND	ND	0.0459	5.1
Total Petroleum Hydrocarbons (TPH)					
TPH (diesel)	6.24	ND	ND	10.1	230
TPH (motor oil)	23.9	7.59	3.42 J	29.7	5100

All results in milligram per kilogram (mg/kg).

ND Not detected above method detection limit (MDL)

J Estimated value

*Import Criteria: Based on "Treasure Island Soil Import Criteria" (2016)

Reported Concentrations in bold exceed the corresponding screening value, or other typical disposal/re-use criteria.



Table 7. Summary of Detected Results, Vallico Mall Soil Sampling, September 6, 2016

Constituent	E7-2	E7-3	E7-5	E8-1	ESL*
Inorganics/CAM 17 metals					
Arsenic	3.0	2.7	4.2	3.7	10
Barium	164	139	115	142	1500
Chromium	71.4	69.0	56.7	70.4	2500
Cobalt	19.3	17.2	11.4	14.6	16
Copper	34.9	33.4	31.1	33.8	310
Lead	9.2	7.6	8.5	37.5	80
Mercury (elemental)	ND	ND	0.12	0.12	1.0
Nickel	96.6	68.6	68.4	81.1	490
Vanadium	41.8	60.1	46.4	52.2	39
Zinc	53.0	51.9	52.7	54.0	2,300
Pesticides/PCBs					
4, 4' – DDE	ND	ND	ND	0.00063 J	1.0
4, 4' – DDT	ND	ND	ND	0.0012 J	1.0
Aroclor 1254	ND	ND	ND	0.0256	0.12
Volatile and Semi-volatile organic chemicals (VOCs/SVOCs), including Polycyclic Aromatic Hydrocarbons (PAHs)					
Acetone	0.0292 J	ND	ND	ND	0.5
Methylene Chloride	0.0085	0.0122	0.0116	0.0102	0.077
Total Petroleum Hydrocarbons (TPH)					
TPH (diesel)	ND	ND	ND	10.5	230
TPH (motor oil)	5.22	ND	ND	44.5	5100

All results in milligram per kilogram (mg/kg).

ND Not detected above method detection limit (MDL)

J Estimated value

*Import Criteria: Based on "Treasure Island Soil Import Criteria" (2016)

Reported Concentrations in bold exceed the corresponding screening value, or other typical disposal/re-use criteria.

**Table 8. Summary of Detected Results, Vallico Mall Soil Sampling, September 6, 2016**

Constituent	E8-2	E8-3	E8-4	E8-5	ESL*
Inorganics/CAM 17 metals					
Arsenic	3.0	3.1	4.4	3.6	10
Barium	177	112	86.7	115	1500
Chromium	76.3	77.5	49.5	48.9	2500
Cobalt	17.6	18.1	11.1	ND	16
Copper	35.5	33.5	25.1	27.3	310
Lead	9.1	8.2	8.2	7.4	80
Mercury (elemental)	ND	0.055	0.065	0.086	1.0
Nickel	93.4	83.1	61.8	62.6	490
Vanadium	52.7	53.9	44.9	43.0	39
Zinc	52.7	49.0	49.6	50.0	2,300
Pesticides/PCBs					
None Detected					N/A
Volatile and Semi-volatile organic chemicals (VOCs/SVOCs), including Polycyclic Aromatic Hydrocarbons (PAHs)					
2-Butanone (MEK)	0.0120 J	ND	ND	ND	5.1
Acetone	0.0730	ND	ND	ND	0.5
Methylene Chloride	0.0091	0.0055 J	0.0129	0.0078 J	0.077
Total Petroleum Hydrocarbons (TPH)					
TPH (diesel)	ND	ND	ND	ND	230
TPH (motor oil)	7.88	ND	ND	ND	5100

All results in milligram per kilogram (mg/kg).

ND Not detected above method detection limit (MDL)

J Estimated value

*Import Criteria: Based on "Treasure Island Soil Import Criteria" (2016)

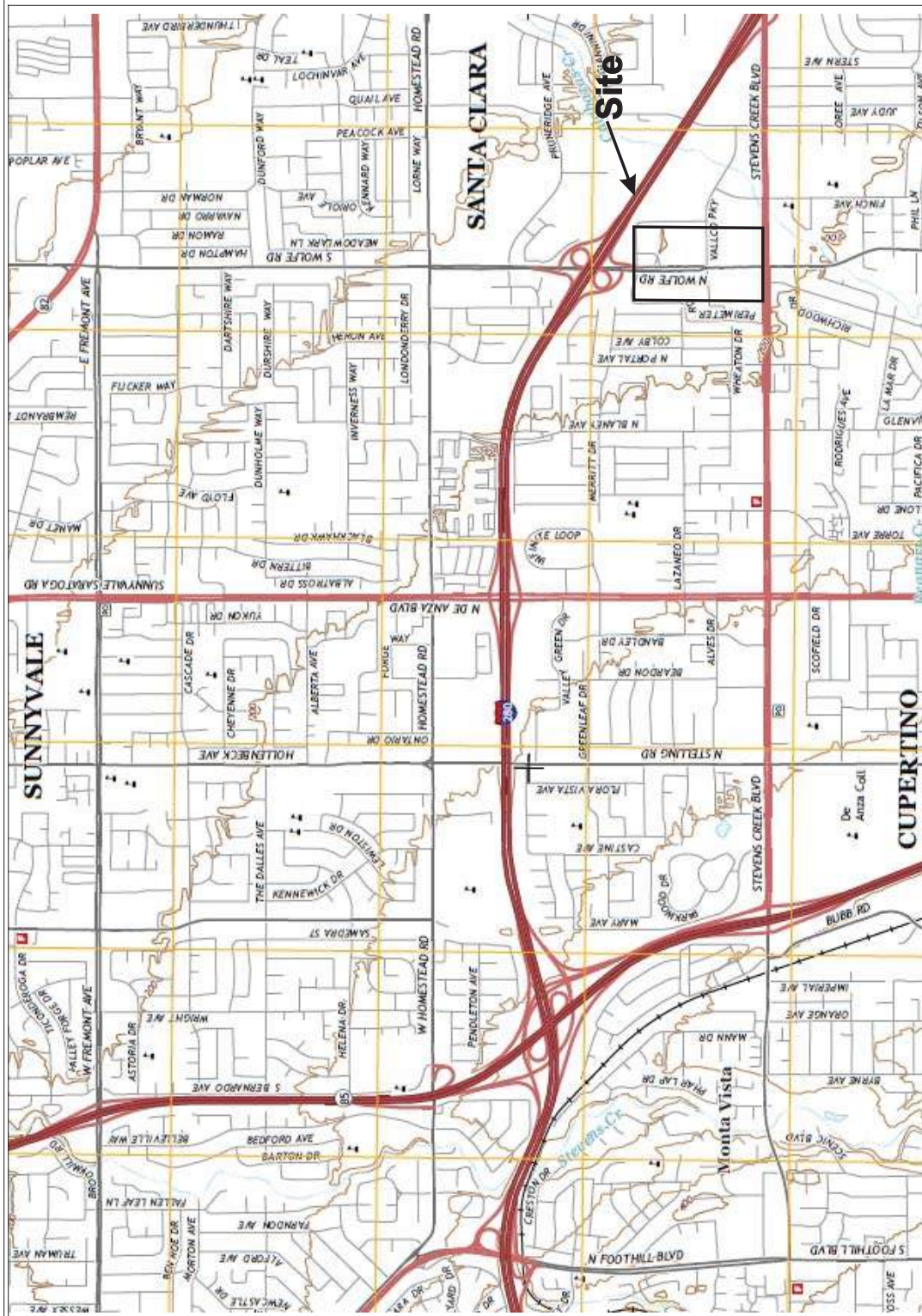
Reported Concentrations in bold exceed the corresponding screening value, or other typical disposal/re-use criteria.

**Table 9. Summary of Detected Results that Surpass Import Criteria, Vallco Mall Soil Sampling,
September 6, 2016**

Sample #	Constituent 1	Detected Amount (mg/kg)	TI Import Criteria (mg/kg)	Constituent 2	Detected Amount (mg/kg)	TI Import Criteria (mg/kg)
E1-1	Benzo(a)pyrene	0.0297	0.016	Dibenz(a,h)anthracene	0.0176	0.016
E1-2	Cobalt	19.7	16	Vanadium	64.1	39
E1-3	Vanadium	59.5	39	N/A	-	-
E1-4	Cobalt	19.6	16	Vanadium	69.0	39
E1-8	<i>No Test Results Exceeded Import Criteria</i>					
E2-1	<i>No Test Results Exceeded Import Criteria</i>					
E2-2	Vanadium	47.2	39	N/A	-	-
E2-3	Cobalt	18.8	16	Vanadium	49.2	39
E2-5	Cobalt	17.7	16	Vanadium	53.4	39
E2-7	Cobalt	16.1	16	Vanadium	44.5	39
E3-1	Vanadium	47.2	39	N/A	-	-
E3-2	Vanadium	50.0	39	Dieldrin	0.0025	0.00017
E3-4	Vanadium	54.7	39	N/A	-	-
E3-6	Vanadium	66.7	39	N/A	-	-
E4-1	Cobalt	17.9	16	Vanadium	61.4	39
E4-2	Cobalt	16.7	16	Vanadium	52.5	39
E4-3	Vanadium	49.2	39	N/A	-	-
E5-1	Vanadium	60.9	39	Aroclor 1254	0.523	0.12
E5-2	Cobalt	16.5	16	Vanadium	59.6	39
E5-3	Cobalt	16.9	16	Vanadium	52.2	39
E6-1	Cobalt	16.5	16	Vanadium	60.3	39
E6-2	Cobalt	18.1	16	Vanadium	54.0	39
E6-4	Cobalt	18.3	16	Vanadium	63.9	39
E7-1	Vanadium	51.2	39	N/A	-	-
E7-2	Vanadium	41.8	39	N/A	-	-
E7-3	Cobalt	17.2	16	Vanadium	60.1	39
E7-5	Vanadium	46.4	39	N/A	-	-
E8-1	Vanadium	52.2	39	N/A	-	-
E8-2	Cobalt	17.6	16	Vanadium	52.7	39
E8-3	Cobalt	18.1	16	Vanadium	53.9	39
E8-4	Vanadium	44.9	39	N/A	-	-
E8-5	Vanadium	43.0	39	N/A	-	-

FIGURES

Figure 1 – Site Vicinity Map
Figure 2 –Boring Location Plan



Source: Cupertino, California-Alameda Co., US Topographic Map
7.5-Minute Series, United States Geological Survey (2015)

Map Scale



The Hills at Valico
Wolfe Road and Valico Parkway
Cupertino, California



September 2016

91-03790-B

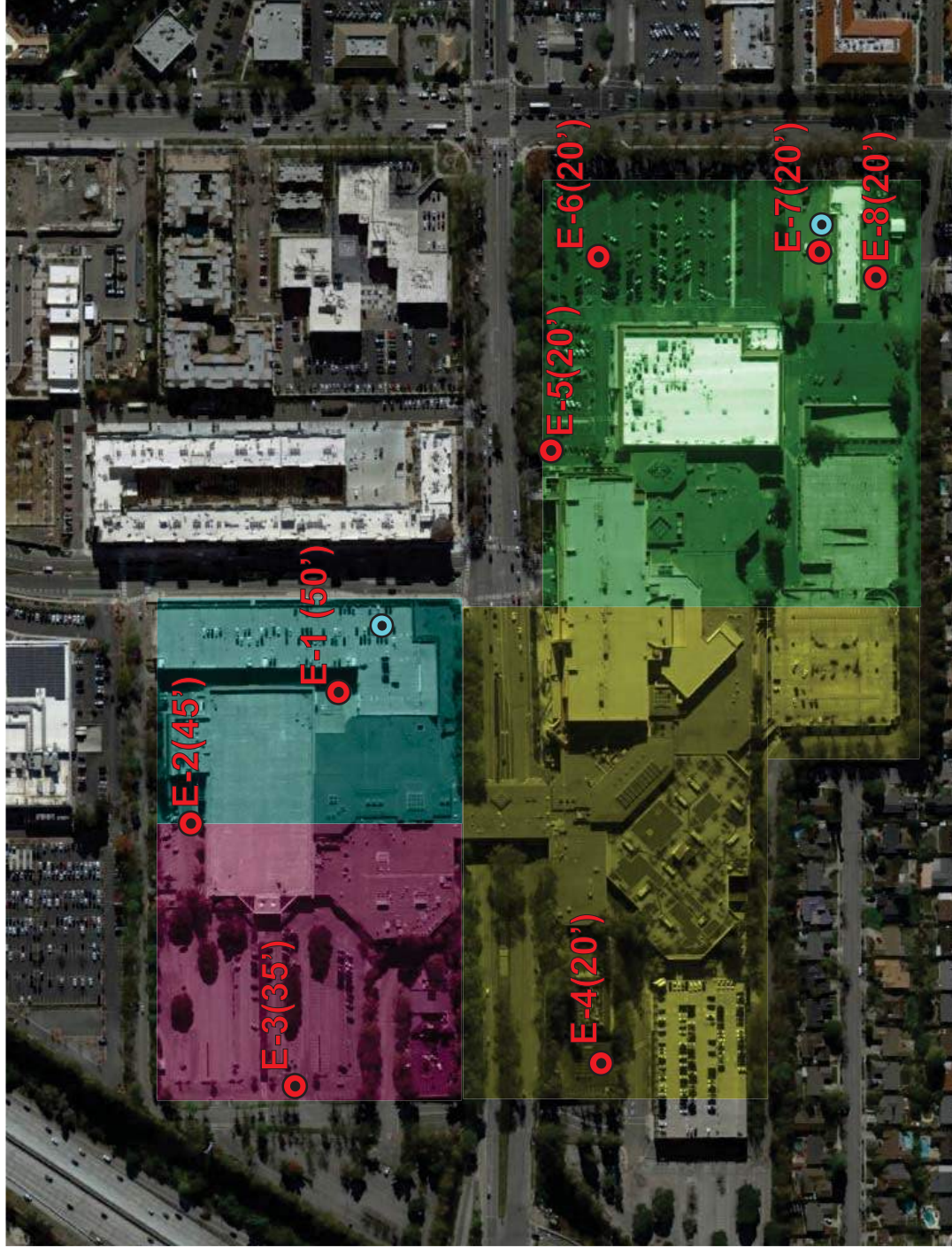
Figure 1

Site Vicinity Map



	Surface Elev: 181' Bottom of Excavation Elev: 128' Elev Difference: 53'
	Surface Elev: 181' Bottom of Excavation Elev: 139' Elev Difference: 42'
	Surface Elev: 180' Bottom of Excavation Elev: 160' Elev Difference: 20'
	Surface Elev: 193' to 180', S to N Bottom of Excavation Elev: 166 to 160', S to N Elev Difference: 27' to 20'

All elevations approximate



- Approximate Environmental Boring Location
- Approximate LUST Location, from GeoTracker

Note: Borings E-3 & E-2 were stopped due to refusal at the indicated depth

The Hills at Valco Wolfe Road and Valco Parkway Cupertino, California	91-03790-B	September 2016
 Geosystems Consultants, Inc. AN EXXON MOBIL COMPANY Environmental & Engineering Services	Environmental Boring Plan	Figure 2

APPENDIX A

Boring Logs



CLIENT Sand Hill Property Company

PROJECT NAME The Hills at Vallco - Analytical Soil Sampling and Testing

PROJECT NUMBER 91-03790-B

PROJECT LOCATION Wolfe Road and Vallco Parkway, Cupertino, CA

DATE STARTED 9/6/16 COMPLETED 9/6/16

GROUND ELEVATION 179 ft HOLE SIZE 2 inches

DRILLING CONTRACTOR Penecore Drilling

GROUND WATER LEVELS:

DRILLING METHOD Geoprobe - DT22

AT TIME OF DRILLING ---

LOGGED BY CF CHECKED BY EJS

AT END OF DRILLING ---

NOTES ---

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	SPT BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		ASPHALT CONCRETE : BASEROCK : (CL) LEAN CLAY : Brown, moist, with sand and gravel.	GB E1-1									
5		Occasional pockets of gravelly material throughout depth.	GB E1-2									
10			GB E1-3									
15		(CL) SANDY CLAY : Brown, moist.	GB E1-4									
20		Sand content fluctuating with depth.	GB E1-5									
25												

(Continued Next Page)



PAGE 2 OF 2

PROJECT NAME The Hills at Vallico - Analytical Soil Sampling and Testing

PROJECT LOCATION Wolfe Road and Vallco Parkway, Cupertino, CA

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	SPT BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
25												
		(CL) SANDY CLAY : Brown, moist. <i>(continued)</i>	 GB E1-6									
		(SC) CLAYEY SAND : Brown, moist.										
30												
		(CL) SANDY CLAY : Brown, moist.	 GB E1-7									
35												
40												
			 GB E1-8									
45												
50												
		Bottom of borehole at 50.0 feet.										



CLIENT Sand Hill Property Company

PROJECT NAME The Hills at Vallco - Analytical Soil Sampling and Testing

PROJECT NUMBER 91-03790-B

PROJECT LOCATION Wolfe Road and Vallco Parkway, Cupertino, CA

DATE STARTED 9/6/16 COMPLETED 9/6/16

GROUND ELEVATION 179 ft HOLE SIZE 2 inches

DRILLING CONTRACTOR Penecore Drilling

GROUND WATER LEVELS:

DRILLING METHOD Geoprobe - DT22

AT TIME OF DRILLING ---

LOGGED BY CF CHECKED BY EJS

AT END OF DRILLING ---

NOTES ---

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	SPT BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		<u>ASPHALT CONCRETE</u> :										
		<u>BASEROCK</u> :	GB									
		(CL) <u>LEAN CLAY</u> : Brown, moist, with fine sand.	E2-1									
5			GB									
			E2-2									
10			GB									
			E2-3									
15		(SC) <u>CLAYEY SAND</u> : Brown, moist.	GB									
			E2-4									
20			GB									
			E2-5									
25		(CL) <u>SANDY CLAY</u> : Brown, moist.										

(Continued Next Page)



PAGE 2 OF 2

PROJECT NAME The Hills at Vallico - Analytical Soil Sampling and Testing

PROJECT LOCATION Wolfe Road and Vallco Parkway, Cupertino, CA

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	SPT BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
25												
		(CL) SANDY CLAY : Brown, moist. <i>(continued)</i>	GB E2-6									
30												
35		Sand content fluctuating with depth.										
40		Boring stopped due to refusal.										
45	GB E2-8											
Bottom of borehole at 45.0 feet.												



CLIENT Sand Hill Property Company
PROJECT NUMBER 91-03790-B
DATE STARTED 9/6/16 **COMPLETED** 9/6/16
DRILLING CONTRACTOR Penecore Drilling
DRILLING METHOD Geoprobe - DT22
LOGGED BY CF **CHECKED BY** EJS
NOTES

PROJECT NAME The Hills at Vallco - Analytical Soil Sampling and Testing
PROJECT LOCATION Wolfe Road and Vallco Parkway, Cupertino, CA
GROUND ELEVATION 182 ft **HOLE SIZE** 2 inches
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	SPT BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		ASPHALT CONCRETE : BASEROCK : (CL) LEAN CLAY : Brown to black, moist, with gravel and rock fragments.	GB E3-1									
5		Less gravel with depth.	GB E3-2									
10		(CL) SANDY CLAY : Brown, moist.	GB E3-3									
15		(CL) LEAN CLAY : Brown, moist.	GB E3-4									
20		(CL) SANDY CLAY : Brown, moist.	GB E3-5									
25												

(Continued Next Page)



CLIENT Sand Hill Property Company

PROJECT NAME The Hills at Vallco - Analytical Soil Sampling and Testing

PROJECT NUMBER 91-03790-B

PROJECT LOCATION Wolfe Road and Vallco Parkway, Cupertino, CA

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	SPT BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
25		(CL) <u>SANDY CLAY</u> : Brown, moist. <i>(continued)</i>										
		(GC) <u>CLAYEY SANDY GRAVEL</u> : Brown, moist.										
30			GB E3-6									
		(SC) <u>CLAYEY SAND</u> : Brown, moist, with gravel.										
		Boring stopped due to refusal.										
35			GB E3-7									

Bottom of borehole at 35.0 feet.



PAGE 1 OF 1

AFTER DRILLING ---

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PAGE 1 OF 1

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	SPT BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0												
		ASPHALT CONCRETE : BASEROCK : (CL) LEAN CLAY : Mottled brown tan black, moist, with gravel.	GB E5-1									
5		(CL) LEAN CLAY : Brown, moist, with sand.	GB E5-2									
10			GB E5-3									
15		(SC) CLAYEY SAND : Brown, moist, with gravel.	GB E5-4									
20		(CL) LEAN CLAY : Brown, moist, with sand.	GB E5-5									
Bottom of borehole at 20.0 feet												

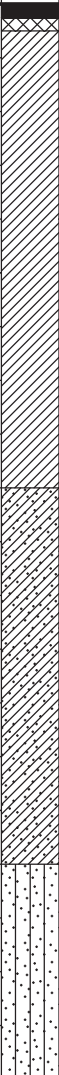
DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	SPT BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0												
		ASPHALT CONCRETE : BASEROCK : (CL) LEAN CLAY : Brown, moist, with gravel and sand.	 GB E6-1									
5			 GB E6-2									
		(CL) LEAN CLAY : Brown, moist.										
10			 GB E6-3									
		(CL) SANDY CLAY : Brown, moist, with gravel.										
15			 GB E6-4									
		(GC) SANDY CLAYEY GRAVEL : Brown, moist.										
20			 GB E6-5									
Bottom of borehole at 20.0 feet												

Bottom of borehole at 20.0 feet.



PAGE 1 OF 1

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	SPT BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0												
		<u>ASPHALT CONCRETE</u> : <u>BASEROCK</u> : (CL) <u>LEAN CLAY</u> : Grey black, moist, with gravel and sand. (CL) <u>LEAN CLAY</u> : Brown, moist, with trace sand. (CL) <u>SANDY CLAY</u> : Brown, moist, with fine gravel. (ML) <u>SANDY SILT</u> : Tan, moist.	 GB E7-1  GB E7-2  GB E7-3  GB E7-4  GB E7-5									
5												
10												
15												
20												
Bottom of borehole at 20.0 feet												

Bottom of borehole at 20.0 feet.



PAGE 1 OF 1

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	SPT BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0												
		ASPHALT CONCRETE : BASEROCK : (CL) LEAN CLAY : Grey black, moist, with gravel and sand.	 GB E8-1									
5		(CL) LEAN CLAY : Brown, moist.	 GB E8-2									
10		(CL) SANDY CLAY : Brown, moist.	 GB E8-3									
15		(ML) SANDY SILT : Tan, moist.	 GB E8-4									
20			 GB E8-5									
Bottom of borehole at 20.0 feet												

ACCUTEST ANALYTICAL RESULTS



ACCUTEST
Northern California

09/19/16

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VERIFICATION, TESTING AND CERTIFICATION COMPANY.



e-Hardcopy 2.0
Automated Report

Technical Report for

Geosphere Consultants

Vallco Mall, Wolfe Rd, Cupertino CA

91-03790-B

SGS Accutest Job Number: C47015

Sampling Date: 09/06/16

Report to:

Geosphere Consultants
2001 Crow Canyon Road Suite #100
San Ramon, CA 94566
cfrost@geosphereinc.net

ATTN: Nick Anastasio

Total number of pages in report: **493**



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Nutan Kabir 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925)
DoD ELAP (L-A-B L2242)

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Test results relate only to samples analyzed.



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Sample Summary

Geosphere Consultants

Job No: C47015

Vallco Mall, Wolfe Rd, Cupertino CA
Project No: 91-03790-B

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
C47015-1	09/06/16	00:00	09/08/16	SO	Soil	E1-1
C47015-2	09/06/16	00:00	09/08/16	SO	Soil	E1-2
C47015-3	09/06/16	00:00	09/08/16	SO	Soil	E1-3
C47015-4	09/06/16	00:00	09/08/16	SO	Soil	E1-4
C47015-5	09/06/16	00:00	09/08/16	SO	Soil	E1-8
C47015-6	09/06/16	00:00	09/08/16	SO	Soil	E2-1
C47015-7	09/06/16	00:00	09/08/16	SO	Soil	E2-2
C47015-8	09/06/16	00:00	09/08/16	SO	Soil	E2-3
C47015-9	09/06/16	00:00	09/08/16	SO	Soil	E2-5
C47015-10	09/06/16	00:00	09/08/16	SO	Soil	E2-7
C47015-11	09/06/16	00:00	09/08/16	SO	Soil	E3-1
C47015-12	09/06/16	00:00	09/08/16	SO	Soil	E3-2
C47015-13	09/06/16	00:00	09/08/16	SO	Soil	E3-4

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SGS Accutest

Sample Summary

(continued)

Geosphere Consultants

Job No: C47015

Vallco Mall, Wolfe Rd, Cupertino CA
Project No: 91-03790-B

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
C47015-14	09/06/16	00:00	09/08/16	SO	Soil	E3-6
C47015-15	09/06/16	00:00	09/08/16	SO	Soil	E4-1
C47015-16	09/06/16	00:00	09/08/16	SO	Soil	E4-2
C47015-17	09/06/16	00:00	09/08/16	SO	Soil	E4-3
C47015-18	09/06/16	00:00	09/08/16	SO	Soil	E5-1
C47015-19	09/06/16	00:00	09/08/16	SO	Soil	E5-2
C47015-20	09/06/16	00:00	09/08/16	SO	Soil	E5-3
C47015-21	09/06/16	00:00	09/08/16	SO	Soil	E6-1
C47015-22	09/06/16	00:00	09/08/16	SO	Soil	E6-2
C47015-23	09/06/16	00:00	09/08/16	SO	Soil	E6-4
C47015-24	09/06/16	00:00	09/08/16	SO	Soil	E7-1
C47015-25	09/06/16	00:00	09/08/16	SO	Soil	E7-2
C47015-26	09/06/16	00:00	09/08/16	SO	Soil	E7-3

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SGS Accutest

Sample Summary

(continued)

Geosphere Consultants

Job No: C47015

Vallco Mall, Wolfe Rd, Cupertino CA
Project No: 91-03790-B

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
C47015-27	09/06/16	00:00	09/08/16	SO	Soil	E7-5
C47015-28	09/06/16	00:00	09/08/16	SO	Soil	E8-1
C47015-29	09/06/16	00:00	09/08/16	SO	Soil	E8-2
C47015-30	09/06/16	00:00	09/08/16	SO	Soil	E8-3
C47015-31	09/06/16	00:00	09/08/16	SO	Soil	E8-4
C47015-32	09/06/16	00:00	09/08/16	SO	Soil	E8-5

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Page 1 of 12

Job Number: C47015
Account: Geosphere Consultants
Project: Vallco Mall, Wolfe Rd, Cupertino CA
Collected: 09/06/16

2

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C47015-1	E1-1					
Benzo(a)pyrene ^a		29.7 J	54	14	ug/kg	SW846 8270D BY SIM
Benzo(b)fluoranthene ^a		41.6 J	54	14	ug/kg	SW846 8270D BY SIM
Benzo(g,h,i)perylene ^a		31.6 J	54	14	ug/kg	SW846 8270D BY SIM
Benzo(k)fluoranthene ^a		20.3 J	54	14	ug/kg	SW846 8270D BY SIM
Chrysene ^a		55.3	54	14	ug/kg	SW846 8270D BY SIM
Dibenzo(a,h)anthracene ^a		17.6 J	54	14	ug/kg	SW846 8270D BY SIM
1-Methylnaphthalene ^a		168 J	270	110	ug/kg	SW846 8270D BY SIM
2-Methylnaphthalene ^a		178 J	270	110	ug/kg	SW846 8270D BY SIM
TPH (C10-C28) ^b		120 J	190	97	mg/kg	SW846 8015C
TPH (> C28-C40) ^b		841	190	97	mg/kg	SW846 8015C
Arsenic ^c		2.5	2.5		mg/kg	SW846 6010C
Barium ^c		344	50		mg/kg	SW846 6010C
Chromium ^c		32.9	2.5		mg/kg	SW846 6010C
Copper ^c		25.4	6.3		mg/kg	SW846 6010C
Lead ^c		7.4	5.0		mg/kg	SW846 6010C
Mercury ^b		0.087	0.040		mg/kg	SW846 7471B
Nickel ^c		36.7	10		mg/kg	SW846 6010C
Vanadium ^c		37.2	13		mg/kg	SW846 6010C
Zinc ^c		44.7	5.0		mg/kg	SW846 6010C
C47015-2	E1-2					
Arsenic ^c		3.5	2.4		mg/kg	SW846 6010C
Barium ^c		174	47		mg/kg	SW846 6010C
Chromium ^c		84.9	2.4		mg/kg	SW846 6010C
Cobalt ^c		19.7	12		mg/kg	SW846 6010C
Copper ^c		38.1	5.9		mg/kg	SW846 6010C
Lead ^c		9.1	4.7		mg/kg	SW846 6010C
Mercury ^b		0.045	0.037		mg/kg	SW846 7471B
Nickel ^c		105	9.4		mg/kg	SW846 6010C
Vanadium ^c		64.1	12		mg/kg	SW846 6010C
Zinc ^c		58.3	4.7		mg/kg	SW846 6010C
C47015-3	E1-3					
Barium ^c		76.4	48		mg/kg	SW846 6010C
Chromium ^c		54.7	2.4		mg/kg	SW846 6010C
Copper ^c		23.3	6.0		mg/kg	SW846 6010C
Mercury ^b		0.063	0.040		mg/kg	SW846 7471B
Nickel ^c		48.7	9.6		mg/kg	SW846 6010C
Vanadium ^c		59.5	12		mg/kg	SW846 6010C
Zinc ^c		35.2	4.8		mg/kg	SW846 6010C

Summary of Hits

Job Number: C47015
Account: Geosphere Consultants
Project: Vallco Mall, Wolfe Rd, Cupertino CA
Collected: 09/06/16

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C47015-4		E1-4				
TPH (> C28-C40) ^b		2.78 J	5.0	2.5	mg/kg	SW846 8015C
Arsenic ^c		3.0	1.8		mg/kg	SW846 6010C
Barium ^c		96.7	37		mg/kg	SW846 6010C
Chromium ^c		89.6	1.8		mg/kg	SW846 6010C
Cobalt ^c		19.6	9.2		mg/kg	SW846 6010C
Copper ^c		30.2	4.6		mg/kg	SW846 6010C
Lead ^c		7.3	3.7		mg/kg	SW846 6010C
Mercury ^b		0.043	0.038		mg/kg	SW846 7471B
Nickel ^c		87.6	7.4		mg/kg	SW846 6010C
Vanadium ^c		69.0	9.2		mg/kg	SW846 6010C
Zinc ^c		48.5	3.7		mg/kg	SW846 6010C
C47015-5		E1-8				
Arsenic ^c		3.6	1.9		mg/kg	SW846 6010C
Barium ^c		90.9	37		mg/kg	SW846 6010C
Chromium ^c		27.8	1.9		mg/kg	SW846 6010C
Copper ^c		19.3	4.6		mg/kg	SW846 6010C
Lead ^c		7.4	3.7		mg/kg	SW846 6010C
Mercury ^b		0.45	0.078		mg/kg	SW846 7471B
Nickel ^c		36.2	7.4		mg/kg	SW846 6010C
Vanadium ^c		31.2	9.3		mg/kg	SW846 6010C
Zinc ^c		47.5	3.7		mg/kg	SW846 6010C
C47015-6		E2-1				
bis(2-Ethylhexyl)phthalate ^b		38.8 J	330	33	ug/kg	SW846 8270D
TPH (C10-C28) ^b		2.86 J	5.1	2.5	mg/kg	SW846 8015C
TPH (> C28-C40) ^b		11.4	5.1	2.5	mg/kg	SW846 8015C
Arsenic ^c		3.3	1.6		mg/kg	SW846 6010C
Barium ^c		111	32		mg/kg	SW846 6010C
Chromium ^c		50.9	1.6		mg/kg	SW846 6010C
Cobalt ^c		13.0	8.1		mg/kg	SW846 6010C
Copper ^c		27.1	4.1		mg/kg	SW846 6010C
Lead ^c		7.7	3.2		mg/kg	SW846 6010C
Mercury ^b		0.092	0.038		mg/kg	SW846 7471B
Nickel ^c		69.1	6.5		mg/kg	SW846 6010C
Vanadium ^c		36.5	8.1		mg/kg	SW846 6010C
Zinc ^c		46.0	3.2		mg/kg	SW846 6010C
C47015-7		E2-2				
Acetone ^d		26.0 J	48	9.9	ug/kg	SW846 8260B

Summary of Hits

Job Number: C47015
Account: Geosphere Consultants
Project: Vallco Mall, Wolfe Rd, Cupertino CA
Collected: 09/06/16

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Arsenic ^c		3.1	1.7		mg/kg	SW846 6010C
Barium ^c		218	34		mg/kg	SW846 6010C
Chromium ^c		74.4	1.7		mg/kg	SW846 6010C
Cobalt ^c		16.1	8.6		mg/kg	SW846 6010C
Copper ^c		35.0	4.3		mg/kg	SW846 6010C
Lead ^c		9.3	3.4		mg/kg	SW846 6010C
Nickel ^c		94.4	6.9		mg/kg	SW846 6010C
Vanadium ^c		47.2	8.6		mg/kg	SW846 6010C
Zinc ^c		52.6	3.4		mg/kg	SW846 6010C
C47015-8	E2-3					
Arsenic ^c		3.1	1.9		mg/kg	SW846 6010C
Barium ^c		198	39		mg/kg	SW846 6010C
Chromium ^c		79.8	1.9		mg/kg	SW846 6010C
Cobalt ^c		18.8	9.7		mg/kg	SW846 6010C
Copper ^c		36.4	4.8		mg/kg	SW846 6010C
Lead ^c		9.3	3.9		mg/kg	SW846 6010C
Nickel ^c		100	7.8		mg/kg	SW846 6010C
Vanadium ^c		49.2	9.7		mg/kg	SW846 6010C
Zinc ^c		54.8	3.9		mg/kg	SW846 6010C
C47015-9	E2-5					
Arsenic ^c		3.7	2.2		mg/kg	SW846 6010C
Barium ^c		164	43		mg/kg	SW846 6010C
Chromium ^c		72.6	2.2		mg/kg	SW846 6010C
Cobalt ^c		17.7	11		mg/kg	SW846 6010C
Copper ^c		37.0	5.4		mg/kg	SW846 6010C
Lead ^c		8.5	4.3		mg/kg	SW846 6010C
Mercury ^b		0.10	0.038		mg/kg	SW846 7471B
Nickel ^c		95.6	8.6		mg/kg	SW846 6010C
Vanadium ^c		53.4	11		mg/kg	SW846 6010C
Zinc ^c		53.8	4.3		mg/kg	SW846 6010C
C47015-10	E2-7					
Arsenic ^c		3.0	2.3		mg/kg	SW846 6010C
Barium ^c		128	46		mg/kg	SW846 6010C
Chromium ^c		67.7	2.3		mg/kg	SW846 6010C
Cobalt ^c		16.1	11		mg/kg	SW846 6010C
Copper ^c		35.0	5.7		mg/kg	SW846 6010C
Lead ^c		7.6	4.6		mg/kg	SW846 6010C
Mercury ^b		0.093	0.039		mg/kg	SW846 7471B
Nickel ^c		90.8	9.2		mg/kg	SW846 6010C

Summary of Hits

Job Number: C47015
Account: Geosphere Consultants
Project: Vallco Mall, Wolfe Rd, Cupertino CA
Collected: 09/06/16

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Vanadium ^c		44.5	11		mg/kg	SW846 6010C
Zinc ^c		56.5	4.6		mg/kg	SW846 6010C
C47015-11 E3-1						
TPH (> C28-C40) ^b		6.52	5.0	2.5	mg/kg	SW846 8015C
Arsenic ^c		3.2	1.8		mg/kg	SW846 6010C
Barium ^c		152	35		mg/kg	SW846 6010C
Chromium ^c		62.0	1.8		mg/kg	SW846 6010C
Cobalt ^c		14.2	8.8		mg/kg	SW846 6010C
Copper ^c		29.6	4.4		mg/kg	SW846 6010C
Lead ^c		8.1	3.5		mg/kg	SW846 6010C
Mercury ^b		0.042	0.038		mg/kg	SW846 7471B
Nickel ^c		70.9	7.0		mg/kg	SW846 6010C
Vanadium ^c		47.2	8.8		mg/kg	SW846 6010C
Zinc ^c		55.2	3.5		mg/kg	SW846 6010C
C47015-12 E3-2						
Acetone ^d		95.1	52	11	ug/kg	SW846 8260B
2-Butanone (MEK) ^d		15.1 J	26	9.4	ug/kg	SW846 8260B
TPH (C10-C28) ^b		4.60 J	4.9	2.4	mg/kg	SW846 8015C
TPH (> C28-C40) ^b		6.48	4.9	2.4	mg/kg	SW846 8015C
Dieldrin ^e		2.5 J	3.2	1.2	ug/kg	SW846 8081B
4,4'-DDD ^e		1.7 J	6.5	1.1	ug/kg	SW846 8081B
4,4'-DDE ^e		20.8	6.5	1.0	ug/kg	SW846 8081B
Arsenic ^c		2.7	2.1		mg/kg	SW846 6010C
Barium ^c		143	41		mg/kg	SW846 6010C
Chromium ^c		65.1	2.1		mg/kg	SW846 6010C
Cobalt ^c		15.2	10		mg/kg	SW846 6010C
Copper ^c		30.9	5.2		mg/kg	SW846 6010C
Lead ^c		9.1	4.1		mg/kg	SW846 6010C
Mercury ^b		0.042	0.039		mg/kg	SW846 7471B
Nickel ^c		77.5	8.3		mg/kg	SW846 6010C
Vanadium ^c		50.0	10		mg/kg	SW846 6010C
Zinc ^c		52.0	4.1		mg/kg	SW846 6010C
C47015-13 E3-4						
Acetone ^d		104	55	11	ug/kg	SW846 8260B
2-Butanone (MEK) ^d		16.3 J	27	9.9	ug/kg	SW846 8260B
TPH (> C28-C40) ^b		2.40 J	4.9	2.4	mg/kg	SW846 8015C
Arsenic ^c		3.2	1.7		mg/kg	SW846 6010C
Barium ^c		147	34		mg/kg	SW846 6010C
Chromium ^c		66.1	1.7		mg/kg	SW846 6010C

Summary of Hits

Job Number: C47015
Account: Geosphere Consultants
Project: Vallco Mall, Wolfe Rd, Cupertino CA
Collected: 09/06/16

Lab Sample ID	Client Sample ID	Result/ Analyte Qual	RL	MDL	Units	Method
Cobalt ^c		15.5	8.6		mg/kg	SW846 6010C
Copper ^c		30.6	4.3		mg/kg	SW846 6010C
Lead ^c		7.4	3.4		mg/kg	SW846 6010C
Mercury ^b		0.10	0.038		mg/kg	SW846 7471B
Nickel ^c		78.2	6.9		mg/kg	SW846 6010C
Vanadium ^c		54.7	8.6		mg/kg	SW846 6010C
Zinc ^c		47.0	3.4		mg/kg	SW846 6010C
C47015-14 E3-6						
Methylene Chloride ^f		11.3	9.5	3.8	ug/kg	SW846 8260B
Arsenic ^c		3.1	1.9		mg/kg	SW846 6010C
Barium ^c		120	38		mg/kg	SW846 6010C
Chromium ^c		78.1	1.9		mg/kg	SW846 6010C
Cobalt ^c		12.6	9.4		mg/kg	SW846 6010C
Copper ^c		27.7	4.7		mg/kg	SW846 6010C
Lead ^c		6.9	3.8		mg/kg	SW846 6010C
Mercury ^b		0.062	0.038		mg/kg	SW846 7471B
Nickel ^c		65.5	7.5		mg/kg	SW846 6010C
Vanadium ^c		66.7	9.4		mg/kg	SW846 6010C
Zinc ^c		47.7	3.8		mg/kg	SW846 6010C
C47015-15 E4-1						
Methylene Chloride ^f		10.4 J	11	4.3	ug/kg	SW846 8260B
TPH (> C28-C40) ^b		3.60 J	4.9	2.5	mg/kg	SW846 8015C
Arsenic ^c		3.9	2.1		mg/kg	SW846 6010C
Barium ^c		172	42		mg/kg	SW846 6010C
Chromium ^c		82.5	2.1		mg/kg	SW846 6010C
Cobalt ^c		17.9	11		mg/kg	SW846 6010C
Copper ^c		39.0	5.3		mg/kg	SW846 6010C
Lead ^c		9.6	4.2		mg/kg	SW846 6010C
Mercury ^b		0.098	0.040		mg/kg	SW846 7471B
Nickel ^c		101	8.5		mg/kg	SW846 6010C
Vanadium ^c		61.4	11		mg/kg	SW846 6010C
Zinc ^c		59.7	4.2		mg/kg	SW846 6010C
C47015-16 E4-2						
Methylene Chloride ^f		9.9	8.7	3.5	ug/kg	SW846 8260B
Arsenic ^c		4.5	1.8		mg/kg	SW846 6010C
Barium ^c		167	37		mg/kg	SW846 6010C
Chromium ^c		65.3	1.8		mg/kg	SW846 6010C
Cobalt ^c		16.7	9.2		mg/kg	SW846 6010C
Copper ^c		32.0	4.6		mg/kg	SW846 6010C

Summary of Hits

Job Number: C47015
Account: Geosphere Consultants
Project: Vallco Mall, Wolfe Rd, Cupertino CA
Collected: 09/06/16

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Lead ^c		10.5	3.7		mg/kg	SW846 6010C
Mercury ^b		0.044	0.038		mg/kg	SW846 7471B
Nickel ^c		82.4	7.4		mg/kg	SW846 6010C
Vanadium ^c		52.5	9.2		mg/kg	SW846 6010C
Zinc ^c		56.6	3.7		mg/kg	SW846 6010C
C47015-17 E4-3						
Methylene Chloride ^f		8.3 J	10	4.1	ug/kg	SW846 8260B
Arsenic ^c		4.7	2.2		mg/kg	SW846 6010C
Barium ^c		140	44		mg/kg	SW846 6010C
Chromium ^c		58.7	2.2		mg/kg	SW846 6010C
Cobalt ^c		15.8	11		mg/kg	SW846 6010C
Copper ^c		34.1	5.5		mg/kg	SW846 6010C
Lead ^c		9.7	4.4		mg/kg	SW846 6010C
Mercury ^b		0.12	0.040		mg/kg	SW846 7471B
Nickel ^c		93.7	8.8		mg/kg	SW846 6010C
Vanadium ^c		49.2	11		mg/kg	SW846 6010C
Zinc ^c		58.0	4.4		mg/kg	SW846 6010C
C47015-18 E5-1						
Methylene Chloride ^f		5.1 J	11	4.4	ug/kg	SW846 8260B
Benzo(a)anthracene ^b		24.6	13	3.2	ug/kg	SW846 8270D BY SIM
Benzo(a)pyrene ^b		23.3	13	3.2	ug/kg	SW846 8270D BY SIM
Benzo(b)fluoranthene ^b		19.4	13	3.2	ug/kg	SW846 8270D BY SIM
Benzo(g,h,i)perylene ^b		40.2	13	3.2	ug/kg	SW846 8270D BY SIM
Benzo(k)fluoranthene ^b		7.3 J	13	3.2	ug/kg	SW846 8270D BY SIM
Chrysene ^b		85.8	13	3.2	ug/kg	SW846 8270D BY SIM
Dibenzo(a,h)anthracene ^b		12.6 J	13	3.2	ug/kg	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene ^b		9.3 J	13	3.2	ug/kg	SW846 8270D BY SIM
Pyrene ^b		30.9 J	65	16	ug/kg	SW846 8270D BY SIM
TPH (C10-C28) ^b		88.3	25	13	mg/kg	SW846 8015C
TPH (> C28-C40) ^b		218	25	13	mg/kg	SW846 8015C
4,4'-DDD ^e		22.6 J	34	5.8	ug/kg	SW846 8081B
4,4'-DDT ^e		33.6 J	34	6.6	ug/kg	SW846 8081B
Aroclor 1254 ^g		523	84	40	ug/kg	SW846 8082A
Arsenic ^c		3.8	1.7		mg/kg	SW846 6010C
Barium ^c		364	33		mg/kg	SW846 6010C
Chromium ^c		66.6	1.7		mg/kg	SW846 6010C
Cobalt ^c		14.7	8.3		mg/kg	SW846 6010C
Copper ^c		33.1	4.1		mg/kg	SW846 6010C
Lead ^c		15.7	3.3		mg/kg	SW846 6010C
Mercury ^b		0.090	0.039		mg/kg	SW846 7471B
Nickel ^c		72.5	6.6		mg/kg	SW846 6010C

Summary of Hits

Job Number: C47015
Account: Geosphere Consultants
Project: Vallco Mall, Wolfe Rd, Cupertino CA
Collected: 09/06/16

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Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Vanadium ^c		60.9	8.3		mg/kg	SW846 6010C
Zinc ^c		61.9	3.3		mg/kg	SW846 6010C
C47015-19		E5-2				
Methylene Chloride ^f		6.5 J	9.3	3.7	ug/kg	SW846 8260B
TPH (C10-C28) ^b		3.02 J	5.0	2.5	mg/kg	SW846 8015C
TPH (> C28-C40) ^b		10.8	5.0	2.5	mg/kg	SW846 8015C
Dieldrin ^e		5.5 J	8.3	3.1	ug/kg	SW846 8081B
4,4'-DDE ^e		24.7	17	2.7	ug/kg	SW846 8081B
4,4'-DDT ^e		8.4 J	17	3.2	ug/kg	SW846 8081B
Arsenic ^c		4.1	2.3		mg/kg	SW846 6010C
Barium ^c		158	46		mg/kg	SW846 6010C
Chromium ^c		74.1	2.3		mg/kg	SW846 6010C
Cobalt ^c		16.5	11		mg/kg	SW846 6010C
Copper ^c		33.5	5.7		mg/kg	SW846 6010C
Lead ^c		14.4	4.6		mg/kg	SW846 6010C
Mercury ^b		0.048	0.038		mg/kg	SW846 7471B
Nickel ^c		86.1	9.2		mg/kg	SW846 6010C
Vanadium ^c		59.6	11		mg/kg	SW846 6010C
Zinc ^c		64.6	4.6		mg/kg	SW846 6010C
C47015-20		E5-3				
Methylene Chloride ^f		8.6 J	9.6	3.9	ug/kg	SW846 8260B
TPH (> C28-C40) ^b		3.77 J	5.0	2.5	mg/kg	SW846 8015C
Arsenic ^c		2.9	2.2		mg/kg	SW846 6010C
Barium ^c		136	45		mg/kg	SW846 6010C
Chromium ^c		73.2	2.2		mg/kg	SW846 6010C
Cobalt ^c		16.9	11		mg/kg	SW846 6010C
Copper ^c		33.3	5.6		mg/kg	SW846 6010C
Lead ^c		8.1	4.5		mg/kg	SW846 6010C
Mercury ^b		0.045	0.037		mg/kg	SW846 7471B
Nickel ^c		86.9	8.9		mg/kg	SW846 6010C
Vanadium ^c		52.2	11		mg/kg	SW846 6010C
Zinc ^c		52.9	4.5		mg/kg	SW846 6010C
C47015-21		E6-1				
Methylene Chloride ^f		13.4	11	4.3	ug/kg	SW846 8260B
Benzo(b)fluoranthene ^b		4.0 J	13	3.4	ug/kg	SW846 8270D BY SIM
Chrysene ^b		4.9 J	13	3.4	ug/kg	SW846 8270D BY SIM
TPH (C10-C28) ^b		6.24	5.0	2.5	mg/kg	SW846 8015C
TPH (> C28-C40) ^b		23.9	5.0	2.5	mg/kg	SW846 8015C
Dieldrin ^e		32.2	17	6.3	ug/kg	SW846 8081B

Summary of Hits

Job Number: C47015
Account: Geosphere Consultants
Project: Vallco Mall, Wolfe Rd, Cupertino CA
Collected: 09/06/16

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
4,4'-DDD ^e		29.5 J	33	5.7	ug/kg	SW846 8081B
4,4'-DDE ^e		140	33	5.4	ug/kg	SW846 8081B
4,4'-DDT ^e		70.2	33	6.5	ug/kg	SW846 8081B
Arsenic ^c		3.5	1.8		mg/kg	SW846 6010C
Barium ^c		135	36		mg/kg	SW846 6010C
Chromium ^c		77.3	1.8		mg/kg	SW846 6010C
Cobalt ^c		16.5	9.1		mg/kg	SW846 6010C
Copper ^c		35.1	4.6		mg/kg	SW846 6010C
Lead ^c		15.1	3.6		mg/kg	SW846 6010C
Mercury ^b		0.13	0.038		mg/kg	SW846 7471B
Nickel ^c		82.6	7.3		mg/kg	SW846 6010C
Vanadium ^c		60.3	9.1		mg/kg	SW846 6010C
Zinc ^c		58.0	3.6		mg/kg	SW846 6010C

C47015-22 E6-2

Methylene Chloride ^f	12.4	12	4.9	ug/kg	SW846 8260B
TPH (> C28-C40) ^b	7.59	5.0	2.5	mg/kg	SW846 8015C
Arsenic ^c	3.5	2.4		mg/kg	SW846 6010C
Barium ^c	199	48		mg/kg	SW846 6010C
Chromium ^c	78.8	2.4		mg/kg	SW846 6010C
Cobalt ^c	18.1	12		mg/kg	SW846 6010C
Copper ^c	37.0	6.0		mg/kg	SW846 6010C
Lead ^c	9.0	4.8		mg/kg	SW846 6010C
Mercury ^b	0.056	0.038		mg/kg	SW846 7471B
Nickel ^c	98.4	9.6		mg/kg	SW846 6010C
Vanadium ^c	54.0	12		mg/kg	SW846 6010C
Zinc ^c	57.1	4.8		mg/kg	SW846 6010C

C47015-23 E6-4

Methylene Chloride ^f	6.8 J	9.4	3.8	ug/kg	SW846 8260B
TPH (> C28-C40) ^b	3.42 J	5.0	2.5	mg/kg	SW846 8015C
Arsenic ^c	2.4	2.1		mg/kg	SW846 6010C
Barium ^c	135	42		mg/kg	SW846 6010C
Chromium ^c	82.3	2.1		mg/kg	SW846 6010C
Cobalt ^c	18.3	11		mg/kg	SW846 6010C
Copper ^c	34.0	5.3		mg/kg	SW846 6010C
Lead ^c	7.7	4.2		mg/kg	SW846 6010C
Mercury ^b	0.047	0.037		mg/kg	SW846 7471B
Nickel ^c	81.8	8.5		mg/kg	SW846 6010C
Vanadium ^c	63.9	11		mg/kg	SW846 6010C
Zinc ^c	47.9	4.2		mg/kg	SW846 6010C

Summary of Hits

Job Number: C47015
Account: Geosphere Consultants
Project: Vallco Mall, Wolfe Rd, Cupertino CA
Collected: 09/06/16



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C47015-24		E7-1				
Acetone ^h		210	43	8.7	ug/kg	SW846 8260B
2-Butanone (MEK) ^h		45.9	21	7.7	ug/kg	SW846 8260B
Methylene Chloride ⁱ		13.6	8.5	3.4	ug/kg	SW846 8260B
TPH (C10-C28) ^b		10.1	5.0	2.5	mg/kg	SW846 8015C
TPH (> C28-C40) ^b		29.7	5.0	2.5	mg/kg	SW846 8015C
Dieldrin ^e		4.9 J	8.3	3.1	ug/kg	SW846 8081B
4,4'-DDE ^e		8.8 J	17	2.7	ug/kg	SW846 8081B
Barium ^c		156	47		mg/kg	SW846 6010C
Chromium ^c		69.0	2.4		mg/kg	SW846 6010C
Cobalt ^c		14.8	12		mg/kg	SW846 6010C
Copper ^c		33.9	5.9		mg/kg	SW846 6010C
Lead ^c		10.3	4.7		mg/kg	SW846 6010C
Mercury ^b		0.048	0.038		mg/kg	SW846 7471B
Nickel ^c		82.5	9.4		mg/kg	SW846 6010C
Vanadium ^c		51.2	12		mg/kg	SW846 6010C
Zinc ^c		52.2	4.7		mg/kg	SW846 6010C
C47015-25		E7-2				
Acetone ^h		29.2 J	42	8.5	ug/kg	SW846 8260B
Methylene Chloride ⁱ		8.5	8.4	3.4	ug/kg	SW846 8260B
TPH (> C28-C40) ^b		5.22	5.0	2.5	mg/kg	SW846 8015C
Arsenic ^c		3.0	2.1		mg/kg	SW846 6010C
Barium ^c		164	42		mg/kg	SW846 6010C
Chromium ^c		71.4	2.1		mg/kg	SW846 6010C
Cobalt ^c		19.3	11		mg/kg	SW846 6010C
Copper ^c		34.9	5.3		mg/kg	SW846 6010C
Lead ^c		9.2	4.2		mg/kg	SW846 6010C
Nickel ^c		96.6	8.4		mg/kg	SW846 6010C
Vanadium ^c		41.8	11		mg/kg	SW846 6010C
Zinc ^c		53.0	4.2		mg/kg	SW846 6010C
C47015-26		E7-3				
Methylene Chloride ⁱ		12.2	8.3	3.3	ug/kg	SW846 8260B
Arsenic ^c		2.7	2.2		mg/kg	SW846 6010C
Barium ^c		139	44		mg/kg	SW846 6010C
Chromium ^c		69.0	2.2		mg/kg	SW846 6010C
Cobalt ^c		17.2	11		mg/kg	SW846 6010C
Copper ^c		33.4	5.5		mg/kg	SW846 6010C
Lead ^c		7.6	4.4		mg/kg	SW846 6010C
Nickel ^c		68.6	8.8		mg/kg	SW846 6010C
Vanadium ^c		60.1	11		mg/kg	SW846 6010C

Summary of Hits

Job Number: C47015
Account: Geosphere Consultants
Project: Vallco Mall, Wolfe Rd, Cupertino CA
Collected: 09/06/16

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Zinc ^c		51.9	4.4		mg/kg	SW846 6010C
C47015-27	E7-5					
Methylene Chloride ⁱ		11.6	8.7	3.5	ug/kg	SW846 8260B
Arsenic ^c		4.2	2.1		mg/kg	SW846 6010C
Barium ^c		115	42		mg/kg	SW846 6010C
Chromium ^c		56.7	2.1		mg/kg	SW846 6010C
Cobalt ^c		11.4	11		mg/kg	SW846 6010C
Copper ^c		31.1	5.3		mg/kg	SW846 6010C
Lead ^c		8.5	4.2		mg/kg	SW846 6010C
Mercury ^b		0.12	0.039		mg/kg	SW846 7471B
Nickel ^c		68.4	8.4		mg/kg	SW846 6010C
Vanadium ^c		46.4	11		mg/kg	SW846 6010C
Zinc ^c		52.7	4.2		mg/kg	SW846 6010C
C47015-28	E8-1					
Methylene Chloride ⁱ		10.2	7.8	3.1	ug/kg	SW846 8260B
TPH (C10-C28) ^b		10.5	5.0	2.5	mg/kg	SW846 8015C
TPH (> C28-C40) ^b		44.5	5.0	2.5	mg/kg	SW846 8015C
4,4'-DDE ^j		0.63 J	3.2	0.52	ug/kg	SW846 8081B
4,4'-DDT ^g		1.2 J	3.2	0.64	ug/kg	SW846 8081B
Aroclor 1254 ^g		25.6	16	7.8	ug/kg	SW846 8082A
Arsenic ^c		3.7	2.4		mg/kg	SW846 6010C
Barium ^c		142	48		mg/kg	SW846 6010C
Chromium ^c		70.4	2.4		mg/kg	SW846 6010C
Cobalt ^c		14.6	12		mg/kg	SW846 6010C
Copper ^c		33.8	6.0		mg/kg	SW846 6010C
Lead ^c		37.5	4.8		mg/kg	SW846 6010C
Mercury ^b		0.12	0.038		mg/kg	SW846 7471B
Nickel ^c		81.1	9.5		mg/kg	SW846 6010C
Vanadium ^c		52.2	12		mg/kg	SW846 6010C
Zinc ^c		54.0	4.8		mg/kg	SW846 6010C
C47015-29	E8-2					
Acetone ^h		73.0	41	8.5	ug/kg	SW846 8260B
2-Butanone (MEK) ^h		12.0 J	21	7.5	ug/kg	SW846 8260B
Methylene Chloride ⁱ		9.1	8.3	3.3	ug/kg	SW846 8260B
TPH (> C28-C40) ^b		7.88	4.9	2.5	mg/kg	SW846 8015C
Arsenic ^c		3.0	2.3		mg/kg	SW846 6010C
Barium ^c		177	46		mg/kg	SW846 6010C
Chromium ^c		76.3	2.3		mg/kg	SW846 6010C
Cobalt ^c		17.6	12		mg/kg	SW846 6010C

Summary of Hits

Job Number: C47015
Account: Geosphere Consultants
Project: Vallco Mall, Wolfe Rd, Cupertino CA
Collected: 09/06/16

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Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Copper ^c		35.5	5.8		mg/kg	SW846 6010C
Lead ^c		9.1	4.6		mg/kg	SW846 6010C
Nickel ^c		93.4	9.3		mg/kg	SW846 6010C
Vanadium ^c		52.7	12		mg/kg	SW846 6010C
Zinc ^c		52.7	4.6		mg/kg	SW846 6010C
C47015-30 E8-3						
Methylene Chloride ⁱ		5.5 J	7.9	3.1	ug/kg	SW846 8260B
Arsenic ^c		3.1	1.9		mg/kg	SW846 6010C
Barium ^c		112	38		mg/kg	SW846 6010C
Chromium ^c		77.5	1.9		mg/kg	SW846 6010C
Cobalt ^c		18.1	9.5		mg/kg	SW846 6010C
Copper ^c		33.5	4.8		mg/kg	SW846 6010C
Lead ^c		8.2	3.8		mg/kg	SW846 6010C
Mercury ^b		0.055	0.040		mg/kg	SW846 7471B
Nickel ^c		83.1	7.6		mg/kg	SW846 6010C
Vanadium ^c		53.9	9.5		mg/kg	SW846 6010C
Zinc ^c		49.0	3.8		mg/kg	SW846 6010C
C47015-31 E8-4						
Methylene Chloride ⁱ		12.9	7.8	3.1	ug/kg	SW846 8260B
Arsenic ^c		4.4	2.2		mg/kg	SW846 6010C
Barium ^c		86.7	45		mg/kg	SW846 6010C
Chromium ^c		49.5	2.2		mg/kg	SW846 6010C
Cobalt ^c		11.1	11		mg/kg	SW846 6010C
Copper ^c		25.1	5.6		mg/kg	SW846 6010C
Lead ^c		8.2	4.5		mg/kg	SW846 6010C
Mercury ^b		0.065	0.038		mg/kg	SW846 7471B
Nickel ^c		61.8	8.9		mg/kg	SW846 6010C
Vanadium ^c		44.9	11		mg/kg	SW846 6010C
Zinc ^c		49.6	4.5		mg/kg	SW846 6010C
C47015-32 E8-5						
Methylene Chloride ⁱ		7.8 J	8.2	3.3	ug/kg	SW846 8260B
Arsenic ^c		3.6	2.3		mg/kg	SW846 6010C
Barium ^c		115	47		mg/kg	SW846 6010C
Chromium ^c		48.9	2.3		mg/kg	SW846 6010C
Copper ^c		27.3	5.8		mg/kg	SW846 6010C
Lead ^c		7.4	4.7		mg/kg	SW846 6010C
Mercury ^b		0.086	0.038		mg/kg	SW846 7471B
Nickel ^c		62.6	9.3		mg/kg	SW846 6010C
Vanadium ^c		43.0	12		mg/kg	SW846 6010C

Summary of Hits

Job Number: C47015
Account: Geosphere Consultants
Project: Vallco Mall, Wolfe Rd, Cupertino CA
Collected: 09/06/16

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Zinc ^c		50.0	4.7		mg/kg	SW846 6010C

- (a) Dilution required due to matrix interference; extract was viscous. Analysis performed at SGS Accutest, Orlando FL.
- (b) Analysis performed at SGS Accutest, Orlando FL.
- (c) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.
- (d) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.
- (e) All hits confirmed by dual column analysis. Dilution required due to matrix interference. Analysis performed at SGS Accutest, Orlando FL.
- (f) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL. Suspected laboratory contaminant.
- (g) All hits confirmed by dual column analysis. Analysis performed at SGS Accutest, Orlando FL.
- (h) Soil vials were not received within 48 hours of sampling; results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.
- (i) Soil vials were not received within 48 hours of sampling; results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL. Suspected laboratory contaminant.
- (j) All hits confirmed by dual column analysis. Analysis performed at SGS Accutest, Orlando FL. Primary and confirmation results differ by more than 40%. Lower value reported due to possible coelution.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	E1-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-1	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	F0079468.D	1	09/10/16	AFL	n/a	n/a	F:VF2731
Run #2							

	Initial Weight	Final Volume
Run #1	5.63 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	44	9.1	ug/kg	
71-43-2	Benzene	ND	4.4	1.1	ug/kg	
108-86-1	Bromobenzene	ND	4.4	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	4.4	0.99	ug/kg	
75-27-4	Bromodichloromethane	ND	4.4	0.89	ug/kg	
75-25-2	Bromoform	ND	4.4	0.89	ug/kg	
78-93-3	2-Butanone (MEK)	ND	22	8.1	ug/kg	
104-51-8	n-Butylbenzene	ND	4.4	0.89	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.4	0.89	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.4	0.89	ug/kg	
56-23-5	Carbon Tetrachloride	ND	4.4	1.6	ug/kg	
108-90-7	Chlorobenzene	ND	4.4	0.89	ug/kg	
75-00-3	Chloroethane	ND	4.4	1.8	ug/kg	
67-66-3	Chloroform	ND	4.4	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.4	0.89	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.4	0.89	ug/kg	
124-48-1	Dibromochloromethane	ND	4.4	0.89	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.4	2.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.4	0.89	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.4	2.2	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.4	0.89	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.4	0.89	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.4	0.91	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.4	1.5	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.4	0.89	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.4	0.89	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.4	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.4	1.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.4	1.4	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.4	0.89	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.4	0.89	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.4	1.1	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-1	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	4.4	1.7	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.4	0.89	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	4.4	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	4.4	0.97	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	4.4	1.1	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.4	1.9	ug/kg	
591-78-6	2-Hexanone	ND	22	7.8	ug/kg	
98-82-8	Isopropylbenzene	ND	4.4	1.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.4	0.89	ug/kg	
74-83-9	Methyl Bromide	ND	4.4	2.3	ug/kg	
74-87-3	Methyl Chloride	ND	4.4	2.1	ug/kg	
74-95-3	Methylene Bromide	ND	4.4	1.6	ug/kg	
75-09-2	Methylene Chloride	ND	8.9	3.6	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	22	9.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.4	0.99	ug/kg	
91-20-3	Naphthalene	ND	4.4	1.8	ug/kg	
103-65-1	n-Propylbenzene	ND	4.4	1.1	ug/kg	
100-42-5	Styrene	ND	4.4	0.89	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.4	1.2	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	44	12	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.4	0.99	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.4	2.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.4	1.2	ug/kg	
108-88-3	Toluene	ND	4.4	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.4	1.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.4	1.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.4	0.89	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.4	1.6	ug/kg	
79-01-6	Trichloroethylene	ND	4.4	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.4	1.7	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.4	1.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.4	0.89	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.4	0.89	ug/kg	
75-01-4	Vinyl Chloride	ND	4.4	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	13	2.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%		75-124%
17060-07-0	1,2-Dichloroethane-D4	118%		72-135%

ND = Not detected MDL = Method Detection Limit
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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-1	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	94%		75-126%
460-00-4	4-Bromofluorobenzene	98%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-1	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X048970.D	1	09/12/16	AFL	09/09/16	F:OP61812	F:SX2120
Run #2							

	Initial Weight	Final Volume
Run #1	29.9 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	840	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	24	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	840	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	21	ug/kg	
100-02-7	4-Nitrophenol	ND	840	130	ug/kg	
87-86-5	Pentachlorophenol	ND	840	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine ^b	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	20	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	20	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-1	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	66%		40-102%
4165-62-2	Phenol-d5	69%		41-100%
118-79-6	2,4,6-Tribromophenol	47%		42-108%
4165-60-0	Nitrobenzene-d5	64%		40-105%
321-60-8	2-Fluorobiphenyl	60%		43-107%
1718-51-0	Terphenyl-d14	61%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated ICV outside control limits.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-1	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094887.D	4	09/12/16	AFL	09/10/16	F:OP61814	F:SW4252
Run #2							

	Initial Weight	Final Volume
Run #1	14.7 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	270	110	ug/kg	
208-96-8	Acenaphthylene	ND	270	110	ug/kg	
120-12-7	Anthracene	ND	270	68	ug/kg	
56-55-3	Benzo(a)anthracene	ND	54	14	ug/kg	
50-32-8	Benzo(a)pyrene	29.7	54	14	ug/kg	J
205-99-2	Benzo(b)fluoranthene	41.6	54	14	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	31.6	54	14	ug/kg	J
207-08-9	Benzo(k)fluoranthene	20.3	54	14	ug/kg	J
218-01-9	Chrysene	55.3	54	14	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17.6	54	14	ug/kg	J
206-44-0	Fluoranthene	ND	270	68	ug/kg	
86-73-7	Fluorene	ND	270	110	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	54	14	ug/kg	
90-12-0	1-Methylnaphthalene	168	270	110	ug/kg	J
91-57-6	2-Methylnaphthalene	178	270	110	ug/kg	J
91-20-3	Naphthalene	ND	270	110	ug/kg	
85-01-8	Phenanthrene	ND	270	68	ug/kg	
129-00-0	Pyrene	ND	270	68	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		40-105%
321-60-8	2-Fluorobiphenyl	79%		43-107%
1718-51-0	Terphenyl-d14	75%		45-119%

(a) Dilution required due to matrix interference; extract was viscous. Analysis performed at SGS Accutest, Orlando FL.

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 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E1-1	
Lab Sample ID:	C47015-1	Date Sampled: 09/06/16
Matrix:	SO - Soil	Date Received: 09/08/16
Method:	SW846 8015C	Percent Solids: n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075741.D	1	09/10/16	AFL	n/a	n/a	F:GUV4033
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.67 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.4	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		56-149%
98-08-8	aaa-Trifluorotoluene	101%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-1	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379320.D	20	09/13/16	AFL	09/10/16	F:OP61815	F:GTT1860
Run #2							

	Initial Weight	Final Volume
Run #1	14.8 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	34	10	ug/kg	
319-84-6	alpha-BHC	ND	34	10	ug/kg	
319-85-7	beta-BHC	ND	34	10	ug/kg	
319-86-8	delta-BHC	ND	34	9.9	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	34	10	ug/kg	
12789-03-6	Chlordane	ND	340	140	ug/kg	
60-57-1	Dieldrin	ND	34	13	ug/kg	
72-54-8	4,4'-DDD	ND	68	12	ug/kg	
72-55-9	4,4'-DDE	ND	68	11	ug/kg	
50-29-3	4,4'-DDT	ND	68	13	ug/kg	
72-20-8	Endrin	ND	68	13	ug/kg	
1031-07-8	Endosulfan sulfate	ND	68	13	ug/kg	
7421-93-4	Endrin aldehyde	ND	68	13	ug/kg	
959-98-8	Endosulfan-I	ND	34	9.9	ug/kg	
33213-65-9	Endosulfan-II	ND	34	13	ug/kg	
76-44-8	Heptachlor	ND	34	11	ug/kg	
1024-57-3	Heptachlor epoxide	ND	34	12	ug/kg	
72-43-5	Methoxychlor	ND	68	17	ug/kg	
8001-35-2	Toxaphene	ND	1700	680	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	0% ^b		50-122%
2051-24-3	Decachlorobiphenyl	0% ^b		50-133%

(a) Dilution required due to matrix interference; extract was viscous. Analysis performed at SGS Accutest, Orlando FL.

(b) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-1	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138353.D	4	09/13/16	AFL	09/10/16	F:OP61816	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	14.8 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	68	27	ug/kg	
11104-28-2	Aroclor 1221	ND	68	34	ug/kg	
11141-16-5	Aroclor 1232	ND	68	34	ug/kg	
53469-21-9	Aroclor 1242	ND	68	27	ug/kg	
12672-29-6	Aroclor 1248	ND	68	27	ug/kg	
11097-69-1	Aroclor 1254	ND	68	32	ug/kg	
11096-82-5	Aroclor 1260	ND	68	27	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	71%		44-126%
2051-24-3	Decachlorobiphenyl	86%		41-145%

(a) Dilution required due to matrix interference. Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E1-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-1	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002702.D	40	09/15/16	AFL	09/09/16	F:OP61813	F:GJR99
Run #2							

	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	120	190	97	mg/kg	J
	TPH (> C28-C40)	841	190	97	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% ^b		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-1	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 5.0	5.0	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Arsenic ^a	2.5	2.5	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Barium ^a	344	50	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Beryllium ^a	< 1.3	1.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cadmium ^a	< 1.0	1.0	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Chromium ^a	32.9	2.5	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cobalt ^a	< 13	13	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Copper ^a	25.4	6.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Lead ^a	7.4	5.0	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Mercury ^b	0.087	0.040	mg/kg	1	09/12/16	09/12/16	AFL SW846 7471B ¹	SW846 7471B ⁴
Molybdenum ^a	< 13	13	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Nickel ^a	36.7	10	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Selenium ^a	< 5.0	5.0	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Silver ^a	< 2.5	2.5	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Thallium ^a	< 2.5	2.5	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Vanadium ^a	37.2	13	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Zinc ^a	44.7	5.0	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: F:MA13398

(2) Instrument QC Batch: F:MA13399

(3) Prep QC Batch: F:MP30813

(4) Prep QC Batch: F:MP30816

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E1-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-2	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	F0079454.D	1	09/09/16	AFL	n/a	n/a	F:VF2730
Run #2							

	Initial Weight	Final Volume
Run #1	4.60 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	54	11	ug/kg	
71-43-2	Benzene	ND	5.4	1.4	ug/kg	
108-86-1	Bromobenzene	ND	5.4	1.3	ug/kg	
74-97-5	Bromochloromethane	ND	5.4	1.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.4	1.1	ug/kg	
75-25-2	Bromoform	ND	5.4	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	27	9.9	ug/kg	
104-51-8	n-Butylbenzene	ND	5.4	1.1	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.4	1.1	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.4	1.1	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.4	1.9	ug/kg	
108-90-7	Chlorobenzene	ND	5.4	1.1	ug/kg	
75-00-3	Chloroethane	ND	5.4	2.2	ug/kg	
67-66-3	Chloroform	ND	5.4	1.3	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.4	1.1	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.4	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.4	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.4	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.4	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.4	2.7	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.4	1.1	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.4	1.1	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.4	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.4	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.4	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.4	1.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.4	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.4	1.7	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.4	1.7	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.4	1.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.4	1.1	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.4	1.4	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-2	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	5.4	2.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.4	1.1	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	5.4	1.3	ug/kg	
100-41-4	Ethylbenzene	ND	5.4	1.2	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	5.4	1.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.4	2.4	ug/kg	
591-78-6	2-Hexanone	ND	27	9.5	ug/kg	
98-82-8	Isopropylbenzene	ND	5.4	1.5	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.4	1.1	ug/kg	
74-83-9	Methyl Bromide	ND	5.4	2.8	ug/kg	
74-87-3	Methyl Chloride	ND	5.4	2.6	ug/kg	
74-95-3	Methylene Bromide	ND	5.4	2.0	ug/kg	
75-09-2	Methylene Chloride	ND	11	4.3	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	27	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.4	1.2	ug/kg	
91-20-3	Naphthalene	ND	5.4	2.2	ug/kg	
103-65-1	n-Propylbenzene	ND	5.4	1.3	ug/kg	
100-42-5	Styrene	ND	5.4	1.1	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.4	1.5	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	54	15	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.4	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.4	2.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.4	1.4	ug/kg	
108-88-3	Toluene	ND	5.4	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	2.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	1.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.4	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.4	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.4	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.4	2.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.4	1.8	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.4	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.4	1.1	ug/kg	
75-01-4	Vinyl Chloride	ND	5.4	1.8	ug/kg	
1330-20-7	Xylene (total)	ND	16	3.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		75-124%
17060-07-0	1,2-Dichloroethane-D4	120%		72-135%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-2	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	93%		75-126%
460-00-4	4-Bromofluorobenzene	99%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-2	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X048971.D	1	09/12/16	AFL	09/09/16	F:OP61812	F:SX2120
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	66	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	20	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine ^b	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	19	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-2	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	27	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	70%		40-102%
4165-62-2	Phenol-d5	75%		41-100%
118-79-6	2,4,6-Tribromophenol	69%		42-108%
4165-60-0	Nitrobenzene-d5	67%		40-105%
321-60-8	2-Fluorobiphenyl	66%		43-107%
1718-51-0	Terphenyl-d14	84%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated ICV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-2	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094888.D	1	09/12/16	AFL	09/10/16	F:OP61814	F:SW4252
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	65	26	ug/kg	
208-96-8	Acenaphthylene	ND	65	26	ug/kg	
120-12-7	Anthracene	ND	65	16	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.2	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.2	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.2	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.2	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.2	ug/kg	
218-01-9	Chrysene	ND	13	3.2	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.2	ug/kg	
206-44-0	Fluoranthene	ND	65	16	ug/kg	
86-73-7	Fluorene	ND	65	26	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.2	ug/kg	
90-12-0	1-Methylnaphthalene	ND	65	26	ug/kg	
91-57-6	2-Methylnaphthalene	ND	65	26	ug/kg	
91-20-3	Naphthalene	ND	65	26	ug/kg	
85-01-8	Phenanthrene	ND	65	16	ug/kg	
129-00-0	Pyrene	ND	65	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		40-105%
321-60-8	2-Fluorobiphenyl	82%		43-107%
1718-51-0	Terphenyl-d14	92%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E1-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-2	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075742.D	1	09/10/16	AFL	n/a	n/a	F:GUV4033
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.96 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%		56-149%
98-08-8	aaa-Trifluorotoluene	100%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-2	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379281.D	1	09/12/16	AFL	09/10/16	F:OP61815	F:GTT1859
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.6	0.50	ug/kg	
319-84-6	alpha-BHC	ND	1.6	0.50	ug/kg	
319-85-7	beta-BHC	ND	1.6	0.50	ug/kg	
319-86-8	delta-BHC	ND	1.6	0.48	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.6	0.50	ug/kg	
12789-03-6	Chlordane	ND	16	6.5	ug/kg	
60-57-1	Dieldrin	ND	1.6	0.61	ug/kg	
72-54-8	4,4' -DDD	ND	3.3	0.56	ug/kg	
72-55-9	4,4' -DDE	ND	3.3	0.53	ug/kg	
50-29-3	4,4' -DDT	ND	3.3	0.64	ug/kg	
72-20-8	Endrin	ND	3.3	0.61	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.61	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	0.61	ug/kg	
959-98-8	Endosulfan-I	ND	1.6	0.48	ug/kg	
33213-65-9	Endosulfan-II	ND	1.6	0.60	ug/kg	
76-44-8	Heptachlor	ND	1.6	0.56	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.6	0.57	ug/kg	
72-43-5	Methoxychlor	ND	3.3	0.84	ug/kg	
8001-35-2	Toxaphene	ND	82	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	135% ^b		50-122%
2051-24-3	Decachlorobiphenyl	77%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Outside control limits. However, Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-2	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138354.D	1	09/13/16	AFL	09/10/16	F:OP61816	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	16	6.5	ug/kg	
11104-28-2	Aroclor 1221	ND	16	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	16	8.2	ug/kg	
53469-21-9	Aroclor 1242	ND	16	6.5	ug/kg	
12672-29-6	Aroclor 1248	ND	16	6.5	ug/kg	
11097-69-1	Aroclor 1254	ND	16	7.8	ug/kg	
11096-82-5	Aroclor 1260	ND	16	6.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		44-126%
2051-24-3	Decachlorobiphenyl	96%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E1-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-2	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002584.D	1	09/12/16	AFL	09/09/16	F:OP61813	F:GJR96
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	4.9	2.4	mg/kg	
	TPH (> C28-C40)	ND	4.9	2.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-2	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 4.7	4.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Arsenic ^a	3.5	2.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Barium ^a	174	47	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Beryllium ^a	< 1.2	1.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cadmium ^a	< 0.94	0.94	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Chromium ^a	84.9	2.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cobalt ^a	19.7	12	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Copper ^a	38.1	5.9	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Lead ^a	9.1	4.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Mercury ^b	0.045	0.037	mg/kg	1	09/12/16	09/12/16	AFL SW846 7471B ¹	SW846 7471B ⁴
Molybdenum ^a	< 12	12	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Nickel ^a	105	9.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Selenium ^a	< 4.7	4.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Silver ^a	< 2.4	2.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Thallium ^a	< 2.4	2.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Vanadium ^a	64.1	12	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Zinc ^a	58.3	4.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: F:MA13398

(2) Instrument QC Batch: F:MA13399

(3) Prep QC Batch: F:MP30813

(4) Prep QC Batch: F:MP30816

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E1-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-3	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	F0079455.D	1	09/09/16	AFL	n/a	n/a	F:VF2730
Run #2							

	Initial Weight	Final Volume
Run #1	5.70 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	44	8.9	ug/kg	
71-43-2	Benzene	ND	4.4	1.1	ug/kg	
108-86-1	Bromobenzene	ND	4.4	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	4.4	0.97	ug/kg	
75-27-4	Bromodichloromethane	ND	4.4	0.88	ug/kg	
75-25-2	Bromoform	ND	4.4	0.88	ug/kg	
78-93-3	2-Butanone (MEK)	ND	22	8.0	ug/kg	
104-51-8	n-Butylbenzene	ND	4.4	0.88	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.4	0.88	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.4	0.88	ug/kg	
56-23-5	Carbon Tetrachloride	ND	4.4	1.6	ug/kg	
108-90-7	Chlorobenzene	ND	4.4	0.88	ug/kg	
75-00-3	Chloroethane	ND	4.4	1.8	ug/kg	
67-66-3	Chloroform	ND	4.4	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.4	0.88	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.4	0.88	ug/kg	
124-48-1	Dibromochloromethane	ND	4.4	0.88	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.4	1.9	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.4	0.88	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.4	2.2	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.4	0.88	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.4	0.88	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.4	0.89	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.4	1.5	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.4	0.88	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.4	0.88	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.4	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.4	1.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.4	1.4	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.4	0.88	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.4	0.88	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.4	1.1	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-3	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	4.4	1.7	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.4	0.88	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	4.4	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	4.4	0.96	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	4.4	1.1	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.4	1.9	ug/kg	
591-78-6	2-Hexanone	ND	22	7.7	ug/kg	
98-82-8	Isopropylbenzene	ND	4.4	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.4	0.88	ug/kg	
74-83-9	Methyl Bromide	ND	4.4	2.3	ug/kg	
74-87-3	Methyl Chloride	ND	4.4	2.1	ug/kg	
74-95-3	Methylene Bromide	ND	4.4	1.6	ug/kg	
75-09-2	Methylene Chloride	ND	8.8	3.5	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	22	9.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.4	0.97	ug/kg	
91-20-3	Naphthalene	ND	4.4	1.8	ug/kg	
103-65-1	n-Propylbenzene	ND	4.4	1.1	ug/kg	
100-42-5	Styrene	ND	4.4	0.88	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.4	1.2	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	44	12	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.4	0.98	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.4	1.9	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.4	1.1	ug/kg	
108-88-3	Toluene	ND	4.4	0.99	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.4	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.4	1.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.4	0.88	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.4	1.6	ug/kg	
79-01-6	Trichloroethylene	ND	4.4	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.4	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.4	1.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.4	0.88	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.4	0.88	ug/kg	
75-01-4	Vinyl Chloride	ND	4.4	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	13	2.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		75-124%
17060-07-0	1,2-Dichloroethane-D4	123%		72-135%

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-3	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	91%		75-126%
460-00-4	4-Bromofluorobenzene	98%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-3	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X048972.D	1	09/12/16	AFL	09/09/16	F:OP61812	F:SX2120
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	66	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	20	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine ^b	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	19	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-3	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	27	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%		40-102%
4165-62-2	Phenol-d5	61%		41-100%
118-79-6	2,4,6-Tribromophenol	54%		42-108%
4165-60-0	Nitrobenzene-d5	54%		40-105%
321-60-8	2-Fluorobiphenyl	55%		43-107%
1718-51-0	Terphenyl-d14	65%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated ICV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-3	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094889.D	1	09/12/16	AFL	09/10/16	F:OP61814	F:SW4252
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	67	27	ug/kg	
208-96-8	Acenaphthylene	ND	67	27	ug/kg	
120-12-7	Anthracene	ND	67	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.3	ug/kg	
218-01-9	Chrysene	ND	13	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.3	ug/kg	
206-44-0	Fluoranthene	ND	67	17	ug/kg	
86-73-7	Fluorene	ND	67	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.3	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	27	ug/kg	
91-20-3	Naphthalene	ND	67	27	ug/kg	
85-01-8	Phenanthrene	ND	67	17	ug/kg	
129-00-0	Pyrene	ND	67	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		40-105%
321-60-8	2-Fluorobiphenyl	87%		43-107%
1718-51-0	Terphenyl-d14	89%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-3	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075743.D	1	09/10/16	AFL	n/a	n/a	F:GUV4033
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.26 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	4.8	2.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%		56-149%
98-08-8	aaa-Trifluorotoluene	100%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-3	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379282.D	1	09/12/16	AFL	09/10/16	F:OP61815	F:GTT1859
Run #2							

	Initial Weight	Final Volume
Run #1	14.8 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.7	0.51	ug/kg	
319-84-6	alpha-BHC	ND	1.7	0.52	ug/kg	
319-85-7	beta-BHC	ND	1.7	0.52	ug/kg	
319-86-8	delta-BHC	ND	1.7	0.49	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.7	0.52	ug/kg	
12789-03-6	Chlordane	ND	17	6.8	ug/kg	
60-57-1	Dieldrin	ND	1.7	0.64	ug/kg	
72-54-8	4,4' -DDD	ND	3.4	0.58	ug/kg	
72-55-9	4,4' -DDE	ND	3.4	0.54	ug/kg	
50-29-3	4,4' -DDT	ND	3.4	0.66	ug/kg	
72-20-8	Endrin	ND	3.4	0.63	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.4	0.63	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.4	0.63	ug/kg	
959-98-8	Endosulfan-I	ND	1.7	0.49	ug/kg	
33213-65-9	Endosulfan-II	ND	1.7	0.63	ug/kg	
76-44-8	Heptachlor	ND	1.7	0.57	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.7	0.59	ug/kg	
72-43-5	Methoxychlor	ND	3.4	0.87	ug/kg	
8001-35-2	Toxaphene	ND	84	34	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	126% ^b		50-122%
2051-24-3	Decachlorobiphenyl	77%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Outside control limits. However, Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-3	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138355.D	1	09/13/16	AFL	09/10/16	F:OP61816	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	14.8 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.8	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.6	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.4	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.8	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.8	ug/kg	
11097-69-1	Aroclor 1254	ND	17	8.1	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		44-126%
2051-24-3	Decachlorobiphenyl	87%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E1-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-3	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002585.D	1	09/12/16	AFL	09/09/16	F:OP61813	F:GJR96
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	5.0	2.5	mg/kg	
	TPH (> C28-C40)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-3	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 4.8	4.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Arsenic ^a	< 2.4	2.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Barium ^a	76.4	48	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Beryllium ^a	< 1.2	1.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cadmium ^a	< 0.96	0.96	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Chromium ^a	54.7	2.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cobalt ^a	< 12	12	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Copper ^a	23.3	6.0	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Lead ^a	< 4.8	4.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Mercury ^b	0.063	0.040	mg/kg	1	09/12/16	09/12/16	AFL SW846 7471B ¹	SW846 7471B ⁴
Molybdenum ^a	< 12	12	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Nickel ^a	48.7	9.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Selenium ^a	< 4.8	4.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Silver ^a	< 2.4	2.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Thallium ^a	< 2.4	2.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Vanadium ^a	59.5	12	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Zinc ^a	35.2	4.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: F:MA13398

(2) Instrument QC Batch: F:MA13399

(3) Prep QC Batch: F:MP30813

(4) Prep QC Batch: F:MP30816

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E1-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-4	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	F0079456.D	1	09/09/16	AFL	n/a	n/a	F:VF2730
Run #2							

	Initial Weight	Final Volume
Run #1	4.75 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	53	11	ug/kg	
71-43-2	Benzene	ND	5.3	1.3	ug/kg	
108-86-1	Bromobenzene	ND	5.3	1.3	ug/kg	
74-97-5	Bromochloromethane	ND	5.3	1.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.3	1.1	ug/kg	
75-25-2	Bromoform	ND	5.3	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	26	9.6	ug/kg	
104-51-8	n-Butylbenzene	ND	5.3	1.1	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.3	1.1	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.3	1.1	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.3	1.9	ug/kg	
108-90-7	Chlorobenzene	ND	5.3	1.1	ug/kg	
75-00-3	Chloroethane	ND	5.3	2.1	ug/kg	
67-66-3	Chloroform	ND	5.3	1.3	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.3	1.1	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.3	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.3	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.3	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.3	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.3	2.6	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.3	1.1	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.3	1.1	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.3	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.3	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.3	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.3	1.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.3	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.3	1.6	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.3	1.7	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.3	1.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.3	1.1	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.3	1.4	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-4	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	1.1	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	5.3	1.3	ug/kg	
100-41-4	Ethylbenzene	ND	5.3	1.1	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	5.3	1.3	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.3	2.3	ug/kg	
591-78-6	2-Hexanone	ND	26	9.2	ug/kg	
98-82-8	Isopropylbenzene	ND	5.3	1.5	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.3	1.1	ug/kg	
74-83-9	Methyl Bromide	ND	5.3	2.7	ug/kg	
74-87-3	Methyl Chloride	ND	5.3	2.5	ug/kg	
74-95-3	Methylene Bromide	ND	5.3	1.9	ug/kg	
75-09-2	Methylene Chloride	ND	11	4.2	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	26	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.3	1.2	ug/kg	
91-20-3	Naphthalene	ND	5.3	2.1	ug/kg	
103-65-1	n-Propylbenzene	ND	5.3	1.3	ug/kg	
100-42-5	Styrene	ND	5.3	1.1	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.3	1.4	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	53	14	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.3	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	2.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.3	1.4	ug/kg	
108-88-3	Toluene	ND	5.3	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.3	2.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.3	1.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.3	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.3	1.9	ug/kg	
79-01-6	Trichloroethylene	ND	5.3	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.3	2.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.3	1.7	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.3	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.3	1.1	ug/kg	
75-01-4	Vinyl Chloride	ND	5.3	1.8	ug/kg	
1330-20-7	Xylene (total)	ND	16	3.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		75-124%
17060-07-0	1,2-Dichloroethane-D4	119%		72-135%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-4	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	92%		75-126%
460-00-4	4-Bromofluorobenzene	98%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-4	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X048973.D	1	09/12/16	AFL	09/09/16	F:OP61812	F:SX2120
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	820	160	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	160	25	ug/kg	
95-57-8	2-Chlorophenol	ND	160	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	820	160	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	66	ug/kg	
95-48-7	2-Methylphenol	ND	160	18	ug/kg	
	3&4-Methylphenol	ND	160	39	ug/kg	
88-75-5	2-Nitrophenol	ND	160	20	ug/kg	
100-02-7	4-Nitrophenol	ND	820	130	ug/kg	
87-86-5	Pentachlorophenol	ND	820	130	ug/kg	
108-95-2	Phenol	ND	160	19	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	20	ug/kg	
62-53-3	Aniline	ND	160	33	ug/kg	
92-87-5	Benzidine ^b	ND	1600	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	160	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	160	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	160	33	ug/kg	
86-74-8	Carbazole	ND	160	19	ug/kg	
106-47-8	4-Chloroaniline	ND	160	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	160	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	160	29	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	160	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	160	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	160	21	ug/kg	
132-64-9	Dibenzofuran	ND	160	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	160	16	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	160	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	160	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	160	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-4	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	160	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	160	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	160	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	160	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	160	27	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	160	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	160	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	160	33	ug/kg	
67-72-1	Hexachloroethane	ND	160	19	ug/kg	
78-59-1	Isophorone	ND	160	17	ug/kg	
88-74-4	2-Nitroaniline	ND	160	28	ug/kg	
99-09-2	3-Nitroaniline	ND	160	28	ug/kg	
100-01-6	4-Nitroaniline	ND	160	28	ug/kg	
98-95-3	Nitrobenzene	ND	160	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	160	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	160	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	31	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	160	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	80%		40-102%
4165-62-2	Phenol-d5	89%		41-100%
118-79-6	2,4,6-Tribromophenol	73%		42-108%
4165-60-0	Nitrobenzene-d5	78%		40-105%
321-60-8	2-Fluorobiphenyl	77%		43-107%
1718-51-0	Terphenyl-d14	81%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated ICV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-4	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094892.D	1	09/12/16	AFL	09/10/16	F:OP61814	F:SW4252
Run #2							

	Initial Weight	Final Volume
Run #1	14.9 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	67	27	ug/kg	
208-96-8	Acenaphthylene	ND	67	27	ug/kg	
120-12-7	Anthracene	ND	67	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.4	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.4	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.4	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.4	ug/kg	
218-01-9	Chrysene	ND	13	3.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.4	ug/kg	
206-44-0	Fluoranthene	ND	67	17	ug/kg	
86-73-7	Fluorene	ND	67	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.4	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	27	ug/kg	
91-20-3	Naphthalene	ND	67	27	ug/kg	
85-01-8	Phenanthrene	ND	67	17	ug/kg	
129-00-0	Pyrene	ND	67	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	79%		40-105%
321-60-8	2-Fluorobiphenyl	82%		43-107%
1718-51-0	Terphenyl-d14	87%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E1-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-4	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075744.D	1	09/10/16	AFL	n/a	n/a	F:GUV4033
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.70 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	4.4	2.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%		56-149%
98-08-8	aaa-Trifluorotoluene	100%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-4	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379327.D	1	09/13/16	AFL	09/10/16	F:OP61815	F:GTT1860
Run #2 ^a	TT379321.D	10	09/13/16	AFL	09/10/16	F:OP61815	F:GTT1860

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2	15.2 g	5.0 ml

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.6	0.50	ug/kg	
319-84-6	alpha-BHC	ND	1.6	0.51	ug/kg	
319-85-7	beta-BHC	ND	1.6	0.50	ug/kg	
319-86-8	delta-BHC	ND	1.6	0.48	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.6	0.50	ug/kg	
12789-03-6	Chlordane	ND	16	6.6	ug/kg	
60-57-1	Dieldrin	ND	1.6	0.62	ug/kg	
72-54-8	4,4' -DDD	ND	3.3	0.57	ug/kg	
72-55-9	4,4' -DDE	ND	3.3	0.53	ug/kg	
50-29-3	4,4' -DDT	ND	3.3	0.64	ug/kg	
72-20-8	Endrin	ND	3.3	0.61	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.62	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	0.61	ug/kg	
959-98-8	Endosulfan-I	ND	1.6	0.48	ug/kg	
33213-65-9	Endosulfan-II	ND	1.6	0.61	ug/kg	
76-44-8	Heptachlor	ND	1.6	0.56	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.6	0.58	ug/kg	
72-43-5	Methoxychlor	ND ^b	33	8.5	ug/kg	
8001-35-2	Toxaphene	ND	82	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	113%	116%	50-122%
2051-24-3	Decachlorobiphenyl	72%	71%	50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-4	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138356.D	1	09/13/16	AFL	09/10/16	F:OP61816	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	16	6.6	ug/kg	
11104-28-2	Aroclor 1221	ND	16	8.4	ug/kg	
11141-16-5	Aroclor 1232	ND	16	8.2	ug/kg	
53469-21-9	Aroclor 1242	ND	16	6.6	ug/kg	
12672-29-6	Aroclor 1248	ND	16	6.6	ug/kg	
11097-69-1	Aroclor 1254	ND	16	7.9	ug/kg	
11096-82-5	Aroclor 1260	ND	16	6.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		44-126%
2051-24-3	Decachlorobiphenyl	88%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E1-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-4	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002586.D	1	09/12/16	AFL	09/09/16	F:OP61813	F:GJR96
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	5.0	2.5	mg/kg	
	TPH (> C28-C40)	2.78	5.0	2.5	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-4	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 3.7	3.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Arsenic ^a	3.0	1.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Barium ^a	96.7	37	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Beryllium ^a	< 0.92	0.92	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cadmium ^a	< 0.74	0.74	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Chromium ^a	89.6	1.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cobalt ^a	19.6	9.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Copper ^a	30.2	4.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Lead ^a	7.3	3.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Mercury ^b	0.043	0.038	mg/kg	1	09/12/16	09/12/16	AFL SW846 7471B ¹	SW846 7471B ⁴
Molybdenum ^a	< 9.2	9.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Nickel ^a	87.6	7.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Selenium ^a	< 3.7	3.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Silver ^a	< 1.8	1.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Thallium ^a	< 1.8	1.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Vanadium ^a	69.0	9.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Zinc ^a	48.5	3.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: F:MA13398

(2) Instrument QC Batch: F:MA13399

(3) Prep QC Batch: F:MP30813

(4) Prep QC Batch: F:MP30816

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID: E1-8
Lab Sample ID: C47015-5
Matrix: SO - Soil
Method: SW846 8260B
Project: Vallco Mall, Wolfe Rd, Cupertino CA

Date Sampled: 09/06/16
Date Received: 09/08/16
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	F0079457.D	1	09/09/16	AFL	n/a	n/a	F:VF2730
Run #2							

	Initial Weight	Final Volume
Run #1	4.61 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	54	11	ug/kg	
71-43-2	Benzene	ND	5.4	1.4	ug/kg	
108-86-1	Bromobenzene	ND	5.4	1.3	ug/kg	
74-97-5	Bromochloromethane	ND	5.4	1.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.4	1.1	ug/kg	
75-25-2	Bromoform	ND	5.4	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	27	9.8	ug/kg	
104-51-8	n-Butylbenzene	ND	5.4	1.1	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.4	1.1	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.4	1.1	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.4	1.9	ug/kg	
108-90-7	Chlorobenzene	ND	5.4	1.1	ug/kg	
75-00-3	Chloroethane	ND	5.4	2.2	ug/kg	
67-66-3	Chloroform	ND	5.4	1.3	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.4	1.1	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.4	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.4	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.4	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.4	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.4	2.7	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.4	1.1	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.4	1.1	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.4	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.4	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.4	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.4	1.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.4	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.4	1.6	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.4	1.7	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.4	1.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.4	1.1	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.4	1.4	ug/kg	

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 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-8	Date Sampled:	09/06/16
Lab Sample ID:	C47015-5	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	5.4	2.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.4	1.1	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	5.4	1.3	ug/kg	
100-41-4	Ethylbenzene	ND	5.4	1.2	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	5.4	1.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.4	2.4	ug/kg	
591-78-6	2-Hexanone	ND	27	9.5	ug/kg	
98-82-8	Isopropylbenzene	ND	5.4	1.5	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.4	1.1	ug/kg	
74-83-9	Methyl Bromide	ND	5.4	2.8	ug/kg	
74-87-3	Methyl Chloride	ND	5.4	2.6	ug/kg	
74-95-3	Methylene Bromide	ND	5.4	2.0	ug/kg	
75-09-2	Methylene Chloride	ND	11	4.3	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	27	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.4	1.2	ug/kg	
91-20-3	Naphthalene	ND	5.4	2.2	ug/kg	
103-65-1	n-Propylbenzene	ND	5.4	1.3	ug/kg	
100-42-5	Styrene	ND	5.4	1.1	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.4	1.5	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	54	15	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.4	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.4	2.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.4	1.4	ug/kg	
108-88-3	Toluene	ND	5.4	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	2.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	1.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.4	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.4	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.4	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.4	2.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.4	1.8	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.4	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.4	1.1	ug/kg	
75-01-4	Vinyl Chloride	ND	5.4	1.8	ug/kg	
1330-20-7	Xylene (total)	ND	16	3.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		75-124%
17060-07-0	1,2-Dichloroethane-D4	120%		72-135%

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 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-8	Date Sampled:	09/06/16
Lab Sample ID:	C47015-5	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	92%		75-126%
460-00-4	4-Bromofluorobenzene	100%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-8	Date Sampled:	09/06/16
Lab Sample ID:	C47015-5	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X048976.D	1	09/12/16	AFL	09/09/16	F:OP61812	F:SX2120
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	820	160	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	160	25	ug/kg	
95-57-8	2-Chlorophenol	ND	160	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	820	160	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	66	ug/kg	
95-48-7	2-Methylphenol	ND	160	18	ug/kg	
	3&4-Methylphenol	ND	160	39	ug/kg	
88-75-5	2-Nitrophenol	ND	160	20	ug/kg	
100-02-7	4-Nitrophenol	ND	820	130	ug/kg	
87-86-5	Pentachlorophenol	ND	820	130	ug/kg	
108-95-2	Phenol	ND	160	19	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	20	ug/kg	
62-53-3	Aniline	ND	160	33	ug/kg	
92-87-5	Benzidine ^b	ND	1600	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	160	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	160	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	160	33	ug/kg	
86-74-8	Carbazole	ND	160	19	ug/kg	
106-47-8	4-Chloroaniline	ND	160	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	160	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	160	29	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	160	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	160	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	160	21	ug/kg	
132-64-9	Dibenzofuran	ND	160	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	160	16	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	160	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	160	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	160	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-8	Date Sampled:	09/06/16
Lab Sample ID:	C47015-5	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	160	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	160	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	160	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	160	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	160	27	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	160	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	160	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	160	33	ug/kg	
67-72-1	Hexachloroethane	ND	160	19	ug/kg	
78-59-1	Isophorone	ND	160	17	ug/kg	
88-74-4	2-Nitroaniline	ND	160	28	ug/kg	
99-09-2	3-Nitroaniline	ND	160	28	ug/kg	
100-01-6	4-Nitroaniline	ND	160	28	ug/kg	
98-95-3	Nitrobenzene	ND	160	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	160	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	160	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	31	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	160	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	70%		40-102%
4165-62-2	Phenol-d5	76%		41-100%
118-79-6	2,4,6-Tribromophenol	67%		42-108%
4165-60-0	Nitrobenzene-d5	67%		40-105%
321-60-8	2-Fluorobiphenyl	64%		43-107%
1718-51-0	Terphenyl-d14	80%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated ICV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-8	Date Sampled:	09/06/16
Lab Sample ID:	C47015-5	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094893.D	1	09/12/16	AFL	09/10/16	F:OP61814	F:SW4252
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	65	26	ug/kg	
208-96-8	Acenaphthylene	ND	65	26	ug/kg	
120-12-7	Anthracene	ND	65	16	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.2	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.2	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.2	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.2	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.2	ug/kg	
218-01-9	Chrysene	ND	13	3.2	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.2	ug/kg	
206-44-0	Fluoranthene	ND	65	16	ug/kg	
86-73-7	Fluorene	ND	65	26	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.2	ug/kg	
90-12-0	1-Methylnaphthalene	ND	65	26	ug/kg	
91-57-6	2-Methylnaphthalene	ND	65	26	ug/kg	
91-20-3	Naphthalene	ND	65	26	ug/kg	
85-01-8	Phenanthrene	ND	65	16	ug/kg	
129-00-0	Pyrene	ND	65	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		40-105%
321-60-8	2-Fluorobiphenyl	76%		43-107%
1718-51-0	Terphenyl-d14	80%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E1-8	Date Sampled:	09/06/16
Lab Sample ID:	C47015-5	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075745.D	1	09/10/16	AFL	n/a	n/a	F:GUV4033
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.99 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%		56-149%
98-08-8	aaa-Trifluorotoluene	100%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-8	Date Sampled:	09/06/16
Lab Sample ID:	C47015-5	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379284.D	1	09/13/16	AFL	09/10/16	F:OP61815	F:GTT1859
Run #2							

	Initial Weight	Final Volume
Run #1	14.9 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.7	0.51	ug/kg	
319-84-6	alpha-BHC	ND	1.7	0.52	ug/kg	
319-85-7	beta-BHC	ND	1.7	0.51	ug/kg	
319-86-8	delta-BHC	ND	1.7	0.49	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.7	0.51	ug/kg	
12789-03-6	Chlordane	ND	17	6.7	ug/kg	
60-57-1	Dieldrin	ND	1.7	0.63	ug/kg	
72-54-8	4,4' -DDD	ND	3.4	0.58	ug/kg	
72-55-9	4,4' -DDE	ND	3.4	0.54	ug/kg	
50-29-3	4,4' -DDT	ND	3.4	0.66	ug/kg	
72-20-8	Endrin	ND	3.4	0.62	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.4	0.63	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.4	0.62	ug/kg	
959-98-8	Endosulfan-I	ND	1.7	0.49	ug/kg	
33213-65-9	Endosulfan-II	ND	1.7	0.62	ug/kg	
76-44-8	Heptachlor	ND	1.7	0.57	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.7	0.59	ug/kg	
72-43-5	Methoxychlor	ND	3.4	0.86	ug/kg	
8001-35-2	Toxaphene	ND	84	34	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	110%		50-122%
2051-24-3	Decachlorobiphenyl	74%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
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 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-8	Date Sampled:	09/06/16
Lab Sample ID:	C47015-5	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138359.D	1	09/13/16	AFL	09/10/16	F:OP61816	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	14.9 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.6	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.4	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	8.0	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		44-126%
2051-24-3	Decachlorobiphenyl	78%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E1-8	Date Sampled:	09/06/16
Lab Sample ID:	C47015-5	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002590.D	1	09/13/16	AFL	09/09/16	F:OP61813	F:GJR96
Run #2							

	Initial Weight	Final Volume
Run #1	19.6 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	5.1	2.6	mg/kg	
	TPH (> C28-C40)	ND	5.1	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E1-8	Date Sampled:	09/06/16
Lab Sample ID:	C47015-5	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 3.7	3.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Arsenic ^a	3.6	1.9	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Barium ^a	90.9	37	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Beryllium ^a	< 0.93	0.93	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cadmium ^a	< 0.74	0.74	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Chromium ^a	27.8	1.9	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cobalt ^a	< 9.3	9.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Copper ^a	19.3	4.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Lead ^a	7.4	3.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Mercury ^b	0.45	0.078	mg/kg	2	09/12/16	09/12/16	AFL SW846 7471B ¹	SW846 7471B ⁴
Molybdenum ^a	< 9.3	9.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Nickel ^a	36.2	7.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Selenium ^a	< 3.7	3.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Silver ^a	< 1.9	1.9	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Thallium ^a	< 1.9	1.9	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Vanadium ^a	31.2	9.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Zinc ^a	47.5	3.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: F:MA13398

(2) Instrument QC Batch: F:MA13399

(3) Prep QC Batch: F:MP30813

(4) Prep QC Batch: F:MP30816

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E2-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-6	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0117981.D	1	09/09/16	AFL	n/a	n/a	F:VC4680
Run #2							

	Initial Weight	Final Volume
Run #1	5.40 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	46	9.4	ug/kg	
71-43-2	Benzene	ND	4.6	1.2	ug/kg	
108-86-1	Bromobenzene	ND	4.6	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	4.6	1.0	ug/kg	
75-27-4	Bromodichloromethane	ND	4.6	0.93	ug/kg	
75-25-2	Bromoform	ND	4.6	0.93	ug/kg	
78-93-3	2-Butanone (MEK)	ND	23	8.4	ug/kg	
104-51-8	n-Butylbenzene	ND	4.6	0.93	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.6	0.93	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.6	0.93	ug/kg	
56-23-5	Carbon Tetrachloride	ND	4.6	1.6	ug/kg	
108-90-7	Chlorobenzene	ND	4.6	0.93	ug/kg	
75-00-3	Chloroethane	ND	4.6	1.9	ug/kg	
67-66-3	Chloroform	ND	4.6	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.6	0.93	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.6	0.93	ug/kg	
124-48-1	Dibromochloromethane	ND	4.6	0.93	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.6	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.6	0.93	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.6	2.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.6	0.93	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.6	0.93	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.6	0.94	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.6	1.6	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.6	0.93	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.6	0.93	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.6	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.6	1.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.6	1.5	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.6	0.93	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.6	0.93	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.6	1.2	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-6	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	4.6	1.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.6	0.93	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	4.6	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	4.6	1.0	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	4.6	1.2	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.6	2.0	ug/kg	
591-78-6	2-Hexanone	ND	23	8.1	ug/kg	
98-82-8	Isopropylbenzene	ND	4.6	1.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.6	0.93	ug/kg	
74-83-9	Methyl Bromide	ND	4.6	2.4	ug/kg	
74-87-3	Methyl Chloride	ND	4.6	2.2	ug/kg	
74-95-3	Methylene Bromide	ND	4.6	1.7	ug/kg	
75-09-2	Methylene Chloride	ND	9.3	3.7	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	23	9.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.6	1.0	ug/kg	
91-20-3	Naphthalene	ND	4.6	1.9	ug/kg	
103-65-1	n-Propylbenzene	ND	4.6	1.1	ug/kg	
100-42-5	Styrene	ND	4.6	0.93	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.6	1.3	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	46	13	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.6	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.6	2.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.6	1.2	ug/kg	
108-88-3	Toluene	ND	4.6	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.6	1.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.6	1.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.6	0.93	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.6	1.7	ug/kg	
79-01-6	Trichloroethylene	ND	4.6	1.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.6	1.7	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.6	1.5	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.6	0.93	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.6	0.93	ug/kg	
75-01-4	Vinyl Chloride	ND	4.6	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	14	2.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		75-124%
17060-07-0	1,2-Dichloroethane-D4	117%		72-135%

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-6	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	93%		75-126%
460-00-4	4-Bromofluorobenzene	98%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-6	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X048977.D	1	09/12/16	AFL	09/09/16	F:OP61812	F:SX2120
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	21	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine ^b	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	19	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-6	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	38.8	330	33	ug/kg	J
118-74-1	Hexachlorobenzene	ND	170	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	68%		40-102%
4165-62-2	Phenol-d5	76%		41-100%
118-79-6	2,4,6-Tribromophenol	67%		42-108%
4165-60-0	Nitrobenzene-d5	68%		40-105%
321-60-8	2-Fluorobiphenyl	68%		43-107%
1718-51-0	Terphenyl-d14	84%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated ICV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-6	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094894.D	1	09/12/16	AFL	09/10/16	F:OP61814	F:SW4252
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	65	26	ug/kg	
208-96-8	Acenaphthylene	ND	65	26	ug/kg	
120-12-7	Anthracene	ND	65	16	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.3	ug/kg	
218-01-9	Chrysene	ND	13	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.3	ug/kg	
206-44-0	Fluoranthene	ND	65	16	ug/kg	
86-73-7	Fluorene	ND	65	26	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.3	ug/kg	
90-12-0	1-Methylnaphthalene	ND	65	26	ug/kg	
91-57-6	2-Methylnaphthalene	ND	65	26	ug/kg	
91-20-3	Naphthalene	ND	65	26	ug/kg	
85-01-8	Phenanthrene	ND	65	16	ug/kg	
129-00-0	Pyrene	ND	65	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	83%		40-105%
321-60-8	2-Fluorobiphenyl	78%		43-107%
1718-51-0	Terphenyl-d14	90%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-6	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075746.D	1	09/10/16	AFL	n/a	n/a	F:GUV4033
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.20 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	4.8	2.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%		56-149%
98-08-8	aaa-Trifluorotoluene	101%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-6	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379328.D	1	09/13/16	AFL	09/10/16	F:OP61815	F:GTT1860
Run #2 ^a	TT379322.D	10	09/13/16	AFL	09/10/16	F:OP61815	F:GTT1860

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2	15.1 g	5.0 ml

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.7	0.50	ug/kg	
319-84-6	alpha-BHC	ND	1.7	0.51	ug/kg	
319-85-7	beta-BHC	ND	1.7	0.51	ug/kg	
319-86-8	delta-BHC	ND	1.7	0.48	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.7	0.51	ug/kg	
12789-03-6	Chlordane	ND	17	6.6	ug/kg	
60-57-1	Dieldrin	ND	1.7	0.62	ug/kg	
72-54-8	4,4' -DDD	ND	3.3	0.57	ug/kg	
72-55-9	4,4' -DDE	ND	3.3	0.53	ug/kg	
50-29-3	4,4' -DDT	ND	3.3	0.65	ug/kg	
72-20-8	Endrin	ND	3.3	0.62	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.62	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	0.62	ug/kg	
959-98-8	Endosulfan-I	ND	1.7	0.48	ug/kg	
33213-65-9	Endosulfan-II	ND	1.7	0.61	ug/kg	
76-44-8	Heptachlor	ND	1.7	0.56	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.7	0.58	ug/kg	
72-43-5	Methoxychlor	ND ^b	33	8.5	ug/kg	
8001-35-2	Toxaphene	ND	83	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	121%	116%	50-122%
2051-24-3	Decachlorobiphenyl	70%	76%	50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: E2-1
Lab Sample ID: C47015-6
Matrix: SO - Soil
Method: SW846 8082A SW846 3546
Project: Vallco Mall, Wolfe Rd, Cupertino CA

Date Sampled: 09/06/16
Date Received: 09/08/16
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138360.D	1	09/13/16	AFL	09/10/16	F:OP61816	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.6	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.4	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.6	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.6	ug/kg	
11097-69-1	Aroclor 1254	ND	17	7.9	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		44-126%
2051-24-3	Decachlorobiphenyl	89%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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3

Client Sample ID:	E2-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-6	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002593.D	1	09/13/16	AFL	09/09/16	F:OP61813	F:GJR96
Run #2							

	Initial Weight	Final Volume
Run #1	19.8 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	2.86	5.1	2.5	mg/kg	J
	TPH (> C28-C40)	11.4	5.1	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-6	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 3.2	3.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Arsenic ^a	3.3	1.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Barium ^a	111	32	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Beryllium ^a	< 0.81	0.81	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cadmium ^a	< 0.65	0.65	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Chromium ^a	50.9	1.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cobalt ^a	13.0	8.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Copper ^a	27.1	4.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Lead ^a	7.7	3.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Mercury ^b	0.092	0.038	mg/kg	1	09/12/16	09/12/16	AFL SW846 7471B ¹	SW846 7471B ⁴
Molybdenum ^a	< 8.1	8.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Nickel ^a	69.1	6.5	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Selenium ^a	< 3.2	3.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Silver ^a	< 1.6	1.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Thallium ^a	< 1.6	1.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Vanadium ^a	36.5	8.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Zinc ^a	46.0	3.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: F:MA13398

(2) Instrument QC Batch: F:MA13399

(3) Prep QC Batch: F:MP30813

(4) Prep QC Batch: F:MP30816

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E2-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-7	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0117982.D	1	09/09/16	AFL	n/a	n/a	F:VC4680
Run #2							

	Initial Weight	Final Volume
Run #1	5.17 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	26.0	48	9.9	ug/kg	J
71-43-2	Benzene	ND	4.8	1.2	ug/kg	
108-86-1	Bromobenzene	ND	4.8	1.2	ug/kg	
74-97-5	Bromochloromethane	ND	4.8	1.1	ug/kg	
75-27-4	Bromodichloromethane	ND	4.8	0.97	ug/kg	
75-25-2	Bromoform	ND	4.8	0.97	ug/kg	
78-93-3	2-Butanone (MEK)	ND	24	8.8	ug/kg	
104-51-8	n-Butylbenzene	ND	4.8	0.97	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.8	0.97	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.8	0.97	ug/kg	
56-23-5	Carbon Tetrachloride	ND	4.8	1.7	ug/kg	
108-90-7	Chlorobenzene	ND	4.8	0.97	ug/kg	
75-00-3	Chloroethane	ND	4.8	1.9	ug/kg	
67-66-3	Chloroform	ND	4.8	1.2	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.8	0.97	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.8	0.97	ug/kg	
124-48-1	Dibromochloromethane	ND	4.8	0.97	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.8	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.8	0.97	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.8	2.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.97	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.97	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.99	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.8	1.6	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.8	0.97	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.8	0.97	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.8	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.8	1.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.8	1.5	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.8	0.97	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.8	0.97	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.8	1.2	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-7	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	4.8	1.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.8	0.97	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	4.8	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	4.8	1.1	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	4.8	1.2	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.8	2.1	ug/kg	
591-78-6	2-Hexanone	ND	24	8.4	ug/kg	
98-82-8	Isopropylbenzene	ND	4.8	1.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.8	0.97	ug/kg	
74-83-9	Methyl Bromide	ND	4.8	2.5	ug/kg	
74-87-3	Methyl Chloride	ND	4.8	2.3	ug/kg	
74-95-3	Methylene Bromide	ND	4.8	1.8	ug/kg	
75-09-2	Methylene Chloride	ND	9.7	3.9	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	24	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.8	1.1	ug/kg	
91-20-3	Naphthalene	ND	4.8	1.9	ug/kg	
103-65-1	n-Propylbenzene	ND	4.8	1.2	ug/kg	
100-42-5	Styrene	ND	4.8	0.97	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.8	1.3	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	48	13	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.8	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.8	2.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.8	1.3	ug/kg	
108-88-3	Toluene	ND	4.8	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.8	1.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	1.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.8	0.97	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.8	1.8	ug/kg	
79-01-6	Trichloroethylene	ND	4.8	1.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.8	1.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.8	1.6	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.8	0.97	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.8	0.97	ug/kg	
75-01-4	Vinyl Chloride	ND	4.8	1.6	ug/kg	
1330-20-7	Xylene (total)	ND	15	2.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		75-124%
17060-07-0	1,2-Dichloroethane-D4	105%		72-135%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-7	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	96%		75-126%
460-00-4	4-Bromofluorobenzene	98%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-7	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X048978.D	1	09/12/16	AFL	09/09/16	F:OP61812	F:SX2120
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	820	160	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	160	25	ug/kg	
95-57-8	2-Chlorophenol	ND	160	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	820	160	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	66	ug/kg	
95-48-7	2-Methylphenol	ND	160	18	ug/kg	
	3&4-Methylphenol	ND	160	39	ug/kg	
88-75-5	2-Nitrophenol	ND	160	20	ug/kg	
100-02-7	4-Nitrophenol	ND	820	130	ug/kg	
87-86-5	Pentachlorophenol	ND	820	130	ug/kg	
108-95-2	Phenol	ND	160	19	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	20	ug/kg	
62-53-3	Aniline	ND	160	33	ug/kg	
92-87-5	Benzidine ^b	ND	1600	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	160	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	160	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	160	33	ug/kg	
86-74-8	Carbazole	ND	160	19	ug/kg	
106-47-8	4-Chloroaniline	ND	160	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	160	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	160	29	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	160	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	160	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	160	21	ug/kg	
132-64-9	Dibenzofuran	ND	160	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	160	16	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	160	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	160	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	160	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-7	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	160	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	160	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	160	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	160	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	160	27	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	160	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	160	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	160	33	ug/kg	
67-72-1	Hexachloroethane	ND	160	19	ug/kg	
78-59-1	Isophorone	ND	160	17	ug/kg	
88-74-4	2-Nitroaniline	ND	160	28	ug/kg	
99-09-2	3-Nitroaniline	ND	160	28	ug/kg	
100-01-6	4-Nitroaniline	ND	160	28	ug/kg	
98-95-3	Nitrobenzene	ND	160	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	160	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	160	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	31	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	160	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	73%		40-102%
4165-62-2	Phenol-d5	79%		41-100%
118-79-6	2,4,6-Tribromophenol	72%		42-108%
4165-60-0	Nitrobenzene-d5	69%		40-105%
321-60-8	2-Fluorobiphenyl	67%		43-107%
1718-51-0	Terphenyl-d14	93%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated ICV outside control limits.

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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-7	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094895.D	1	09/12/16	AFL	09/10/16	F:OP61814	F:SW4252
Run #2							

	Initial Weight	Final Volume
Run #1	14.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	68	27	ug/kg	
208-96-8	Acenaphthylene	ND	68	27	ug/kg	
120-12-7	Anthracene	ND	68	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	14	3.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	14	3.4	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	14	3.4	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	14	3.4	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	14	3.4	ug/kg	
218-01-9	Chrysene	ND	14	3.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	14	3.4	ug/kg	
206-44-0	Fluoranthene	ND	68	17	ug/kg	
86-73-7	Fluorene	ND	68	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	14	3.4	ug/kg	
90-12-0	1-Methylnaphthalene	ND	68	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	68	27	ug/kg	
91-20-3	Naphthalene	ND	68	27	ug/kg	
85-01-8	Phenanthrene	ND	68	17	ug/kg	
129-00-0	Pyrene	ND	68	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	92%		40-105%
321-60-8	2-Fluorobiphenyl	83%		43-107%
1718-51-0	Terphenyl-d14	81%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E2-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-7	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075747.D	1	09/10/16	AFL	n/a	n/a	F:GUV4033
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.56 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	4.5	2.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%		56-149%
98-08-8	aaa-Trifluorotoluene	101%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-7	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379286.D	1	09/13/16	AFL	09/10/16	F:OP61815	F:GTT1859
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.6	0.50	ug/kg	
319-84-6	alpha-BHC	ND	1.6	0.51	ug/kg	
319-85-7	beta-BHC	ND	1.6	0.50	ug/kg	
319-86-8	delta-BHC	ND	1.6	0.48	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.6	0.50	ug/kg	
12789-03-6	Chlordane	ND	16	6.6	ug/kg	
60-57-1	Dieldrin	ND	1.6	0.62	ug/kg	
72-54-8	4,4' -DDD	ND	3.3	0.57	ug/kg	
72-55-9	4,4' -DDE	ND	3.3	0.53	ug/kg	
50-29-3	4,4' -DDT	ND	3.3	0.64	ug/kg	
72-20-8	Endrin	ND	3.3	0.61	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.62	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	0.61	ug/kg	
959-98-8	Endosulfan-I	ND	1.6	0.48	ug/kg	
33213-65-9	Endosulfan-II	ND	1.6	0.61	ug/kg	
76-44-8	Heptachlor	ND	1.6	0.56	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.6	0.58	ug/kg	
72-43-5	Methoxychlor	ND	3.3	0.85	ug/kg	
8001-35-2	Toxaphene	ND	82	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	122%		50-122%
2051-24-3	Decachlorobiphenyl	82%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-7	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138363.D	1	09/13/16	AFL	09/10/16	F:OP61816	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	16	6.6	ug/kg	
11104-28-2	Aroclor 1221	ND	16	8.4	ug/kg	
11141-16-5	Aroclor 1232	ND	16	8.2	ug/kg	
53469-21-9	Aroclor 1242	ND	16	6.6	ug/kg	
12672-29-6	Aroclor 1248	ND	16	6.6	ug/kg	
11097-69-1	Aroclor 1254	ND	16	7.9	ug/kg	
11096-82-5	Aroclor 1260	ND	16	6.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		44-126%
2051-24-3	Decachlorobiphenyl	90%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E2-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-7	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002594.D	1	09/13/16	AFL	09/09/16	F:OP61813	F:GJR96
Run #2							

	Initial Weight	Final Volume
Run #1	19.7 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	5.1	2.5	mg/kg	
	TPH (> C28-C40)	ND	5.1	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-7	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 3.4	3.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Arsenic ^a	3.1	1.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Barium ^a	218	34	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Beryllium ^a	< 0.86	0.86	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cadmium ^a	< 0.69	0.69	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Chromium ^a	74.4	1.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cobalt ^a	16.1	8.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Copper ^a	35.0	4.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Lead ^a	9.3	3.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Mercury ^b	< 0.040	0.040	mg/kg	1	09/12/16	09/12/16	AFL SW846 7471B ¹	SW846 7471B ⁴
Molybdenum ^a	< 8.6	8.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Nickel ^a	94.4	6.9	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Selenium ^a	< 3.4	3.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Silver ^a	< 1.7	1.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Thallium ^a	< 1.7	1.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Vanadium ^a	47.2	8.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Zinc ^a	52.6	3.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: F:MA13398

(2) Instrument QC Batch: F:MA13399

(3) Prep QC Batch: F:MP30813

(4) Prep QC Batch: F:MP30816

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E2-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-8	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0117983.D	1	09/09/16	AFL	n/a	n/a	F:VC4680
Run #2							

	Initial Weight	Final Volume
Run #1	4.88 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	51	10	ug/kg	
71-43-2	Benzene	ND	5.1	1.3	ug/kg	
108-86-1	Bromobenzene	ND	5.1	1.2	ug/kg	
74-97-5	Bromochloromethane	ND	5.1	1.1	ug/kg	
75-27-4	Bromodichloromethane	ND	5.1	1.0	ug/kg	
75-25-2	Bromoform	ND	5.1	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	26	9.3	ug/kg	
104-51-8	n-Butylbenzene	ND	5.1	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.1	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.1	1.0	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.1	1.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.1	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.1	2.0	ug/kg	
67-66-3	Chloroform	ND	5.1	1.2	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.1	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.1	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.1	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.1	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.1	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.1	2.5	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.1	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.1	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.1	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.1	1.7	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.1	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.1	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.1	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.1	1.6	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.1	1.6	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.1	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.1	1.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.1	1.3	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-8	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	5.1	1.9	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.1	1.0	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	5.1	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.1	1.1	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	5.1	1.3	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.1	2.2	ug/kg	
591-78-6	2-Hexanone	ND	26	8.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.1	1.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.1	1.0	ug/kg	
74-83-9	Methyl Bromide	ND	5.1	2.6	ug/kg	
74-87-3	Methyl Chloride	ND	5.1	2.5	ug/kg	
74-95-3	Methylene Bromide	ND	5.1	1.9	ug/kg	
75-09-2	Methylene Chloride	ND	10	4.1	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	26	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.1	1.1	ug/kg	
91-20-3	Naphthalene	ND	5.1	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.1	1.3	ug/kg	
100-42-5	Styrene	ND	5.1	1.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.1	1.4	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	51	14	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.1	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.1	2.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.1	1.3	ug/kg	
108-88-3	Toluene	ND	5.1	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.1	2.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	1.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.1	1.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.1	1.9	ug/kg	
79-01-6	Trichloroethylene	ND	5.1	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.1	1.9	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.1	1.7	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.1	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.1	1.0	ug/kg	
75-01-4	Vinyl Chloride	ND	5.1	1.7	ug/kg	
1330-20-7	Xylene (total)	ND	15	2.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		75-124%
17060-07-0	1,2-Dichloroethane-D4	114%		72-135%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-8	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	93%		75-126%
460-00-4	4-Bromofluorobenzene	95%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-8	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X048979.D	1	09/12/16	AFL	09/09/16	F:OP61812	F:SX2120
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	820	160	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	160	25	ug/kg	
95-57-8	2-Chlorophenol	ND	160	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	820	160	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	66	ug/kg	
95-48-7	2-Methylphenol	ND	160	18	ug/kg	
	3&4-Methylphenol	ND	160	39	ug/kg	
88-75-5	2-Nitrophenol	ND	160	20	ug/kg	
100-02-7	4-Nitrophenol	ND	820	130	ug/kg	
87-86-5	Pentachlorophenol	ND	820	130	ug/kg	
108-95-2	Phenol	ND	160	19	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	20	ug/kg	
62-53-3	Aniline	ND	160	33	ug/kg	
92-87-5	Benzidine ^b	ND	1600	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	160	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	160	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	160	33	ug/kg	
86-74-8	Carbazole	ND	160	19	ug/kg	
106-47-8	4-Chloroaniline	ND	160	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	160	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	160	29	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	160	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	160	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	160	21	ug/kg	
132-64-9	Dibenzofuran	ND	160	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	160	16	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	160	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	160	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	160	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-8	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	160	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	160	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	160	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	160	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	160	27	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	160	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	160	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	160	33	ug/kg	
67-72-1	Hexachloroethane	ND	160	19	ug/kg	
78-59-1	Isophorone	ND	160	17	ug/kg	
88-74-4	2-Nitroaniline	ND	160	28	ug/kg	
99-09-2	3-Nitroaniline	ND	160	28	ug/kg	
100-01-6	4-Nitroaniline	ND	160	28	ug/kg	
98-95-3	Nitrobenzene	ND	160	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	160	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	160	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	31	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	160	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	81%		40-102%
4165-62-2	Phenol-d5	86%		41-100%
118-79-6	2,4,6-Tribromophenol	76%		42-108%
4165-60-0	Nitrobenzene-d5	76%		40-105%
321-60-8	2-Fluorobiphenyl	73%		43-107%
1718-51-0	Terphenyl-d14	90%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated ICV outside control limits.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-8	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094896.D	1	09/12/16	AFL	09/10/16	F:OP61814	F:SW4252
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	64	26	ug/kg	
208-96-8	Acenaphthylene	ND	64	26	ug/kg	
120-12-7	Anthracene	ND	64	16	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.2	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.2	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.2	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.2	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.2	ug/kg	
218-01-9	Chrysene	ND	13	3.2	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.2	ug/kg	
206-44-0	Fluoranthene	ND	64	16	ug/kg	
86-73-7	Fluorene	ND	64	26	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.2	ug/kg	
90-12-0	1-Methylnaphthalene	ND	64	26	ug/kg	
91-57-6	2-Methylnaphthalene	ND	64	26	ug/kg	
91-20-3	Naphthalene	ND	64	26	ug/kg	
85-01-8	Phenanthrene	ND	64	16	ug/kg	
129-00-0	Pyrene	ND	64	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		40-105%
321-60-8	2-Fluorobiphenyl	86%		43-107%
1718-51-0	Terphenyl-d14	94%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E2-3	
Lab Sample ID:	C47015-8	Date Sampled: 09/06/16
Matrix:	SO - Soil	Date Received: 09/08/16
Method:	SW846 8015C	Percent Solids: n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075748.D	1	09/10/16	AFL	n/a	n/a	F:GUV4033
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.90 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.1	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%		56-149%
98-08-8	aaa-Trifluorotoluene	101%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-8	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379289.D	1	09/13/16	AFL	09/10/16	F:OP61815	F:GTT1859
Run #2							

	Initial Weight	Final Volume
Run #1	14.9 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.7	0.51	ug/kg	
319-84-6	alpha-BHC	ND	1.7	0.52	ug/kg	
319-85-7	beta-BHC	ND	1.7	0.51	ug/kg	
319-86-8	delta-BHC	ND	1.7	0.49	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.7	0.51	ug/kg	
12789-03-6	Chlordane	ND	17	6.7	ug/kg	
60-57-1	Dieldrin	ND	1.7	0.63	ug/kg	
72-54-8	4,4' -DDD	ND	3.4	0.58	ug/kg	
72-55-9	4,4' -DDE	ND	3.4	0.54	ug/kg	
50-29-3	4,4' -DDT	ND	3.4	0.66	ug/kg	
72-20-8	Endrin	ND	3.4	0.62	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.4	0.63	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.4	0.62	ug/kg	
959-98-8	Endosulfan-I	ND	1.7	0.49	ug/kg	
33213-65-9	Endosulfan-II	ND	1.7	0.62	ug/kg	
76-44-8	Heptachlor	ND	1.7	0.57	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.7	0.59	ug/kg	
72-43-5	Methoxychlor	ND	3.4	0.86	ug/kg	
8001-35-2	Toxaphene	ND	84	34	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	137% ^b		50-122%
2051-24-3	Decachlorobiphenyl	96%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Outside control limits. However, Sample was ND.

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 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-8	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138364.D	1	09/13/16	AFL	09/10/16	F:OP61816	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	14.9 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.6	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.4	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	8.0	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%		44-126%
2051-24-3	Decachlorobiphenyl	103%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

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 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E2-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-8	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002595.D	1	09/13/16	AFL	09/09/16	F:OP61813	F:GJR96
Run #2							

	Initial Weight	Final Volume
Run #1	19.6 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	5.1	2.6	mg/kg	
	TPH (> C28-C40)	ND	5.1	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-8	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 3.9	3.9	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Arsenic ^a	3.1	1.9	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Barium ^a	198	39	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Beryllium ^a	< 0.97	0.97	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cadmium ^a	< 0.78	0.78	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Chromium ^a	79.8	1.9	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cobalt ^a	18.8	9.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Copper ^a	36.4	4.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Lead ^a	9.3	3.9	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Mercury ^b	< 0.038	0.038	mg/kg	1	09/12/16	09/12/16	AFL SW846 7471B ¹	SW846 7471B ⁴
Molybdenum ^a	< 9.7	9.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Nickel ^a	100	7.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Selenium ^a	< 3.9	3.9	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Silver ^a	< 1.9	1.9	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Thallium ^a	< 1.9	1.9	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Vanadium ^a	49.2	9.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Zinc ^a	54.8	3.9	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: F:MA13398

(2) Instrument QC Batch: F:MA13399

(3) Prep QC Batch: F:MP30813

(4) Prep QC Batch: F:MP30816

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E2-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-9	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0117984.D	1	09/09/16	AFL	n/a	n/a	F:VC4680
Run #2							

	Initial Weight	Final Volume
Run #1	5.32 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	47	9.6	ug/kg	
71-43-2	Benzene	ND	4.7	1.2	ug/kg	
108-86-1	Bromobenzene	ND	4.7	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	4.7	1.0	ug/kg	
75-27-4	Bromodichloromethane	ND	4.7	0.94	ug/kg	
75-25-2	Bromoform	ND	4.7	0.94	ug/kg	
78-93-3	2-Butanone (MEK)	ND	23	8.5	ug/kg	
104-51-8	n-Butylbenzene	ND	4.7	0.94	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.7	0.94	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.7	0.94	ug/kg	
56-23-5	Carbon Tetrachloride	ND	4.7	1.7	ug/kg	
108-90-7	Chlorobenzene	ND	4.7	0.94	ug/kg	
75-00-3	Chloroethane	ND	4.7	1.9	ug/kg	
67-66-3	Chloroform	ND	4.7	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.7	0.94	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.7	0.94	ug/kg	
124-48-1	Dibromochloromethane	ND	4.7	0.94	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.7	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.7	0.94	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.7	2.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.94	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.94	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.96	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.7	1.6	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.7	0.94	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.7	0.94	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.7	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.7	1.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.7	1.5	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.7	0.94	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.7	0.94	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.7	1.2	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-9	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	4.7	1.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.7	0.94	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	4.7	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	4.7	1.0	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	4.7	1.2	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.7	2.0	ug/kg	
591-78-6	2-Hexanone	ND	23	8.2	ug/kg	
98-82-8	Isopropylbenzene	ND	4.7	1.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.7	0.94	ug/kg	
74-83-9	Methyl Bromide	ND	4.7	2.4	ug/kg	
74-87-3	Methyl Chloride	ND	4.7	2.3	ug/kg	
74-95-3	Methylene Bromide	ND	4.7	1.7	ug/kg	
75-09-2	Methylene Chloride	ND	9.4	3.8	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	23	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.7	1.0	ug/kg	
91-20-3	Naphthalene	ND	4.7	1.9	ug/kg	
103-65-1	n-Propylbenzene	ND	4.7	1.2	ug/kg	
100-42-5	Styrene	ND	4.7	0.94	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.7	1.3	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	47	13	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.7	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.7	2.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.7	1.2	ug/kg	
108-88-3	Toluene	ND	4.7	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.7	1.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	1.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.7	0.94	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.7	1.7	ug/kg	
79-01-6	Trichloroethylene	ND	4.7	1.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.7	1.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.7	1.5	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.7	0.94	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.7	0.94	ug/kg	
75-01-4	Vinyl Chloride	ND	4.7	1.6	ug/kg	
1330-20-7	Xylene (total)	ND	14	2.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		75-124%
17060-07-0	1,2-Dichloroethane-D4	114%		72-135%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-9	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	94%		75-126%
460-00-4	4-Bromofluorobenzene	95%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-9	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X048980.D	1	09/12/16	AFL	09/09/16	F:OP61812	F:SX2120
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	66	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	20	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine ^b	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	19	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-9	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	27	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%		40-102%
4165-62-2	Phenol-d5	63%		41-100%
118-79-6	2,4,6-Tribromophenol	55%		42-108%
4165-60-0	Nitrobenzene-d5	57%		40-105%
321-60-8	2-Fluorobiphenyl	61%		43-107%
1718-51-0	Terphenyl-d14	70%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated ICV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-9	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094897.D	1	09/12/16	AFL	09/10/16	F:OP61814	F:SW4252
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	65	26	ug/kg	
208-96-8	Acenaphthylene	ND	65	26	ug/kg	
120-12-7	Anthracene	ND	65	16	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.3	ug/kg	
218-01-9	Chrysene	ND	13	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.3	ug/kg	
206-44-0	Fluoranthene	ND	65	16	ug/kg	
86-73-7	Fluorene	ND	65	26	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.3	ug/kg	
90-12-0	1-Methylnaphthalene	ND	65	26	ug/kg	
91-57-6	2-Methylnaphthalene	ND	65	26	ug/kg	
91-20-3	Naphthalene	ND	65	26	ug/kg	
85-01-8	Phenanthrene	ND	65	16	ug/kg	
129-00-0	Pyrene	ND	65	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		40-105%
321-60-8	2-Fluorobiphenyl	85%		43-107%
1718-51-0	Terphenyl-d14	68%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

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3

Client Sample ID:	E2-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-9	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075749.D	1	09/10/16	AFL	n/a	n/a	F:GUV4033
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.85 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.2	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%		56-149%
98-08-8	aaa-Trifluorotoluene	101%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-9	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379290.D	1	09/13/16	AFL	09/10/16	F:OP61815	F:GTT1859
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.6	0.50	ug/kg	
319-84-6	alpha-BHC	ND	1.6	0.50	ug/kg	
319-85-7	beta-BHC	ND	1.6	0.50	ug/kg	
319-86-8	delta-BHC	ND	1.6	0.48	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.6	0.50	ug/kg	
12789-03-6	Chlordane	ND	16	6.5	ug/kg	
60-57-1	Dieldrin	ND	1.6	0.61	ug/kg	
72-54-8	4,4' -DDD	ND	3.3	0.56	ug/kg	
72-55-9	4,4' -DDE	ND	3.3	0.53	ug/kg	
50-29-3	4,4' -DDT	ND	3.3	0.64	ug/kg	
72-20-8	Endrin	ND	3.3	0.61	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.61	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	0.61	ug/kg	
959-98-8	Endosulfan-I	ND	1.6	0.48	ug/kg	
33213-65-9	Endosulfan-II	ND	1.6	0.60	ug/kg	
76-44-8	Heptachlor	ND	1.6	0.56	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.6	0.57	ug/kg	
72-43-5	Methoxychlor	ND	3.3	0.84	ug/kg	
8001-35-2	Toxaphene	ND	82	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	130% ^b		50-122%
2051-24-3	Decachlorobiphenyl	86%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Outside control limits. However, Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-9	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138365.D	1	09/13/16	AFL	09/10/16	F:OP61816	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	16	6.5	ug/kg	
11104-28-2	Aroclor 1221	ND	16	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	16	8.2	ug/kg	
53469-21-9	Aroclor 1242	ND	16	6.5	ug/kg	
12672-29-6	Aroclor 1248	ND	16	6.5	ug/kg	
11097-69-1	Aroclor 1254	ND	16	7.8	ug/kg	
11096-82-5	Aroclor 1260	ND	16	6.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		44-126%
2051-24-3	Decachlorobiphenyl	97%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E2-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-9	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002596.D	1	09/13/16	AFL	09/09/16	F:OP61813	F:GJR96
Run #2							

	Initial Weight	Final Volume
Run #1	19.9 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	5.0	2.5	mg/kg	
	TPH (> C28-C40)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-9	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 4.3	4.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Arsenic ^a	3.7	2.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Barium ^a	164	43	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Beryllium ^a	< 1.1	1.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cadmium ^a	< 0.86	0.86	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Chromium ^a	72.6	2.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cobalt ^a	17.7	11	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Copper ^a	37.0	5.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Lead ^a	8.5	4.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Mercury ^b	0.10	0.038	mg/kg	1	09/12/16	09/12/16	AFL SW846 7471B ¹	SW846 7471B ⁴
Molybdenum ^a	< 11	11	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Nickel ^a	95.6	8.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Selenium ^a	< 4.3	4.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Silver ^a	< 2.2	2.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Thallium ^a	< 2.2	2.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Vanadium ^a	53.4	11	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Zinc ^a	53.8	4.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: F:MA13398

(2) Instrument QC Batch: F:MA13399

(3) Prep QC Batch: F:MP30813

(4) Prep QC Batch: F:MP30816

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E2-7	Date Sampled:	09/06/16
Lab Sample ID:	C47015-10	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0117985.D	1	09/09/16	AFL	n/a	n/a	F:VC4680
Run #2							

	Initial Weight	Final Volume
Run #1	4.97 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	10	ug/kg	
71-43-2	Benzene	ND	5.0	1.3	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.2	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.1	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	25	9.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.0	1.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.7	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.6	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.3	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-7	Date Sampled:	09/06/16
Lab Sample ID:	C47015-10	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.9	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	5.0	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.1	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	5.0	1.3	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.2	ug/kg	
591-78-6	2-Hexanone	ND	25	8.8	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/kg	
74-83-9	Methyl Bromide	ND	5.0	2.6	ug/kg	
74-87-3	Methyl Chloride	ND	5.0	2.4	ug/kg	
74-95-3	Methylene Bromide	ND	5.0	1.8	ug/kg	
75-09-2	Methylene Chloride	ND	10	4.0	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.1	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.2	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	1.4	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	50	14	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
108-88-3	Toluene	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.8	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.9	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.6	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl Chloride	ND	5.0	1.7	ug/kg	
1330-20-7	Xylene (total)	ND	15	2.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		75-124%
17060-07-0	1,2-Dichloroethane-D4	116%		72-135%

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 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-7	Date Sampled:	09/06/16
Lab Sample ID:	C47015-10	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	98%		75-126%
460-00-4	4-Bromofluorobenzene	95%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-7	Date Sampled:	09/06/16
Lab Sample ID:	C47015-10	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X048981.D	1	09/12/16	AFL	09/09/16	F:OP61812	F:SX2120
Run #2							

	Initial Weight	Final Volume
Run #1	29.8 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	840	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	24	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	840	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	340	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	40	ug/kg	
88-75-5	2-Nitrophenol	ND	170	21	ug/kg	
100-02-7	4-Nitrophenol	ND	840	130	ug/kg	
87-86-5	Pentachlorophenol	ND	840	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	34	ug/kg	
92-87-5	Benzidine ^b	ND	1700	340	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	20	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	34	ug/kg	
86-74-8	Carbazole	ND	170	20	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-7	Date Sampled:	09/06/16
Lab Sample ID:	C47015-10	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	340	34	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	34	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	34	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	340	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	340	34	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	34	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	29	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	29	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	41	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	340	34	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	66%		40-102%
4165-62-2	Phenol-d5	71%		41-100%
118-79-6	2,4,6-Tribromophenol	63%		42-108%
4165-60-0	Nitrobenzene-d5	59%		40-105%
321-60-8	2-Fluorobiphenyl	61%		43-107%
1718-51-0	Terphenyl-d14	77%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated ICV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-7	Date Sampled:	09/06/16
Lab Sample ID:	C47015-10	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094898.D	1	09/12/16	AFL	09/10/16	F:OP61814	F:SW4252
Run #2							

	Initial Weight	Final Volume
Run #1	14.9 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	67	27	ug/kg	
208-96-8	Acenaphthylene	ND	67	27	ug/kg	
120-12-7	Anthracene	ND	67	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.4	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.4	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.4	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.4	ug/kg	
218-01-9	Chrysene	ND	13	3.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.4	ug/kg	
206-44-0	Fluoranthene	ND	67	17	ug/kg	
86-73-7	Fluorene	ND	67	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.4	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	27	ug/kg	
91-20-3	Naphthalene	ND	67	27	ug/kg	
85-01-8	Phenanthrene	ND	67	17	ug/kg	
129-00-0	Pyrene	ND	67	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	89%		40-105%
321-60-8	2-Fluorobiphenyl	96%		43-107%
1718-51-0	Terphenyl-d14	93%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E2-7	Date Sampled:	09/06/16
Lab Sample ID:	C47015-10	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075801.D	1	09/13/16	AFL	n/a	n/a	F:GUV4035
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.58 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.5	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		56-149%
98-08-8	aaa-Trifluorotoluene	95%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-7	Date Sampled:	09/06/16
Lab Sample ID:	C47015-10	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379291.D	1	09/13/16	AFL	09/10/16	F:OP61815	F:GTT1859
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.7	0.51	ug/kg	
319-84-6	alpha-BHC	ND	1.7	0.51	ug/kg	
319-85-7	beta-BHC	ND	1.7	0.51	ug/kg	
319-86-8	delta-BHC	ND	1.7	0.49	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.7	0.51	ug/kg	
12789-03-6	Chlordane	ND	17	6.7	ug/kg	
60-57-1	Dieldrin	ND	1.7	0.63	ug/kg	
72-54-8	4,4' -DDD	ND	3.3	0.57	ug/kg	
72-55-9	4,4' -DDE	ND	3.3	0.54	ug/kg	
50-29-3	4,4' -DDT	ND	3.3	0.65	ug/kg	
72-20-8	Endrin	ND	3.3	0.62	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.62	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	0.62	ug/kg	
959-98-8	Endosulfan-I	ND	1.7	0.49	ug/kg	
33213-65-9	Endosulfan-II	ND	1.7	0.62	ug/kg	
76-44-8	Heptachlor	ND	1.7	0.57	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.7	0.58	ug/kg	
72-43-5	Methoxychlor	ND	3.3	0.86	ug/kg	
8001-35-2	Toxaphene	ND	83	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	126% ^b		50-122%
2051-24-3	Decachlorobiphenyl	88%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Outside control limits. However, Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-7	Date Sampled:	09/06/16
Lab Sample ID:	C47015-10	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138366.D	1	09/13/16	AFL	09/10/16	F:OP61816	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.5	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	8.0	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		44-126%
2051-24-3	Decachlorobiphenyl	95%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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3.10
3

Client Sample ID:	E2-7	Date Sampled:	09/06/16
Lab Sample ID:	C47015-10	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002597.D	1	09/13/16	AFL	09/09/16	F:OP61813	F:GJR96
Run #2							

	Initial Weight	Final Volume
Run #1	19.5 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	5.1	2.6	mg/kg	
	TPH (> C28-C40)	ND	5.1	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E2-7	Date Sampled:	09/06/16
Lab Sample ID:	C47015-10	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 4.6	4.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Arsenic ^a	3.0	2.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Barium ^a	128	46	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Beryllium ^a	< 1.1	1.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cadmium ^a	< 0.92	0.92	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Chromium ^a	67.7	2.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cobalt ^a	16.1	11	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Copper ^a	35.0	5.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Lead ^a	7.6	4.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Mercury ^b	0.093	0.039	mg/kg	1	09/12/16	09/12/16	AFL SW846 7471B ¹	SW846 7471B ⁴
Molybdenum ^a	< 11	11	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Nickel ^a	90.8	9.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Selenium ^a	< 4.6	4.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Silver ^a	< 2.3	2.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Thallium ^a	< 2.3	2.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Vanadium ^a	44.5	11	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Zinc ^a	56.5	4.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: F:MA13398

(2) Instrument QC Batch: F:MA13399

(3) Prep QC Batch: F:MP30813

(4) Prep QC Batch: F:MP30816

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E3-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-11	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	F0079478.D	1	09/10/16	AFL	n/a	n/a	F:VF2731
Run #2							

	Initial Weight	Final Volume
Run #1	4.60 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	54	11	ug/kg	
71-43-2	Benzene	ND	5.4	1.4	ug/kg	
108-86-1	Bromobenzene	ND	5.4	1.3	ug/kg	
74-97-5	Bromochloromethane	ND	5.4	1.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.4	1.1	ug/kg	
75-25-2	Bromoform	ND	5.4	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	27	9.9	ug/kg	
104-51-8	n-Butylbenzene	ND	5.4	1.1	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.4	1.1	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.4	1.1	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.4	1.9	ug/kg	
108-90-7	Chlorobenzene	ND	5.4	1.1	ug/kg	
75-00-3	Chloroethane	ND	5.4	2.2	ug/kg	
67-66-3	Chloroform	ND	5.4	1.3	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.4	1.1	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.4	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.4	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.4	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.4	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.4	2.7	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.4	1.1	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.4	1.1	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.4	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.4	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.4	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.4	1.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.4	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.4	1.7	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.4	1.7	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.4	1.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.4	1.1	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.4	1.4	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-11	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	5.4	2.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.4	1.1	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	5.4	1.3	ug/kg	
100-41-4	Ethylbenzene	ND	5.4	1.2	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	5.4	1.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.4	2.4	ug/kg	
591-78-6	2-Hexanone	ND	27	9.5	ug/kg	
98-82-8	Isopropylbenzene	ND	5.4	1.5	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.4	1.1	ug/kg	
74-83-9	Methyl Bromide	ND	5.4	2.8	ug/kg	
74-87-3	Methyl Chloride	ND	5.4	2.6	ug/kg	
74-95-3	Methylene Bromide	ND	5.4	2.0	ug/kg	
75-09-2	Methylene Chloride	ND	11	4.3	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	27	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.4	1.2	ug/kg	
91-20-3	Naphthalene	ND	5.4	2.2	ug/kg	
103-65-1	n-Propylbenzene	ND	5.4	1.3	ug/kg	
100-42-5	Styrene	ND	5.4	1.1	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.4	1.5	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	54	15	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.4	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.4	2.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.4	1.4	ug/kg	
108-88-3	Toluene	ND	5.4	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	2.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	1.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.4	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.4	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.4	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.4	2.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.4	1.8	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.4	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.4	1.1	ug/kg	
75-01-4	Vinyl Chloride	ND	5.4	1.8	ug/kg	
1330-20-7	Xylene (total)	ND	16	3.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%		75-124%
17060-07-0	1,2-Dichloroethane-D4	126%		72-135%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-11	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	92%		75-126%
460-00-4	4-Bromofluorobenzene	96%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-11	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X048982.D	1	09/12/16	AFL	09/09/16	F:OP61812	F:SX2120
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	820	160	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	160	25	ug/kg	
95-57-8	2-Chlorophenol	ND	160	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	820	160	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	66	ug/kg	
95-48-7	2-Methylphenol	ND	160	18	ug/kg	
	3&4-Methylphenol	ND	160	39	ug/kg	
88-75-5	2-Nitrophenol	ND	160	20	ug/kg	
100-02-7	4-Nitrophenol	ND	820	130	ug/kg	
87-86-5	Pentachlorophenol	ND	820	130	ug/kg	
108-95-2	Phenol	ND	160	19	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	20	ug/kg	
62-53-3	Aniline	ND	160	33	ug/kg	
92-87-5	Benzidine ^b	ND	1600	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	160	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	160	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	160	33	ug/kg	
86-74-8	Carbazole	ND	160	19	ug/kg	
106-47-8	4-Chloroaniline	ND	160	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	160	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	160	29	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	160	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	160	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	160	21	ug/kg	
132-64-9	Dibenzofuran	ND	160	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	160	16	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	160	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	160	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	160	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-11	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	160	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	160	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	160	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	160	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	160	27	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	160	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	160	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	160	33	ug/kg	
67-72-1	Hexachloroethane	ND	160	19	ug/kg	
78-59-1	Isophorone	ND	160	17	ug/kg	
88-74-4	2-Nitroaniline	ND	160	28	ug/kg	
99-09-2	3-Nitroaniline	ND	160	28	ug/kg	
100-01-6	4-Nitroaniline	ND	160	28	ug/kg	
98-95-3	Nitrobenzene	ND	160	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	160	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	160	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	31	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	160	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	73%		40-102%
4165-62-2	Phenol-d5	79%		41-100%
118-79-6	2,4,6-Tribromophenol	69%		42-108%
4165-60-0	Nitrobenzene-d5	70%		40-105%
321-60-8	2-Fluorobiphenyl	75%		43-107%
1718-51-0	Terphenyl-d14	88%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated ICV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-11	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094932.D	1	09/13/16	AFL	09/10/16	F:OP61814	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	65	26	ug/kg	
208-96-8	Acenaphthylene	ND	65	26	ug/kg	
120-12-7	Anthracene	ND	65	16	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.2	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.2	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.2	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.2	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.2	ug/kg	
218-01-9	Chrysene	ND	13	3.2	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.2	ug/kg	
206-44-0	Fluoranthene	ND	65	16	ug/kg	
86-73-7	Fluorene	ND	65	26	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.2	ug/kg	
90-12-0	1-Methylnaphthalene	ND	65	26	ug/kg	
91-57-6	2-Methylnaphthalene	ND	65	26	ug/kg	
91-20-3	Naphthalene	ND	65	26	ug/kg	
85-01-8	Phenanthrene	ND	65	16	ug/kg	
129-00-0	Pyrene	ND	65	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		40-105%
321-60-8	2-Fluorobiphenyl	65%		43-107%
1718-51-0	Terphenyl-d14	74%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E3-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-11	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075802.D	1	09/13/16	AFL	n/a	n/a	F:GUV4035
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.52 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.5	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		56-149%
98-08-8	aaa-Trifluorotoluene	94%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-11	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379329.D	1	09/13/16	AFL	09/10/16	F:OP61815	F:GTT1860
Run #2 ^a	TT379323.D	10	09/13/16	AFL	09/10/16	F:OP61815	F:GTT1860

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2	15.1 g	5.0 ml

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.7	0.50	ug/kg	
319-84-6	alpha-BHC	ND	1.7	0.51	ug/kg	
319-85-7	beta-BHC	ND	1.7	0.51	ug/kg	
319-86-8	delta-BHC	ND	1.7	0.48	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.7	0.51	ug/kg	
12789-03-6	Chlordane	ND	17	6.6	ug/kg	
60-57-1	Dieldrin	ND	1.7	0.62	ug/kg	
72-54-8	4,4' -DDD	ND	3.3	0.57	ug/kg	
72-55-9	4,4' -DDE	ND	3.3	0.53	ug/kg	
50-29-3	4,4' -DDT	ND	3.3	0.65	ug/kg	
72-20-8	Endrin	ND	3.3	0.62	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.62	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	0.62	ug/kg	
959-98-8	Endosulfan-I	ND	1.7	0.48	ug/kg	
33213-65-9	Endosulfan-II	ND	1.7	0.61	ug/kg	
76-44-8	Heptachlor	ND	1.7	0.56	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.7	0.58	ug/kg	
72-43-5	Methoxychlor	ND ^b	33	8.5	ug/kg	
8001-35-2	Toxaphene	ND	83	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	127% ^c	121%	50-122%
2051-24-3	Decachlorobiphenyl	68%	84%	50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Result is from Run# 2

(c) Outside control limits. However, Sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-11	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138367.D	1	09/13/16	AFL	09/10/16	F:OP61816	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.6	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.4	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.6	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.6	ug/kg	
11097-69-1	Aroclor 1254	ND	17	7.9	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		44-126%
2051-24-3	Decachlorobiphenyl	96%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

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 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E3-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-11	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002598.D	1	09/13/16	AFL	09/09/16	F:OP61813	F:GJR96
Run #2							

	Initial Weight	Final Volume
Run #1	19.9 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	5.0	2.5	mg/kg	
	TPH (> C28-C40)	6.52	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	64%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-11	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 3.5	3.5	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Arsenic ^a	3.2	1.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Barium ^a	152	35	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Beryllium ^a	< 0.88	0.88	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cadmium ^a	< 0.70	0.70	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Chromium ^a	62.0	1.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cobalt ^a	14.2	8.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Copper ^a	29.6	4.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Lead ^a	8.1	3.5	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Mercury ^b	0.042	0.038	mg/kg	1	09/12/16	09/12/16	AFL SW846 7471B ¹	SW846 7471B ⁴
Molybdenum ^a	< 8.8	8.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Nickel ^a	70.9	7.0	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Selenium ^a	< 3.5	3.5	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Silver ^a	< 1.8	1.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Thallium ^a	< 1.8	1.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Vanadium ^a	47.2	8.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Zinc ^a	55.2	3.5	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: F:MA13398

(2) Instrument QC Batch: F:MA13399

(3) Prep QC Batch: F:MP30813

(4) Prep QC Batch: F:MP30816

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E3-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-12	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	F0079479.D	1	09/10/16	AFL	n/a	n/a	F:VF2731
Run #2							

	Initial Weight	Final Volume
Run #1	4.84 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	95.1	52	11	ug/kg	
71-43-2	Benzene	ND	5.2	1.3	ug/kg	
108-86-1	Bromobenzene	ND	5.2	1.3	ug/kg	
74-97-5	Bromochloromethane	ND	5.2	1.1	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	1.0	ug/kg	
75-25-2	Bromoform	ND	5.2	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	15.1	26	9.4	ug/kg	J
104-51-8	n-Butylbenzene	ND	5.2	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.2	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.2	1.0	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.2	1.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.2	2.1	ug/kg	
67-66-3	Chloroform	ND	5.2	1.3	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.2	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.2	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.2	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.2	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.2	2.6	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.2	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.2	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.2	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	1.7	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.2	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.2	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	1.6	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	1.6	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.2	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.2	1.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.2	1.3	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-12	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	1.0	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	5.2	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.2	1.1	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	5.2	1.3	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.2	2.3	ug/kg	
591-78-6	2-Hexanone	ND	26	9.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.2	1.5	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.2	1.0	ug/kg	
74-83-9	Methyl Bromide	ND	5.2	2.7	ug/kg	
74-87-3	Methyl Chloride	ND	5.2	2.5	ug/kg	
74-95-3	Methylene Bromide	ND	5.2	1.9	ug/kg	
75-09-2	Methylene Chloride	ND	10	4.1	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	26	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.2	1.1	ug/kg	
91-20-3	Naphthalene	ND	5.2	2.1	ug/kg	
103-65-1	n-Propylbenzene	ND	5.2	1.3	ug/kg	
100-42-5	Styrene	ND	5.2	1.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.2	1.4	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	52	14	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.2	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	2.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.2	1.4	ug/kg	
108-88-3	Toluene	ND	5.2	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.2	2.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	1.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	1.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	1.9	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.2	1.9	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.2	1.7	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.2	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.2	1.0	ug/kg	
75-01-4	Vinyl Chloride	ND	5.2	1.7	ug/kg	
1330-20-7	Xylene (total)	ND	15	2.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		75-124%
17060-07-0	1,2-Dichloroethane-D4	124%		72-135%

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Report of Analysis

Client Sample ID:	E3-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-12	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	92%		75-126%
460-00-4	4-Bromofluorobenzene	94%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-12	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X048983.D	1	09/12/16	AFL	09/09/16	F:OP61812	F:SX2120
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	21	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine ^b	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	19	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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J = Indicates an estimated value

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-12	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	62%		40-102%
4165-62-2	Phenol-d5	69%		41-100%
118-79-6	2,4,6-Tribromophenol	60%		42-108%
4165-60-0	Nitrobenzene-d5	62%		40-105%
321-60-8	2-Fluorobiphenyl	57%		43-107%
1718-51-0	Terphenyl-d14	75%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated ICV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-12	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094933.D	1	09/13/16	AFL	09/10/16	F:OP61814	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	14.9 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	67	27	ug/kg	
208-96-8	Acenaphthylene	ND	67	27	ug/kg	
120-12-7	Anthracene	ND	67	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.4	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.4	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.4	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.4	ug/kg	
218-01-9	Chrysene	ND	13	3.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.4	ug/kg	
206-44-0	Fluoranthene	ND	67	17	ug/kg	
86-73-7	Fluorene	ND	67	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.4	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	27	ug/kg	
91-20-3	Naphthalene	ND	67	27	ug/kg	
85-01-8	Phenanthrene	ND	67	17	ug/kg	
129-00-0	Pyrene	ND	67	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	91%		40-105%
321-60-8	2-Fluorobiphenyl	81%		43-107%
1718-51-0	Terphenyl-d14	84%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E3-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-12	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075806.D	1	09/13/16	AFL	n/a	n/a	F:GUV4035
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.96 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		56-149%
98-08-8	aaa-Trifluorotoluene	94%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-12	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379293.D	1	09/13/16	AFL	09/10/16	F:OP61815	F:GTT1859
Run #2 ^b	TT379324.D	2	09/13/16	AFL	09/10/16	F:OP61815	F:GTT1860

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2	15.4 g	5.0 ml

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.7	0.51	ug/kg	
319-84-6	alpha-BHC	ND	1.7	0.51	ug/kg	
319-85-7	beta-BHC	ND	1.7	0.51	ug/kg	
319-86-8	delta-BHC	ND	1.7	0.49	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.7	0.51	ug/kg	
12789-03-6	Chlordane	ND	17	6.7	ug/kg	
60-57-1	Dieldrin	2.5 ^c	3.2	1.2	ug/kg	J
72-54-8	4,4' -DDD	1.7 ^c	6.5	1.1	ug/kg	J
72-55-9	4,4' -DDE	20.8 ^c	6.5	1.0	ug/kg	
50-29-3	4,4' -DDT	ND	3.3	0.65	ug/kg	
72-20-8	Endrin	ND	3.3	0.62	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.62	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	0.62	ug/kg	
959-98-8	Endosulfan-I	ND	1.7	0.49	ug/kg	
33213-65-9	Endosulfan-II	ND	1.7	0.62	ug/kg	
76-44-8	Heptachlor	ND	1.7	0.57	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.7	0.58	ug/kg	
72-43-5	Methoxychlor	ND	3.3	0.86	ug/kg	
8001-35-2	Toxaphene	ND	83	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	122%	111%	50-122%
2051-24-3	Decachlorobiphenyl	78%	82%	50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) All hits confirmed by dual column analysis. Dilution required due to matrix interference. Analysis performed at SGS Accutest, Orlando FL.

(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-12	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138368.D	1	09/13/16	AFL	09/10/16	F:OP61816	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	16	6.5	ug/kg	
11104-28-2	Aroclor 1221	ND	16	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	16	8.1	ug/kg	
53469-21-9	Aroclor 1242	ND	16	6.5	ug/kg	
12672-29-6	Aroclor 1248	ND	16	6.5	ug/kg	
11097-69-1	Aroclor 1254	ND	16	7.8	ug/kg	
11096-82-5	Aroclor 1260	ND	16	6.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%		44-126%
2051-24-3	Decachlorobiphenyl	99%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E3-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-12	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002603.D	1	09/13/16	AFL	09/09/16	F:OP61813	F:GJR96
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	4.60	4.9	2.4	mg/kg	J
	TPH (> C28-C40)	6.48	4.9	2.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	70%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-12	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 4.1	4.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Arsenic ^a	2.7	2.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Barium ^a	143	41	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Beryllium ^a	< 1.0	1.0	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cadmium ^a	< 0.83	0.83	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Chromium ^a	65.1	2.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cobalt ^a	15.2	10	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Copper ^a	30.9	5.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Lead ^a	9.1	4.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Mercury ^b	0.042	0.039	mg/kg	1	09/12/16	09/12/16	AFL SW846 7471B ¹	SW846 7471B ⁴
Molybdenum ^a	< 10	10	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Nickel ^a	77.5	8.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Selenium ^a	< 4.1	4.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Silver ^a	< 2.1	2.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Thallium ^a	< 2.1	2.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Vanadium ^a	50.0	10	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Zinc ^a	52.0	4.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: F:MA13398

(2) Instrument QC Batch: F:MA13399

(3) Prep QC Batch: F:MP30813

(4) Prep QC Batch: F:MP30816

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E3-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-13	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0117995.D	1	09/12/16	AFL	n/a	n/a	F:VC4681
Run #2							

	Initial Weight	Final Volume
Run #1	4.58 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	104	55	11	ug/kg	
71-43-2	Benzene	ND	5.5	1.4	ug/kg	
108-86-1	Bromobenzene	ND	5.5	1.3	ug/kg	
74-97-5	Bromochloromethane	ND	5.5	1.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.5	1.1	ug/kg	
75-25-2	Bromoform	ND	5.5	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	16.3	27	9.9	ug/kg	J
104-51-8	n-Butylbenzene	ND	5.5	1.1	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.5	1.1	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.5	1.1	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.5	1.9	ug/kg	
108-90-7	Chlorobenzene	ND	5.5	1.1	ug/kg	
75-00-3	Chloroethane	ND	5.5	2.2	ug/kg	
67-66-3	Chloroform	ND	5.5	1.3	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.5	1.1	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.5	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.5	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.5	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.5	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.5	2.7	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.5	1.1	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.5	1.1	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.5	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.5	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.5	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.5	1.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.5	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.5	1.7	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.5	1.7	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.5	1.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.5	1.1	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.5	1.4	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-13	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	5.5	2.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.5	1.1	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	5.5	1.3	ug/kg	
100-41-4	Ethylbenzene	ND	5.5	1.2	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	5.5	1.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.5	2.4	ug/kg	
591-78-6	2-Hexanone	ND	27	9.5	ug/kg	
98-82-8	Isopropylbenzene	ND	5.5	1.5	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.5	1.1	ug/kg	
74-83-9	Methyl Bromide	ND	5.5	2.8	ug/kg	
74-87-3	Methyl Chloride	ND	5.5	2.6	ug/kg	
74-95-3	Methylene Bromide	ND	5.5	2.0	ug/kg	
75-09-2	Methylene Chloride	ND	11	4.4	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	27	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.5	1.2	ug/kg	
91-20-3	Naphthalene	ND	5.5	2.2	ug/kg	
103-65-1	n-Propylbenzene	ND	5.5	1.4	ug/kg	
100-42-5	Styrene	ND	5.5	1.1	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.5	1.5	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	55	15	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.5	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	2.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.5	1.4	ug/kg	
108-88-3	Toluene	ND	5.5	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.5	2.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.5	1.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.5	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.5	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.5	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.5	2.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.5	1.8	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.5	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.5	1.1	ug/kg	
75-01-4	Vinyl Chloride	ND	5.5	1.8	ug/kg	
1330-20-7	Xylene (total)	ND	16	3.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		75-124%
17060-07-0	1,2-Dichloroethane-D4	105%		72-135%

ND = Not detected MDL = Method Detection Limit
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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-13	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	97%		75-126%
460-00-4	4-Bromofluorobenzene	102%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-13	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X048984.D	1	09/12/16	AFL	09/09/16	F:OP61812	F:SX2120
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	66	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	21	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine ^b	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	19	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-13	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	67%		40-102%
4165-62-2	Phenol-d5	72%		41-100%
118-79-6	2,4,6-Tribromophenol	65%		42-108%
4165-60-0	Nitrobenzene-d5	66%		40-105%
321-60-8	2-Fluorobiphenyl	60%		43-107%
1718-51-0	Terphenyl-d14	78%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated ICV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-13	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094934.D	1	09/13/16	AFL	09/10/16	F:OP61814	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	14.5 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	69	28	ug/kg	
208-96-8	Acenaphthylene	ND	69	28	ug/kg	
120-12-7	Anthracene	ND	69	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	14	3.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	14	3.4	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	14	3.4	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	14	3.4	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	14	3.4	ug/kg	
218-01-9	Chrysene	ND	14	3.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	14	3.4	ug/kg	
206-44-0	Fluoranthene	ND	69	17	ug/kg	
86-73-7	Fluorene	ND	69	28	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	14	3.4	ug/kg	
90-12-0	1-Methylnaphthalene	ND	69	28	ug/kg	
91-57-6	2-Methylnaphthalene	ND	69	28	ug/kg	
91-20-3	Naphthalene	ND	69	28	ug/kg	
85-01-8	Phenanthrene	ND	69	17	ug/kg	
129-00-0	Pyrene	ND	69	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	89%		40-105%
321-60-8	2-Fluorobiphenyl	78%		43-107%
1718-51-0	Terphenyl-d14	98%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E3-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-13	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075809.D	1	09/13/16	AFL	n/a	n/a	F:GUV4035
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.61 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.4	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		56-149%
98-08-8	aaa-Trifluorotoluene	93%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-13	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379294.D	1	09/13/16	AFL	09/10/16	F:OP61815	F:GTT1859
Run #2							

	Initial Weight	Final Volume
Run #1	14.9 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.7	0.51	ug/kg	
319-84-6	alpha-BHC	ND	1.7	0.52	ug/kg	
319-85-7	beta-BHC	ND	1.7	0.51	ug/kg	
319-86-8	delta-BHC	ND	1.7	0.49	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.7	0.51	ug/kg	
12789-03-6	Chlordane	ND	17	6.7	ug/kg	
60-57-1	Dieldrin	ND	1.7	0.63	ug/kg	
72-54-8	4,4' -DDD	ND	3.4	0.58	ug/kg	
72-55-9	4,4' -DDE	ND	3.4	0.54	ug/kg	
50-29-3	4,4' -DDT	ND	3.4	0.66	ug/kg	
72-20-8	Endrin	ND	3.4	0.62	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.4	0.63	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.4	0.62	ug/kg	
959-98-8	Endosulfan-I	ND	1.7	0.49	ug/kg	
33213-65-9	Endosulfan-II	ND	1.7	0.62	ug/kg	
76-44-8	Heptachlor	ND	1.7	0.57	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.7	0.59	ug/kg	
72-43-5	Methoxychlor	ND	3.4	0.86	ug/kg	
8001-35-2	Toxaphene	ND	84	34	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	109%		50-122%
2051-24-3	Decachlorobiphenyl	78%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

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 RL = Reporting Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-13	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138369.D	1	09/13/16	AFL	09/10/16	F:OP61816	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	14.9 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.6	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.4	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	8.0	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%		44-126%
2051-24-3	Decachlorobiphenyl	96%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E3-4	
Lab Sample ID:	C47015-13	Date Sampled: 09/06/16
Matrix:	SO - Soil	Date Received: 09/08/16
Method:	SW846 8015C SW846 3550C	Percent Solids: n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002604.D	1	09/13/16	AFL	09/09/16	F:OP61813	F:GJR96
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	4.9	2.4	mg/kg	
	TPH (> C28-C40)	2.40	4.9	2.4	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	67%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-13	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 3.4	3.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Arsenic ^a	3.2	1.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Barium ^a	147	34	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Beryllium ^a	< 0.86	0.86	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cadmium ^a	< 0.69	0.69	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Chromium ^a	66.1	1.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cobalt ^a	15.5	8.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Copper ^a	30.6	4.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Lead ^a	7.4	3.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Mercury ^b	0.10	0.038	mg/kg	1	09/12/16	09/12/16	AFL SW846 7471B ¹	SW846 7471B ⁴
Molybdenum ^a	< 8.6	8.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Nickel ^a	78.2	6.9	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Selenium ^a	< 3.4	3.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Silver ^a	< 1.7	1.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Thallium ^a	< 1.7	1.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Vanadium ^a	54.7	8.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Zinc ^a	47.0	3.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: F:MA13398

(2) Instrument QC Batch: F:MA13399

(3) Prep QC Batch: F:MP30813

(4) Prep QC Batch: F:MP30816

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E3-6	Date Sampled:	09/06/16
Lab Sample ID:	C47015-14	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0117996.D	1	09/12/16	AFL	n/a	n/a	F:VC4681
Run #2							

	Initial Weight	Final Volume
Run #1	5.28 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	47	9.7	ug/kg	
71-43-2	Benzene	ND	4.7	1.2	ug/kg	
108-86-1	Bromobenzene	ND	4.7	1.2	ug/kg	
74-97-5	Bromochloromethane	ND	4.7	1.1	ug/kg	
75-27-4	Bromodichloromethane	ND	4.7	0.95	ug/kg	
75-25-2	Bromoform	ND	4.7	0.95	ug/kg	
78-93-3	2-Butanone (MEK)	ND	24	8.6	ug/kg	
104-51-8	n-Butylbenzene	ND	4.7	0.95	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.7	0.95	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.7	0.95	ug/kg	
56-23-5	Carbon Tetrachloride	ND	4.7	1.7	ug/kg	
108-90-7	Chlorobenzene	ND	4.7	0.95	ug/kg	
75-00-3	Chloroethane	ND	4.7	1.9	ug/kg	
67-66-3	Chloroform	ND	4.7	1.2	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.7	0.95	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.7	0.95	ug/kg	
124-48-1	Dibromochloromethane	ND	4.7	0.95	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.7	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.7	0.95	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.7	2.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.95	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.95	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.97	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.7	1.6	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.7	0.95	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.7	0.95	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.7	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.7	1.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.7	1.5	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.7	0.95	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.7	0.95	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.7	1.2	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-6	Date Sampled:	09/06/16
Lab Sample ID:	C47015-14	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	4.7	1.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.7	0.95	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	4.7	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	4.7	1.0	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	4.7	1.2	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.7	2.1	ug/kg	
591-78-6	2-Hexanone	ND	24	8.3	ug/kg	
98-82-8	Isopropylbenzene	ND	4.7	1.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.7	0.95	ug/kg	
74-83-9	Methyl Bromide	ND	4.7	2.4	ug/kg	
74-87-3	Methyl Chloride	ND	4.7	2.3	ug/kg	
74-95-3	Methylene Bromide	ND	4.7	1.7	ug/kg	
75-09-2	Methylene Chloride ^b	11.3	9.5	3.8	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	24	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.7	1.1	ug/kg	
91-20-3	Naphthalene	ND	4.7	1.9	ug/kg	
103-65-1	n-Propylbenzene	ND	4.7	1.2	ug/kg	
100-42-5	Styrene	ND	4.7	0.95	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.7	1.3	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	47	13	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.7	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.7	2.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.7	1.2	ug/kg	
108-88-3	Toluene	ND	4.7	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.7	1.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	1.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.7	0.95	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.7	1.7	ug/kg	
79-01-6	Trichloroethylene	ND	4.7	1.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.7	1.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.7	1.5	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.7	0.95	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.7	0.95	ug/kg	
75-01-4	Vinyl Chloride	ND	4.7	1.6	ug/kg	
1330-20-7	Xylene (total)	ND	14	2.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		75-124%
17060-07-0	1,2-Dichloroethane-D4	103%		72-135%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-6	Date Sampled:	09/06/16
Lab Sample ID:	C47015-14	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	94%		75-126%
460-00-4	4-Bromofluorobenzene	97%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

(b) Suspected laboratory contaminant.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-6	Date Sampled:	09/06/16
Lab Sample ID:	C47015-14	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X048985.D	1	09/12/16	AFL	09/09/16	F:OP61812	F:SX2120
Run #2							

	Initial Weight	Final Volume
Run #1	29.7 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	840	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	24	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	840	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	340	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	40	ug/kg	
88-75-5	2-Nitrophenol	ND	170	21	ug/kg	
100-02-7	4-Nitrophenol	ND	840	130	ug/kg	
87-86-5	Pentachlorophenol	ND	840	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	34	ug/kg	
92-87-5	Benzidine ^b	ND	1700	340	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	20	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	34	ug/kg	
86-74-8	Carbazole	ND	170	20	ug/kg	
106-47-8	4-Chloroaniline	ND	170	24	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	26	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	19	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-6	Date Sampled:	09/06/16
Lab Sample ID:	C47015-14	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	340	34	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	34	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	34	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	340	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	340	34	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	34	ug/kg	
67-72-1	Hexachloroethane	ND	170	20	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	29	ug/kg	
99-09-2	3-Nitroaniline	ND	170	29	ug/kg	
100-01-6	4-Nitroaniline	ND	170	29	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	41	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	340	34	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		40-102%
4165-62-2	Phenol-d5	67%		41-100%
118-79-6	2,4,6-Tribromophenol	54%		42-108%
4165-60-0	Nitrobenzene-d5	55%		40-105%
321-60-8	2-Fluorobiphenyl	60%		43-107%
1718-51-0	Terphenyl-d14	75%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated ICV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-6	Date Sampled:	09/06/16
Lab Sample ID:	C47015-14	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094935.D	1	09/13/16	AFL	09/10/16	F:OP61814	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	67	27	ug/kg	
208-96-8	Acenaphthylene	ND	67	27	ug/kg	
120-12-7	Anthracene	ND	67	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.3	ug/kg	
218-01-9	Chrysene	ND	13	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.3	ug/kg	
206-44-0	Fluoranthene	ND	67	17	ug/kg	
86-73-7	Fluorene	ND	67	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.3	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	27	ug/kg	
91-20-3	Naphthalene	ND	67	27	ug/kg	
85-01-8	Phenanthrene	ND	67	17	ug/kg	
129-00-0	Pyrene	ND	67	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		40-105%
321-60-8	2-Fluorobiphenyl	97%		43-107%
1718-51-0	Terphenyl-d14	91%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E3-6	Date Sampled:	09/06/16
Lab Sample ID:	C47015-14	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075777.D	1	09/12/16	AFL	n/a	n/a	F:GUV4034
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.15 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	4.9	2.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		56-149%
98-08-8	aaa-Trifluorotoluene	95%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-6	Date Sampled:	09/06/16
Lab Sample ID:	C47015-14	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379295.D	1	09/13/16	AFL	09/10/16	F:OP61815	F:GTT1859
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.6	0.49	ug/kg	
319-84-6	alpha-BHC	ND	1.6	0.50	ug/kg	
319-85-7	beta-BHC	ND	1.6	0.50	ug/kg	
319-86-8	delta-BHC	ND	1.6	0.47	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.6	0.50	ug/kg	
12789-03-6	Chlordane	ND	16	6.5	ug/kg	
60-57-1	Dieldrin	ND	1.6	0.61	ug/kg	
72-54-8	4,4' -DDD	ND	3.2	0.56	ug/kg	
72-55-9	4,4' -DDE	ND	3.2	0.52	ug/kg	
50-29-3	4,4' -DDT	ND	3.2	0.64	ug/kg	
72-20-8	Endrin	ND	3.2	0.60	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.2	0.61	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.2	0.60	ug/kg	
959-98-8	Endosulfan-I	ND	1.6	0.47	ug/kg	
33213-65-9	Endosulfan-II	ND	1.6	0.60	ug/kg	
76-44-8	Heptachlor	ND	1.6	0.55	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.6	0.57	ug/kg	
72-43-5	Methoxychlor	ND	3.2	0.83	ug/kg	
8001-35-2	Toxaphene	ND	81	32	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		50-122%
2051-24-3	Decachlorobiphenyl	75%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-6	Date Sampled:	09/06/16
Lab Sample ID:	C47015-14	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138370.D	1	09/13/16	AFL	09/10/16	F:OP61816	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	16	6.5	ug/kg	
11104-28-2	Aroclor 1221	ND	16	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	16	8.1	ug/kg	
53469-21-9	Aroclor 1242	ND	16	6.5	ug/kg	
12672-29-6	Aroclor 1248	ND	16	6.5	ug/kg	
11097-69-1	Aroclor 1254	ND	16	7.8	ug/kg	
11096-82-5	Aroclor 1260	ND	16	6.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		44-126%
2051-24-3	Decachlorobiphenyl	88%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E3-6	Date Sampled:	09/06/16
Lab Sample ID:	C47015-14	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002605.D	1	09/13/16	AFL	09/09/16	F:OP61813	F:GJR96
Run #2							

	Initial Weight	Final Volume
Run #1	19.7 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	5.1	2.5	mg/kg	
	TPH (> C28-C40)	ND	5.1	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E3-6	Date Sampled:	09/06/16
Lab Sample ID:	C47015-14	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 3.8	3.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Arsenic ^a	3.1	1.9	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Barium ^a	120	38	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Beryllium ^a	< 0.94	0.94	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cadmium ^a	< 0.75	0.75	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Chromium ^a	78.1	1.9	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cobalt ^a	12.6	9.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Copper ^a	27.7	4.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Lead ^a	6.9	3.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Mercury ^b	0.062	0.038	mg/kg	1	09/12/16	09/12/16	AFL SW846 7471B ¹	SW846 7471B ⁴
Molybdenum ^a	< 9.4	9.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Nickel ^a	65.5	7.5	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Selenium ^a	< 3.8	3.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Silver ^a	< 1.9	1.9	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Thallium ^a	< 1.9	1.9	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Vanadium ^a	66.7	9.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Zinc ^a	47.7	3.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: F:MA13398

(2) Instrument QC Batch: F:MA13399

(3) Prep QC Batch: F:MP30813

(4) Prep QC Batch: F:MP30816

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E4-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-15	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	F0079482.D	1	09/10/16	AFL	n/a	n/a	F:VF2731
Run #2							

	Initial Weight	Final Volume
Run #1	4.69 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	53	11	ug/kg	
71-43-2	Benzene	ND	5.3	1.3	ug/kg	
108-86-1	Bromobenzene	ND	5.3	1.3	ug/kg	
74-97-5	Bromochloromethane	ND	5.3	1.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.3	1.1	ug/kg	
75-25-2	Bromoform	ND	5.3	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	27	9.7	ug/kg	
104-51-8	n-Butylbenzene	ND	5.3	1.1	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.3	1.1	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.3	1.1	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.3	1.9	ug/kg	
108-90-7	Chlorobenzene	ND	5.3	1.1	ug/kg	
75-00-3	Chloroethane	ND	5.3	2.1	ug/kg	
67-66-3	Chloroform	ND	5.3	1.3	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.3	1.1	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.3	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.3	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.3	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.3	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.3	2.6	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.3	1.1	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.3	1.1	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.3	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.3	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.3	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.3	1.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.3	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.3	1.6	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.3	1.7	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.3	1.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.3	1.1	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.3	1.4	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-15	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	1.1	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	5.3	1.3	ug/kg	
100-41-4	Ethylbenzene	ND	5.3	1.2	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	5.3	1.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.3	2.3	ug/kg	
591-78-6	2-Hexanone	ND	27	9.3	ug/kg	
98-82-8	Isopropylbenzene	ND	5.3	1.5	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.3	1.1	ug/kg	
74-83-9	Methyl Bromide	ND	5.3	2.8	ug/kg	
74-87-3	Methyl Chloride	ND	5.3	2.6	ug/kg	
74-95-3	Methylene Bromide	ND	5.3	1.9	ug/kg	
75-09-2	Methylene Chloride ^b	10.4	11	4.3	ug/kg	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	27	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.3	1.2	ug/kg	
91-20-3	Naphthalene	ND	5.3	2.1	ug/kg	
103-65-1	n-Propylbenzene	ND	5.3	1.3	ug/kg	
100-42-5	Styrene	ND	5.3	1.1	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.3	1.4	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	53	14	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.3	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	2.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.3	1.4	ug/kg	
108-88-3	Toluene	ND	5.3	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.3	2.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.3	1.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.3	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.3	1.9	ug/kg	
79-01-6	Trichloroethylene	ND	5.3	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.3	2.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.3	1.7	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.3	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.3	1.1	ug/kg	
75-01-4	Vinyl Chloride	ND	5.3	1.8	ug/kg	
1330-20-7	Xylene (total)	ND	16	3.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		75-124%
17060-07-0	1,2-Dichloroethane-D4	125%		72-135%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-15	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	96%		75-126%
460-00-4	4-Bromofluorobenzene	106%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

(b) Suspected laboratory contaminant.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-15	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X048986.D	1	09/12/16	AFL	09/09/16	F:OP61812	F:SX2120
Run #2							

	Initial Weight	Final Volume
Run #1	29.9 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	840	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	24	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	840	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	21	ug/kg	
100-02-7	4-Nitrophenol	ND	840	130	ug/kg	
87-86-5	Pentachlorophenol	ND	840	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine ^b	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	20	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	20	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-15	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	58%		40-102%
4165-62-2	Phenol-d5	63%		41-100%
118-79-6	2,4,6-Tribromophenol	60%		42-108%
4165-60-0	Nitrobenzene-d5	57%		40-105%
321-60-8	2-Fluorobiphenyl	60%		43-107%
1718-51-0	Terphenyl-d14	71%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated ICV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-15	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094936.D	1	09/13/16	AFL	09/10/16	F:OP61814	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	14.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	68	27	ug/kg	
208-96-8	Acenaphthylene	ND	68	27	ug/kg	
120-12-7	Anthracene	ND	68	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	14	3.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	14	3.4	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	14	3.4	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	14	3.4	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	14	3.4	ug/kg	
218-01-9	Chrysene	ND	14	3.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	14	3.4	ug/kg	
206-44-0	Fluoranthene	ND	68	17	ug/kg	
86-73-7	Fluorene	ND	68	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	14	3.4	ug/kg	
90-12-0	1-Methylnaphthalene	ND	68	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	68	27	ug/kg	
91-20-3	Naphthalene	ND	68	27	ug/kg	
85-01-8	Phenanthrene	ND	68	17	ug/kg	
129-00-0	Pyrene	ND	68	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		40-105%
321-60-8	2-Fluorobiphenyl	81%		43-107%
1718-51-0	Terphenyl-d14	74%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E4-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-15	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075778.D	1	09/12/16	AFL	n/a	n/a	F:GUV4034
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.74 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	4.4	2.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		56-149%
98-08-8	aaa-Trifluorotoluene	94%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-15	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379296.D	1	09/13/16	AFL	09/10/16	F:OP61815	F:GTT1859
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.6	0.50	ug/kg	
319-84-6	alpha-BHC	ND	1.6	0.51	ug/kg	
319-85-7	beta-BHC	ND	1.6	0.50	ug/kg	
319-86-8	delta-BHC	ND	1.6	0.48	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.6	0.50	ug/kg	
12789-03-6	Chlordane	ND	16	6.6	ug/kg	
60-57-1	Dieldrin	ND	1.6	0.62	ug/kg	
72-54-8	4,4' -DDD	ND	3.3	0.57	ug/kg	
72-55-9	4,4' -DDE	ND	3.3	0.53	ug/kg	
50-29-3	4,4' -DDT	ND	3.3	0.64	ug/kg	
72-20-8	Endrin	ND	3.3	0.61	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.62	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	0.61	ug/kg	
959-98-8	Endosulfan-I	ND	1.6	0.48	ug/kg	
33213-65-9	Endosulfan-II	ND	1.6	0.61	ug/kg	
76-44-8	Heptachlor	ND	1.6	0.56	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.6	0.58	ug/kg	
72-43-5	Methoxychlor	ND	3.3	0.85	ug/kg	
8001-35-2	Toxaphene	ND	82	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	108%		50-122%
2051-24-3	Decachlorobiphenyl	74%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-15	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138371.D	1	09/13/16	AFL	09/10/16	F:OP61816	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	16	6.6	ug/kg	
11104-28-2	Aroclor 1221	ND	16	8.4	ug/kg	
11141-16-5	Aroclor 1232	ND	16	8.2	ug/kg	
53469-21-9	Aroclor 1242	ND	16	6.6	ug/kg	
12672-29-6	Aroclor 1248	ND	16	6.6	ug/kg	
11097-69-1	Aroclor 1254	ND	16	7.9	ug/kg	
11096-82-5	Aroclor 1260	ND	16	6.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		44-126%
2051-24-3	Decachlorobiphenyl	94%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E4-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-15	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002606.D	1	09/13/16	AFL	09/09/16	F:OP61813	F:GJR96
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	4.9	2.5	mg/kg	
	TPH (> C28-C40)	3.60	4.9	2.5	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-15	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 4.2	4.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Arsenic ^a	3.9	2.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Barium ^a	172	42	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Beryllium ^a	< 1.1	1.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cadmium ^a	< 0.85	0.85	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Chromium ^a	82.5	2.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cobalt ^a	17.9	11	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Copper ^a	39.0	5.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Lead ^a	9.6	4.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Mercury ^b	0.098	0.040	mg/kg	1	09/12/16	09/12/16	AFL SW846 7471B ¹	SW846 7471B ⁴
Molybdenum ^a	< 11	11	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Nickel ^a	101	8.5	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Selenium ^a	< 4.2	4.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Silver ^a	< 2.1	2.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Thallium ^a	< 2.1	2.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Vanadium ^a	61.4	11	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Zinc ^a	59.7	4.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: F:MA13398

(2) Instrument QC Batch: F:MA13399

(3) Prep QC Batch: F:MP30813

(4) Prep QC Batch: F:MP30816

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E4-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-16	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	F0079483.D	1	09/10/16	AFL	n/a	n/a	F:VF2731
Run #2							

	Initial Weight	Final Volume
Run #1	5.76 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	43	8.9	ug/kg	
71-43-2	Benzene	ND	4.3	1.1	ug/kg	
108-86-1	Bromobenzene	ND	4.3	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	4.3	0.96	ug/kg	
75-27-4	Bromodichloromethane	ND	4.3	0.87	ug/kg	
75-25-2	Bromoform	ND	4.3	0.87	ug/kg	
78-93-3	2-Butanone (MEK)	ND	22	7.9	ug/kg	
104-51-8	n-Butylbenzene	ND	4.3	0.87	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.3	0.87	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.3	0.87	ug/kg	
56-23-5	Carbon Tetrachloride	ND	4.3	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	4.3	0.87	ug/kg	
75-00-3	Chloroethane	ND	4.3	1.7	ug/kg	
67-66-3	Chloroform	ND	4.3	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.3	0.87	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.3	0.87	ug/kg	
124-48-1	Dibromochloromethane	ND	4.3	0.87	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.3	1.9	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.3	0.87	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.3	2.2	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.3	0.87	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.3	0.87	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.3	0.89	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.3	1.5	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.3	0.87	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.3	0.87	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.3	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.3	1.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.3	1.4	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.3	0.87	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.3	0.87	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.3	1.1	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-16	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	4.3	1.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.3	0.87	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	4.3	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	4.3	0.95	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	4.3	1.1	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.3	1.9	ug/kg	
591-78-6	2-Hexanone	ND	22	7.6	ug/kg	
98-82-8	Isopropylbenzene	ND	4.3	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.3	0.87	ug/kg	
74-83-9	Methyl Bromide	ND	4.3	2.2	ug/kg	
74-87-3	Methyl Chloride	ND	4.3	2.1	ug/kg	
74-95-3	Methylene Bromide	ND	4.3	1.6	ug/kg	
75-09-2	Methylene Chloride ^b	9.9	8.7	3.5	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	22	9.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.3	0.96	ug/kg	
91-20-3	Naphthalene	ND	4.3	1.7	ug/kg	
103-65-1	n-Propylbenzene	ND	4.3	1.1	ug/kg	
100-42-5	Styrene	ND	4.3	0.87	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.3	1.2	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	43	12	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.3	0.97	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.3	1.9	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.3	1.1	ug/kg	
108-88-3	Toluene	ND	4.3	0.98	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.3	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.3	1.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.3	0.87	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.3	1.6	ug/kg	
79-01-6	Trichloroethylene	ND	4.3	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.3	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.3	1.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.3	0.87	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.3	0.87	ug/kg	
75-01-4	Vinyl Chloride	ND	4.3	1.4	ug/kg	
1330-20-7	Xylene (total)	ND	13	2.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		75-124%
17060-07-0	1,2-Dichloroethane-D4	125%		72-135%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-16	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	92%		75-126%
460-00-4	4-Bromofluorobenzene	97%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

(b) Suspected laboratory contaminant.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-16	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X049005.D	1	09/13/16	AFL	09/09/16	F:OP61812	F:SX2121
Run #2							

	Initial Weight	Final Volume
Run #1	29.6 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	840	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	24	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	840	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	340	68	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	40	ug/kg	
88-75-5	2-Nitrophenol	ND	170	21	ug/kg	
100-02-7	4-Nitrophenol	ND	840	140	ug/kg	
87-86-5	Pentachlorophenol	ND	840	140	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	21	ug/kg	
62-53-3	Aniline	ND	170	34	ug/kg	
92-87-5	Benzidine	ND	1700	340	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	23	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	20	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	34	ug/kg	
86-74-8	Carbazole	ND	170	20	ug/kg	
106-47-8	4-Chloroaniline	ND	170	24	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	26	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	19	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-16	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	340	34	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	34	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	34	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	340	68	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	22	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	340	34	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	34	ug/kg	
67-72-1	Hexachloroethane	ND	170	20	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	29	ug/kg	
99-09-2	3-Nitroaniline	ND	170	29	ug/kg	
100-01-6	4-Nitroaniline	ND	170	29	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	41	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	340	34	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		40-102%
4165-62-2	Phenol-d5	54%		41-100%
118-79-6	2,4,6-Tribromophenol	78%		42-108%
4165-60-0	Nitrobenzene-d5	51%		40-105%
321-60-8	2-Fluorobiphenyl	55%		43-107%
1718-51-0	Terphenyl-d14	63%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-16	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094937.D	1	09/13/16	AFL	09/10/16	F:OP61814	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	66	26	ug/kg	
208-96-8	Acenaphthylene	ND	66	26	ug/kg	
120-12-7	Anthracene	ND	66	16	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.3	ug/kg	
218-01-9	Chrysene	ND	13	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.3	ug/kg	
206-44-0	Fluoranthene	ND	66	16	ug/kg	
86-73-7	Fluorene	ND	66	26	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.3	ug/kg	
90-12-0	1-Methylnaphthalene	ND	66	26	ug/kg	
91-57-6	2-Methylnaphthalene	ND	66	26	ug/kg	
91-20-3	Naphthalene	ND	66	26	ug/kg	
85-01-8	Phenanthrene	ND	66	16	ug/kg	
129-00-0	Pyrene	ND	66	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		40-105%
321-60-8	2-Fluorobiphenyl	89%		43-107%
1718-51-0	Terphenyl-d14	82%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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3.16
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Client Sample ID:	E4-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-16	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075779.D	1	09/12/16	AFL	n/a	n/a	F:GUV4034
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.79 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.2	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		56-149%
98-08-8	aaa-Trifluorotoluene	94%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-16	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379299.D	1	09/13/16	AFL	09/10/16	F:OP61815	F:GTT1859
Run #2							

	Initial Weight	Final Volume
Run #1	14.9 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.7	0.51	ug/kg	
319-84-6	alpha-BHC	ND	1.7	0.52	ug/kg	
319-85-7	beta-BHC	ND	1.7	0.51	ug/kg	
319-86-8	delta-BHC	ND	1.7	0.49	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.7	0.51	ug/kg	
12789-03-6	Chlordane	ND	17	6.7	ug/kg	
60-57-1	Dieldrin	ND	1.7	0.63	ug/kg	
72-54-8	4,4' -DDD	ND	3.4	0.58	ug/kg	
72-55-9	4,4' -DDE	ND	3.4	0.54	ug/kg	
50-29-3	4,4' -DDT	ND	3.4	0.66	ug/kg	
72-20-8	Endrin	ND	3.4	0.62	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.4	0.63	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.4	0.62	ug/kg	
959-98-8	Endosulfan-I	ND	1.7	0.49	ug/kg	
33213-65-9	Endosulfan-II	ND	1.7	0.62	ug/kg	
76-44-8	Heptachlor	ND	1.7	0.57	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.7	0.59	ug/kg	
72-43-5	Methoxychlor	ND	3.4	0.86	ug/kg	
8001-35-2	Toxaphene	ND	84	34	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	103%		50-122%
2051-24-3	Decachlorobiphenyl	76%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-16	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138372.D	1	09/13/16	AFL	09/10/16	F:OP61816	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	14.9 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.6	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.4	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	8.0	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		44-126%
2051-24-3	Decachlorobiphenyl	88%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E4-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-16	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002701.D	1	09/15/16	AFL	09/09/16	F:OP61813	F:GJR99
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	4.9	2.5	mg/kg	
	TPH (> C28-C40)	ND	4.9	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-16	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 3.7	3.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Arsenic ^a	4.5	1.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Barium ^a	167	37	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Beryllium ^a	< 0.92	0.92	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cadmium ^a	< 0.74	0.74	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Chromium ^a	65.3	1.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cobalt ^a	16.7	9.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Copper ^a	32.0	4.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Lead ^a	10.5	3.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Mercury ^b	0.044	0.038	mg/kg	1	09/12/16	09/12/16	AFL SW846 7471B ¹	SW846 7471B ⁴
Molybdenum ^a	< 9.2	9.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Nickel ^a	82.4	7.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Selenium ^a	< 3.7	3.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Silver ^a	< 1.8	1.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Thallium ^a	< 1.8	1.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Vanadium ^a	52.5	9.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Zinc ^a	56.6	3.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: F:MA13398

(2) Instrument QC Batch: F:MA13399

(3) Prep QC Batch: F:MP30813

(4) Prep QC Batch: F:MP30816

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E4-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-17	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0117997.D	1	09/12/16	AFL	n/a	n/a	F:VC4681
Run #2							

	Initial Weight	Final Volume
Run #1	4.86 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	51	10	ug/kg	
71-43-2	Benzene	ND	5.1	1.3	ug/kg	
108-86-1	Bromobenzene	ND	5.1	1.3	ug/kg	
74-97-5	Bromochloromethane	ND	5.1	1.1	ug/kg	
75-27-4	Bromodichloromethane	ND	5.1	1.0	ug/kg	
75-25-2	Bromoform	ND	5.1	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	26	9.3	ug/kg	
104-51-8	n-Butylbenzene	ND	5.1	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.1	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.1	1.0	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.1	1.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.1	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.1	2.1	ug/kg	
67-66-3	Chloroform	ND	5.1	1.3	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.1	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.1	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.1	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.1	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.1	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.1	2.6	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.1	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.1	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.1	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.1	1.7	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.1	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.1	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.1	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.1	1.6	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.1	1.6	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.1	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.1	1.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.1	1.3	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-17	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	5.1	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.1	1.0	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	5.1	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.1	1.1	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	5.1	1.3	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.1	2.2	ug/kg	
591-78-6	2-Hexanone	ND	26	9.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.1	1.5	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.1	1.0	ug/kg	
74-83-9	Methyl Bromide	ND	5.1	2.7	ug/kg	
74-87-3	Methyl Chloride	ND	5.1	2.5	ug/kg	
74-95-3	Methylene Bromide	ND	5.1	1.9	ug/kg	
75-09-2	Methylene Chloride ^b	8.3	10	4.1	ug/kg	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	26	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.1	1.1	ug/kg	
91-20-3	Naphthalene	ND	5.1	2.1	ug/kg	
103-65-1	n-Propylbenzene	ND	5.1	1.3	ug/kg	
100-42-5	Styrene	ND	5.1	1.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.1	1.4	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	51	14	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.1	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.1	2.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.1	1.3	ug/kg	
108-88-3	Toluene	ND	5.1	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.1	2.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	1.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.1	1.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.1	1.9	ug/kg	
79-01-6	Trichloroethylene	ND	5.1	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.1	1.9	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.1	1.7	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.1	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.1	1.0	ug/kg	
75-01-4	Vinyl Chloride	ND	5.1	1.7	ug/kg	
1330-20-7	Xylene (total)	ND	15	2.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		75-124%
17060-07-0	1,2-Dichloroethane-D4	105%		72-135%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-17	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	92%		75-126%
460-00-4	4-Bromofluorobenzene	97%		71-133%

- (a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.
- (b) Suspected laboratory contaminant.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-17	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X048988.D	1	09/12/16	AFL	09/09/16	F:OP61812	F:SX2120
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	820	160	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	160	25	ug/kg	
95-57-8	2-Chlorophenol	ND	160	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	820	160	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	66	ug/kg	
95-48-7	2-Methylphenol	ND	160	18	ug/kg	
	3&4-Methylphenol	ND	160	39	ug/kg	
88-75-5	2-Nitrophenol	ND	160	20	ug/kg	
100-02-7	4-Nitrophenol	ND	820	130	ug/kg	
87-86-5	Pentachlorophenol	ND	820	130	ug/kg	
108-95-2	Phenol	ND	160	19	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	20	ug/kg	
62-53-3	Aniline	ND	160	33	ug/kg	
92-87-5	Benzidine ^b	ND	1600	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	160	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	160	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	160	33	ug/kg	
86-74-8	Carbazole	ND	160	19	ug/kg	
106-47-8	4-Chloroaniline	ND	160	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	160	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	160	29	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	160	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	160	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	160	21	ug/kg	
132-64-9	Dibenzofuran	ND	160	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	160	16	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	160	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	160	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	160	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-17	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	160	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	160	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	160	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	160	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	160	27	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	160	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	160	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	160	33	ug/kg	
67-72-1	Hexachloroethane	ND	160	19	ug/kg	
78-59-1	Isophorone	ND	160	17	ug/kg	
88-74-4	2-Nitroaniline	ND	160	28	ug/kg	
99-09-2	3-Nitroaniline	ND	160	28	ug/kg	
100-01-6	4-Nitroaniline	ND	160	28	ug/kg	
98-95-3	Nitrobenzene	ND	160	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	160	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	160	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	31	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	160	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	70%		40-102%
4165-62-2	Phenol-d5	78%		41-100%
118-79-6	2,4,6-Tribromophenol	69%		42-108%
4165-60-0	Nitrobenzene-d5	78%		40-105%
321-60-8	2-Fluorobiphenyl	71%		43-107%
1718-51-0	Terphenyl-d14	89%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated ICV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-17	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094938.D	1	09/13/16	AFL	09/10/16	F:OP61814	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	14.9 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	67	27	ug/kg	
208-96-8	Acenaphthylene	ND	67	27	ug/kg	
120-12-7	Anthracene	ND	67	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.4	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.4	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.4	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.4	ug/kg	
218-01-9	Chrysene	ND	13	3.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.4	ug/kg	
206-44-0	Fluoranthene	ND	67	17	ug/kg	
86-73-7	Fluorene	ND	67	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.4	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	27	ug/kg	
91-20-3	Naphthalene	ND	67	27	ug/kg	
85-01-8	Phenanthrene	ND	67	17	ug/kg	
129-00-0	Pyrene	ND	67	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	88%		40-105%
321-60-8	2-Fluorobiphenyl	80%		43-107%
1718-51-0	Terphenyl-d14	90%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E4-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-17	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075780.D	1	09/12/16	AFL	n/a	n/a	F:GUV4034
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	3.99 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.3	3.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		56-149%
98-08-8	aaa-Trifluorotoluene	93%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-17	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379371.D	1	09/14/16	AFL	09/12/16	F:OP61829	F:GTT1861
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin ^b	ND	1.7	0.51	ug/kg	
319-84-6	alpha-BHC ^b	ND	1.7	0.51	ug/kg	
319-85-7	beta-BHC ^b	ND	1.7	0.51	ug/kg	
319-86-8	delta-BHC ^b	ND	1.7	0.49	ug/kg	
58-89-9	gamma-BHC (Lindane) ^b	ND	1.7	0.51	ug/kg	
12789-03-6	Chlordane	ND	17	6.7	ug/kg	
60-57-1	Dieldrin	ND	1.7	0.63	ug/kg	
72-54-8	4,4' -DDD	ND	3.3	0.57	ug/kg	
72-55-9	4,4' -DDE	ND	3.3	0.54	ug/kg	
50-29-3	4,4' -DDT	ND	3.3	0.65	ug/kg	
72-20-8	Endrin	ND	3.3	0.62	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.62	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	0.62	ug/kg	
959-98-8	Endosulfan-I ^b	ND	1.7	0.49	ug/kg	
33213-65-9	Endosulfan-II	ND	1.7	0.62	ug/kg	
76-44-8	Heptachlor ^b	ND	1.7	0.57	ug/kg	
1024-57-3	Heptachlor epoxide ^b	ND	1.7	0.58	ug/kg	
72-43-5	Methoxychlor	ND	3.3	0.86	ug/kg	
8001-35-2	Toxaphene	ND	83	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%		50-122%
2051-24-3	Decachlorobiphenyl	87%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated CCV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-17	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138376.D	1	09/13/16	AFL	09/12/16	F:OP61830	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.5	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	8.0	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%		44-126%
2051-24-3	Decachlorobiphenyl	97%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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3.17
3

Client Sample ID:	E4-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-17	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002608.D	1	09/13/16	AFL	09/09/16	F:OP61813	F:GJR96
Run #2							

	Initial Weight	Final Volume
Run #1	19.7 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	5.1	2.5	mg/kg	
	TPH (> C28-C40)	ND	5.1	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	67%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E4-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-17	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 4.4	4.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Arsenic ^a	4.7	2.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Barium ^a	140	44	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Beryllium ^a	< 1.1	1.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cadmium ^a	< 0.88	0.88	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Chromium ^a	58.7	2.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cobalt ^a	15.8	11	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Copper ^a	34.1	5.5	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Lead ^a	9.7	4.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Mercury ^b	0.12	0.040	mg/kg	1	09/12/16	09/12/16	AFL SW846 7471B ¹	SW846 7471B ⁴
Molybdenum ^a	< 11	11	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Nickel ^a	93.7	8.8	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Selenium ^a	< 4.4	4.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Silver ^a	< 2.2	2.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Thallium ^a	< 2.2	2.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Vanadium ^a	49.2	11	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Zinc ^a	58.0	4.4	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: F:MA13398

(2) Instrument QC Batch: F:MA13399

(3) Prep QC Batch: F:MP30813

(4) Prep QC Batch: F:MP30816

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E5-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-18	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0117998.D	1	09/12/16	AFL	n/a	n/a	F:VC4681
Run #2							

	Initial Weight	Final Volume
Run #1	4.57 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	55	11	ug/kg	
71-43-2	Benzene	ND	5.5	1.4	ug/kg	
108-86-1	Bromobenzene	ND	5.5	1.3	ug/kg	
74-97-5	Bromochloromethane	ND	5.5	1.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.5	1.1	ug/kg	
75-25-2	Bromoform	ND	5.5	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	27	9.9	ug/kg	
104-51-8	n-Butylbenzene	ND	5.5	1.1	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.5	1.1	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.5	1.1	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.5	1.9	ug/kg	
108-90-7	Chlorobenzene	ND	5.5	1.1	ug/kg	
75-00-3	Chloroethane	ND	5.5	2.2	ug/kg	
67-66-3	Chloroform	ND	5.5	1.3	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.5	1.1	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.5	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.5	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.5	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.5	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.5	2.7	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.5	1.1	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.5	1.1	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.5	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.5	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.5	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.5	1.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.5	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.5	1.7	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.5	1.7	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.5	1.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.5	1.1	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.5	1.4	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-18	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	5.5	2.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.5	1.1	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	5.5	1.3	ug/kg	
100-41-4	Ethylbenzene	ND	5.5	1.2	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	5.5	1.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.5	2.4	ug/kg	
591-78-6	2-Hexanone	ND	27	9.6	ug/kg	
98-82-8	Isopropylbenzene	ND	5.5	1.5	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.5	1.1	ug/kg	
74-83-9	Methyl Bromide	ND	5.5	2.8	ug/kg	
74-87-3	Methyl Chloride	ND	5.5	2.6	ug/kg	
74-95-3	Methylene Bromide	ND	5.5	2.0	ug/kg	
75-09-2	Methylene Chloride ^b	5.1	11	4.4	ug/kg	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	27	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.5	1.2	ug/kg	
91-20-3	Naphthalene	ND	5.5	2.2	ug/kg	
103-65-1	n-Propylbenzene	ND	5.5	1.4	ug/kg	
100-42-5	Styrene	ND	5.5	1.1	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.5	1.5	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	55	15	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.5	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	2.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.5	1.4	ug/kg	
108-88-3	Toluene	ND	5.5	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.5	2.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.5	1.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.5	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.5	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.5	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.5	2.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.5	1.8	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.5	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.5	1.1	ug/kg	
75-01-4	Vinyl Chloride	ND	5.5	1.8	ug/kg	
1330-20-7	Xylene (total)	ND	16	3.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		75-124%
17060-07-0	1,2-Dichloroethane-D4	107%		72-135%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-18	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	96%		75-126%
460-00-4	4-Bromofluorobenzene	99%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

(b) Suspected laboratory contaminant.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-18	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X048989.D	1	09/12/16	AFL	09/09/16	F:OP61812	F:SX2120
Run #2							

	Initial Weight	Final Volume
Run #1	29.8 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	840	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	24	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	840	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	340	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	40	ug/kg	
88-75-5	2-Nitrophenol	ND	170	21	ug/kg	
100-02-7	4-Nitrophenol	ND	840	130	ug/kg	
87-86-5	Pentachlorophenol	ND	840	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	34	ug/kg	
92-87-5	Benzidine ^b	ND	1700	340	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	20	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	34	ug/kg	
86-74-8	Carbazole	ND	170	20	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-18	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	340	34	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	34	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	34	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	340	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	340	34	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	34	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	29	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	29	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	41	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	340	34	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	66%		40-102%
4165-62-2	Phenol-d5	70%		41-100%
118-79-6	2,4,6-Tribromophenol	65%		42-108%
4165-60-0	Nitrobenzene-d5	65%		40-105%
321-60-8	2-Fluorobiphenyl	65%		43-107%
1718-51-0	Terphenyl-d14	83%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated ICV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-18	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094939.D	1	09/13/16	AFL	09/10/16	F:OP61814	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	65	26	ug/kg	
208-96-8	Acenaphthylene	ND	65	26	ug/kg	
120-12-7	Anthracene	ND	65	16	ug/kg	
56-55-3	Benzo(a)anthracene	24.6	13	3.2	ug/kg	
50-32-8	Benzo(a)pyrene	23.3	13	3.2	ug/kg	
205-99-2	Benzo(b)fluoranthene	19.4	13	3.2	ug/kg	
191-24-2	Benzo(g,h,i)perylene	40.2	13	3.2	ug/kg	
207-08-9	Benzo(k)fluoranthene	7.3	13	3.2	ug/kg	J
218-01-9	Chrysene	85.8	13	3.2	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	12.6	13	3.2	ug/kg	J
206-44-0	Fluoranthene	ND	65	16	ug/kg	
86-73-7	Fluorene	ND	65	26	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	9.3	13	3.2	ug/kg	J
90-12-0	1-Methylnaphthalene	ND	65	26	ug/kg	
91-57-6	2-Methylnaphthalene	ND	65	26	ug/kg	
91-20-3	Naphthalene	ND	65	26	ug/kg	
85-01-8	Phenanthrene	ND	65	16	ug/kg	
129-00-0	Pyrene	30.9	65	16	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		40-105%
321-60-8	2-Fluorobiphenyl	80%		43-107%
1718-51-0	Terphenyl-d14	99%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E5-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-18	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075784.D	1	09/12/16	AFL	n/a	n/a	F:GUV4034
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.53 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.5	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		56-149%
98-08-8	aaa-Trifluorotoluene	95%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-18	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379397.D	10	09/15/16	AFL	09/12/16	F:OP61829	F:GTT1862
Run #2							

	Initial Weight	Final Volume
Run #1	14.8 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	17	5.1	ug/kg	
319-84-6	alpha-BHC	ND	17	5.2	ug/kg	
319-85-7	beta-BHC	ND	17	5.2	ug/kg	
319-86-8	delta-BHC	ND	17	4.9	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	17	5.2	ug/kg	
12789-03-6	Chlordane	ND	170	68	ug/kg	
60-57-1	Dieldrin	ND	17	6.4	ug/kg	
72-54-8	4,4'-DDD	22.6	34	5.8	ug/kg	J
72-55-9	4,4'-DDE	ND	34	5.4	ug/kg	
50-29-3	4,4'-DDT	33.6	34	6.6	ug/kg	J
72-20-8	Endrin	ND	34	6.3	ug/kg	
1031-07-8	Endosulfan sulfate	ND	34	6.3	ug/kg	
7421-93-4	Endrin aldehyde	ND	34	6.3	ug/kg	
959-98-8	Endosulfan-I	ND	17	4.9	ug/kg	
33213-65-9	Endosulfan-II	ND	17	6.3	ug/kg	
76-44-8	Heptachlor	ND	17	5.7	ug/kg	
1024-57-3	Heptachlor epoxide	ND	17	5.9	ug/kg	
72-43-5	Methoxychlor	ND	34	8.7	ug/kg	
8001-35-2	Toxaphene	ND	840	340	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	96%		50-122%
2051-24-3	Decachlorobiphenyl	78%		50-133%

(a) All hits confirmed by dual column analysis. Dilution required due to matrix interference. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-18	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138452.D	5	09/14/16	AFL	09/12/16	F:OP61830	F:GST3294
Run #2							

	Initial Weight	Final Volume
Run #1	14.8 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	84	34	ug/kg	
11104-28-2	Aroclor 1221	ND	84	43	ug/kg	
11141-16-5	Aroclor 1232	ND	84	42	ug/kg	
53469-21-9	Aroclor 1242	ND	84	34	ug/kg	
12672-29-6	Aroclor 1248	ND	84	34	ug/kg	
11097-69-1	Aroclor 1254	523	84	40	ug/kg	
11096-82-5	Aroclor 1260	ND	84	34	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	102%		44-126%
2051-24-3	Decachlorobiphenyl	105%		41-145%

(a) All hits confirmed by dual column analysis. Analysis performed at SGS Accutest, Orlando FL.

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 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E5-1	
Lab Sample ID:	C47015-18	Date Sampled: 09/06/16
Matrix:	SO - Soil	Date Received: 09/08/16
Method:	SW846 8015C SW846 3550C	Percent Solids: n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002665.D	5	09/15/16	AFL	09/12/16	F:OP61833	F:GJR98
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	88.3	25	13	mg/kg	
	TPH (> C28-C40)	218	25	13	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-18	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 3.3	3.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Arsenic ^a	3.8	1.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Barium ^a	364	33	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Beryllium ^a	< 0.83	0.83	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cadmium ^a	< 0.66	0.66	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Chromium ^a	66.6	1.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cobalt ^a	14.7	8.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Copper ^a	33.1	4.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Lead ^a	15.7	3.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Mercury ^b	0.090	0.039	mg/kg	1	09/12/16	09/12/16	AFL SW846 7471B ¹	SW846 7471B ⁴
Molybdenum ^a	< 8.3	8.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Nickel ^a	72.5	6.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Selenium ^a	< 3.3	3.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Silver ^a	< 1.7	1.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Thallium ^a	< 1.7	1.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Vanadium ^a	60.9	8.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Zinc ^a	61.9	3.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: F:MA13398

(2) Instrument QC Batch: F:MA13399

(3) Prep QC Batch: F:MP30813

(4) Prep QC Batch: F:MP30816

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E5-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-19	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	F0079486.D	1	09/10/16	AFL	n/a	n/a	F:VF2731
Run #2							

	Initial Weight	Final Volume
Run #1	5.37 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	47	9.5	ug/kg	
71-43-2	Benzene	ND	4.7	1.2	ug/kg	
108-86-1	Bromobenzene	ND	4.7	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	4.7	1.0	ug/kg	
75-27-4	Bromodichloromethane	ND	4.7	0.93	ug/kg	
75-25-2	Bromoform	ND	4.7	0.93	ug/kg	
78-93-3	2-Butanone (MEK)	ND	23	8.5	ug/kg	
104-51-8	n-Butylbenzene	ND	4.7	0.93	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.7	0.93	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.7	0.93	ug/kg	
56-23-5	Carbon Tetrachloride	ND	4.7	1.7	ug/kg	
108-90-7	Chlorobenzene	ND	4.7	0.93	ug/kg	
75-00-3	Chloroethane	ND	4.7	1.9	ug/kg	
67-66-3	Chloroform	ND	4.7	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.7	0.93	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.7	0.93	ug/kg	
124-48-1	Dibromochloromethane	ND	4.7	0.93	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.7	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.7	0.93	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.7	2.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.93	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.93	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.95	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.7	1.6	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.7	0.93	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.7	0.93	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.7	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.7	1.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.7	1.5	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.7	0.93	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.7	0.93	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.7	1.2	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-19	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	4.7	1.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.7	0.93	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	4.7	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	4.7	1.0	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	4.7	1.2	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.7	2.0	ug/kg	
591-78-6	2-Hexanone	ND	23	8.1	ug/kg	
98-82-8	Isopropylbenzene	ND	4.7	1.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.7	0.93	ug/kg	
74-83-9	Methyl Bromide	ND	4.7	2.4	ug/kg	
74-87-3	Methyl Chloride	ND	4.7	2.2	ug/kg	
74-95-3	Methylene Bromide	ND	4.7	1.7	ug/kg	
75-09-2	Methylene Chloride ^b	6.5	9.3	3.7	ug/kg	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	23	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.7	1.0	ug/kg	
91-20-3	Naphthalene	ND	4.7	1.9	ug/kg	
103-65-1	n-Propylbenzene	ND	4.7	1.2	ug/kg	
100-42-5	Styrene	ND	4.7	0.93	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.7	1.3	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	47	13	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.7	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.7	2.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.7	1.2	ug/kg	
108-88-3	Toluene	ND	4.7	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.7	1.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	1.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.7	0.93	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.7	1.7	ug/kg	
79-01-6	Trichloroethylene	ND	4.7	1.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.7	1.7	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.7	1.5	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.7	0.93	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.7	0.93	ug/kg	
75-01-4	Vinyl Chloride	ND	4.7	1.6	ug/kg	
1330-20-7	Xylene (total)	ND	14	2.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		75-124%
17060-07-0	1,2-Dichloroethane-D4	126%		72-135%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-19	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	93%		75-126%
460-00-4	4-Bromofluorobenzene	103%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

(b) Suspected laboratory contaminant.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-19	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X048990.D	1	09/12/16	AFL	09/09/16	F:OP61812	F:SX2120
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	21	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine ^b	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	19	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-19	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	72%		40-102%
4165-62-2	Phenol-d5	80%		41-100%
118-79-6	2,4,6-Tribromophenol	75%		42-108%
4165-60-0	Nitrobenzene-d5	64%		40-105%
321-60-8	2-Fluorobiphenyl	69%		43-107%
1718-51-0	Terphenyl-d14	89%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated ICV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-19	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094940.D	1	09/13/16	AFL	09/10/16	F:OP61814	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	65	26	ug/kg	
208-96-8	Acenaphthylene	ND	65	26	ug/kg	
120-12-7	Anthracene	ND	65	16	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.3	ug/kg	
218-01-9	Chrysene	ND	13	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.3	ug/kg	
206-44-0	Fluoranthene	ND	65	16	ug/kg	
86-73-7	Fluorene	ND	65	26	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.3	ug/kg	
90-12-0	1-Methylnaphthalene	ND	65	26	ug/kg	
91-57-6	2-Methylnaphthalene	ND	65	26	ug/kg	
91-20-3	Naphthalene	ND	65	26	ug/kg	
85-01-8	Phenanthrene	ND	65	16	ug/kg	
129-00-0	Pyrene	ND	65	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	86%		40-105%
321-60-8	2-Fluorobiphenyl	85%		43-107%
1718-51-0	Terphenyl-d14	98%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E5-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-19	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075785.D	1	09/12/16	AFL	n/a	n/a	F:GUV4034
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.22 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	4.8	2.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		56-149%
98-08-8	aaa-Trifluorotoluene	95%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-19	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379398.D	5	09/15/16	AFL	09/12/16	F:OP61829	F:GTT1862
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	8.3	2.5	ug/kg	
319-84-6	alpha-BHC	ND	8.3	2.5	ug/kg	
319-85-7	beta-BHC	ND	8.3	2.5	ug/kg	
319-86-8	delta-BHC	ND	8.3	2.4	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	8.3	2.5	ug/kg	
12789-03-6	Chlordane	ND	83	33	ug/kg	
60-57-1	Dieldrin	5.5	8.3	3.1	ug/kg	J
72-54-8	4,4'-DDD	ND	17	2.8	ug/kg	
72-55-9	4,4'-DDE	24.7	17	2.7	ug/kg	
50-29-3	4,4'-DDT	8.4	17	3.2	ug/kg	J
72-20-8	Endrin	ND	17	3.1	ug/kg	
1031-07-8	Endosulfan sulfate	ND	17	3.1	ug/kg	
7421-93-4	Endrin aldehyde	ND	17	3.1	ug/kg	
959-98-8	Endosulfan-I	ND	8.3	2.4	ug/kg	
33213-65-9	Endosulfan-II	ND	8.3	3.1	ug/kg	
76-44-8	Heptachlor	ND	8.3	2.8	ug/kg	
1024-57-3	Heptachlor epoxide	ND	8.3	2.9	ug/kg	
72-43-5	Methoxychlor	ND	17	4.3	ug/kg	
8001-35-2	Toxaphene	ND	410	170	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%		50-122%
2051-24-3	Decachlorobiphenyl	86%		50-133%

(a) All hits confirmed by dual column analysis. Dilution required due to matrix interference. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-19	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138378.D	1	09/13/16	AFL	09/12/16	F:OP61830	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.6	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.4	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.6	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.6	ug/kg	
11097-69-1	Aroclor 1254	ND	17	7.9	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%		44-126%
2051-24-3	Decachlorobiphenyl	99%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E5-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-19	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002666.D	1	09/15/16	AFL	09/12/16	F:OP61833	F:GJR98
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	3.02	5.0	2.5	mg/kg	J
	TPH (> C28-C40)	10.8	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-19	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 4.6	4.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Arsenic ^a	4.1	2.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Barium ^a	158	46	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Beryllium ^a	< 1.1	1.1	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cadmium ^a	< 0.92	0.92	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Chromium ^a	74.1	2.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cobalt ^a	16.5	11	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Copper ^a	33.5	5.7	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Lead ^a	14.4	4.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Mercury ^b	0.048	0.038	mg/kg	1	09/12/16	09/12/16	AFL SW846 7471B ¹	SW846 7471B ⁴
Molybdenum ^a	< 11	11	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Nickel ^a	86.1	9.2	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Selenium ^a	< 4.6	4.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Silver ^a	< 2.3	2.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Thallium ^a	< 2.3	2.3	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Vanadium ^a	59.6	11	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Zinc ^a	64.6	4.6	mg/kg	5	09/09/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: F:MA13398

(2) Instrument QC Batch: F:MA13399

(3) Prep QC Batch: F:MP30813

(4) Prep QC Batch: F:MP30816

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E5-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-20	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	F0079487.D	1	09/10/16	AFL	n/a	n/a	F:VF2731
Run #2							

	Initial Weight	Final Volume
Run #1	5.19 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	48	9.8	ug/kg	
71-43-2	Benzene	ND	4.8	1.2	ug/kg	
108-86-1	Bromobenzene	ND	4.8	1.2	ug/kg	
74-97-5	Bromochloromethane	ND	4.8	1.1	ug/kg	
75-27-4	Bromodichloromethane	ND	4.8	0.96	ug/kg	
75-25-2	Bromoform	ND	4.8	0.96	ug/kg	
78-93-3	2-Butanone (MEK)	ND	24	8.7	ug/kg	
104-51-8	n-Butylbenzene	ND	4.8	0.96	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.8	0.96	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.8	0.96	ug/kg	
56-23-5	Carbon Tetrachloride	ND	4.8	1.7	ug/kg	
108-90-7	Chlorobenzene	ND	4.8	0.96	ug/kg	
75-00-3	Chloroethane	ND	4.8	1.9	ug/kg	
67-66-3	Chloroform	ND	4.8	1.2	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.8	0.96	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.8	0.96	ug/kg	
124-48-1	Dibromochloromethane	ND	4.8	0.96	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.8	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.8	0.96	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.8	2.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.96	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.96	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.98	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.8	1.6	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.8	0.96	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.8	0.96	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.8	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.8	1.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.8	1.5	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.8	0.96	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.8	0.96	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.8	1.2	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-20	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	4.8	1.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.8	0.96	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	4.8	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	4.8	1.1	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	4.8	1.2	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.8	2.1	ug/kg	
591-78-6	2-Hexanone	ND	24	8.4	ug/kg	
98-82-8	Isopropylbenzene	ND	4.8	1.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.8	0.96	ug/kg	
74-83-9	Methyl Bromide	ND	4.8	2.5	ug/kg	
74-87-3	Methyl Chloride	ND	4.8	2.3	ug/kg	
74-95-3	Methylene Bromide	ND	4.8	1.8	ug/kg	
75-09-2	Methylene Chloride ^b	8.6	9.6	3.9	ug/kg	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	24	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.8	1.1	ug/kg	
91-20-3	Naphthalene	ND	4.8	1.9	ug/kg	
103-65-1	n-Propylbenzene	ND	4.8	1.2	ug/kg	
100-42-5	Styrene	ND	4.8	0.96	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.8	1.3	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	48	13	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.8	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.8	2.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.8	1.3	ug/kg	
108-88-3	Toluene	ND	4.8	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.8	1.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	1.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.8	0.96	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.8	1.7	ug/kg	
79-01-6	Trichloroethylene	ND	4.8	1.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.8	1.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.8	1.6	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.8	0.96	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.8	0.96	ug/kg	
75-01-4	Vinyl Chloride	ND	4.8	1.6	ug/kg	
1330-20-7	Xylene (total)	ND	14	2.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	123%		75-124%
17060-07-0	1,2-Dichloroethane-D4	132%		72-135%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-20	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	95%		75-126%
460-00-4	4-Bromofluorobenzene	91%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

(b) Suspected laboratory contaminant.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-20	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X048991.D	1	09/12/16	AFL	09/09/16	F:OP61812	F:SX2120
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	820	160	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	160	25	ug/kg	
95-57-8	2-Chlorophenol	ND	160	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	820	160	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	66	ug/kg	
95-48-7	2-Methylphenol	ND	160	18	ug/kg	
	3&4-Methylphenol	ND	160	39	ug/kg	
88-75-5	2-Nitrophenol	ND	160	20	ug/kg	
100-02-7	4-Nitrophenol	ND	820	130	ug/kg	
87-86-5	Pentachlorophenol	ND	820	130	ug/kg	
108-95-2	Phenol	ND	160	19	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	20	ug/kg	
62-53-3	Aniline	ND	160	33	ug/kg	
92-87-5	Benzidine ^b	ND	1600	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	160	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	160	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	160	33	ug/kg	
86-74-8	Carbazole	ND	160	19	ug/kg	
106-47-8	4-Chloroaniline	ND	160	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	160	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	160	29	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	160	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	160	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	160	21	ug/kg	
132-64-9	Dibenzofuran	ND	160	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	160	16	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	160	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	160	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	160	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-20	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	160	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	160	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	160	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	160	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	160	27	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	160	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	160	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	160	33	ug/kg	
67-72-1	Hexachloroethane	ND	160	19	ug/kg	
78-59-1	Isophorone	ND	160	17	ug/kg	
88-74-4	2-Nitroaniline	ND	160	28	ug/kg	
99-09-2	3-Nitroaniline	ND	160	28	ug/kg	
100-01-6	4-Nitroaniline	ND	160	28	ug/kg	
98-95-3	Nitrobenzene	ND	160	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	160	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	160	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	31	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	160	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	72%		40-102%
4165-62-2	Phenol-d5	78%		41-100%
118-79-6	2,4,6-Tribromophenol	70%		42-108%
4165-60-0	Nitrobenzene-d5	71%		40-105%
321-60-8	2-Fluorobiphenyl	74%		43-107%
1718-51-0	Terphenyl-d14	85%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated ICV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-20	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094941.D	1	09/13/16	AFL	09/10/16	F:OP61814	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	14.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	68	27	ug/kg	
208-96-8	Acenaphthylene	ND	68	27	ug/kg	
120-12-7	Anthracene	ND	68	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	14	3.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	14	3.4	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	14	3.4	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	14	3.4	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	14	3.4	ug/kg	
218-01-9	Chrysene	ND	14	3.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	14	3.4	ug/kg	
206-44-0	Fluoranthene	ND	68	17	ug/kg	
86-73-7	Fluorene	ND	68	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	14	3.4	ug/kg	
90-12-0	1-Methylnaphthalene	ND	68	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	68	27	ug/kg	
91-20-3	Naphthalene	ND	68	27	ug/kg	
85-01-8	Phenanthrene	ND	68	17	ug/kg	
129-00-0	Pyrene	ND	68	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		40-105%
321-60-8	2-Fluorobiphenyl	83%		43-107%
1718-51-0	Terphenyl-d14	94%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E5-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-20	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075786.D	1	09/12/16	AFL	n/a	n/a	F:GUV4034
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.97 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	4.2	2.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		56-149%
98-08-8	aaa-Trifluorotoluene	95%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-20	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379375.D	1	09/14/16	AFL	09/12/16	F:OP61829	F:GTT1861
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin ^b	ND	1.7	0.50	ug/kg	
319-84-6	alpha-BHC ^b	ND	1.7	0.51	ug/kg	
319-85-7	beta-BHC ^b	ND	1.7	0.51	ug/kg	
319-86-8	delta-BHC ^b	ND	1.7	0.48	ug/kg	
58-89-9	gamma-BHC (Lindane) ^b	ND	1.7	0.51	ug/kg	
12789-03-6	Chlordane	ND	17	6.6	ug/kg	
60-57-1	Dieldrin	ND	1.7	0.62	ug/kg	
72-54-8	4,4' -DDD	ND	3.3	0.57	ug/kg	
72-55-9	4,4' -DDE	ND	3.3	0.53	ug/kg	
50-29-3	4,4' -DDT	ND	3.3	0.65	ug/kg	
72-20-8	Endrin	ND	3.3	0.62	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.62	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	0.62	ug/kg	
959-98-8	Endosulfan-I ^b	ND	1.7	0.48	ug/kg	
33213-65-9	Endosulfan-II	ND	1.7	0.61	ug/kg	
76-44-8	Heptachlor ^b	ND	1.7	0.56	ug/kg	
1024-57-3	Heptachlor epoxide ^b	ND	1.7	0.58	ug/kg	
72-43-5	Methoxychlor	ND	3.3	0.85	ug/kg	
8001-35-2	Toxaphene	ND	83	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	129% ^c		50-122%
2051-24-3	Decachlorobiphenyl	77%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated CCV outside control limits.

(c) Outside control limits. However, Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-20	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138379.D	1	09/13/16	AFL	09/12/16	F:OP61830	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.6	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.4	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.6	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.6	ug/kg	
11097-69-1	Aroclor 1254	ND	17	7.9	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%		44-126%
2051-24-3	Decachlorobiphenyl	104%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E5-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-20	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002667.D	1	09/15/16	AFL	09/12/16	F:OP61833	F:GJR98
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	5.0	2.5	mg/kg	
	TPH (> C28-C40)	3.77	5.0	2.5	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	67%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E5-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-20	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 4.5	4.5	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Arsenic ^a	2.9	2.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Barium ^a	136	45	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Beryllium ^a	< 1.1	1.1	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cadmium ^a	< 0.89	0.89	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Chromium ^a	73.2	2.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Cobalt ^a	16.9	11	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Copper ^a	33.3	5.6	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Lead ^a	8.1	4.5	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Mercury ^b	0.045	0.037	mg/kg	1	09/12/16	09/12/16	AFL SW846 7471B ¹	SW846 7471B ⁴
Molybdenum ^a	< 11	11	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Nickel ^a	86.9	8.9	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Selenium ^a	< 4.5	4.5	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Silver ^a	< 2.2	2.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Thallium ^a	< 2.2	2.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Vanadium ^a	52.2	11	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³
Zinc ^a	52.9	4.5	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: F:MA13398

(2) Instrument QC Batch: F:MA13399

(3) Prep QC Batch: F:MP30815

(4) Prep QC Batch: F:MP30816

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E6-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-21	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	F0079488.D	1	09/10/16	AFL	n/a	n/a	F:VF2731
Run #2							

	Initial Weight	Final Volume
Run #1	4.63 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	54	11	ug/kg	
71-43-2	Benzene	ND	5.4	1.4	ug/kg	
108-86-1	Bromobenzene	ND	5.4	1.3	ug/kg	
74-97-5	Bromochloromethane	ND	5.4	1.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.4	1.1	ug/kg	
75-25-2	Bromoform	ND	5.4	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	27	9.8	ug/kg	
104-51-8	n-Butylbenzene	ND	5.4	1.1	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.4	1.1	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.4	1.1	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.4	1.9	ug/kg	
108-90-7	Chlorobenzene	ND	5.4	1.1	ug/kg	
75-00-3	Chloroethane	ND	5.4	2.2	ug/kg	
67-66-3	Chloroform	ND	5.4	1.3	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.4	1.1	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.4	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.4	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.4	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.4	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.4	2.7	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.4	1.1	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.4	1.1	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.4	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.4	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.4	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.4	1.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.4	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.4	1.6	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.4	1.7	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.4	1.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.4	1.1	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.4	1.4	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-21	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	5.4	2.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.4	1.1	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	5.4	1.3	ug/kg	
100-41-4	Ethylbenzene	ND	5.4	1.2	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	5.4	1.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.4	2.4	ug/kg	
591-78-6	2-Hexanone	ND	27	9.4	ug/kg	
98-82-8	Isopropylbenzene	ND	5.4	1.5	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.4	1.1	ug/kg	
74-83-9	Methyl Bromide	ND	5.4	2.8	ug/kg	
74-87-3	Methyl Chloride	ND	5.4	2.6	ug/kg	
74-95-3	Methylene Bromide	ND	5.4	2.0	ug/kg	
75-09-2	Methylene Chloride ^b	13.4	11	4.3	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	27	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.4	1.2	ug/kg	
91-20-3	Naphthalene	ND	5.4	2.2	ug/kg	
103-65-1	n-Propylbenzene	ND	5.4	1.3	ug/kg	
100-42-5	Styrene	ND	5.4	1.1	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.4	1.5	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	54	15	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.4	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.4	2.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.4	1.4	ug/kg	
108-88-3	Toluene	ND	5.4	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	2.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	1.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.4	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.4	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.4	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.4	2.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.4	1.8	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.4	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.4	1.1	ug/kg	
75-01-4	Vinyl Chloride	ND	5.4	1.8	ug/kg	
1330-20-7	Xylene (total)	ND	16	3.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	124%		75-124%
17060-07-0	1,2-Dichloroethane-D4	128%		72-135%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-21	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	97%		75-126%
460-00-4	4-Bromofluorobenzene	97%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

(b) Suspected laboratory contaminant.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-21	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X049006.D	1	09/13/16	AFL	09/12/16	F:OP61834	F:SX2121
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	66	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	20	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	19	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-21	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	27	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%		40-102%
4165-62-2	Phenol-d5	65%		41-100%
118-79-6	2,4,6-Tribromophenol	106%		42-108%
4165-60-0	Nitrobenzene-d5	69%		40-105%
321-60-8	2-Fluorobiphenyl	76%		43-107%
1718-51-0	Terphenyl-d14	88%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-21	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094943.D	1	09/13/16	AFL	09/12/16	F:OP61828	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	14.9 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	67	27	ug/kg	
208-96-8	Acenaphthylene	ND	67	27	ug/kg	
120-12-7	Anthracene	ND	67	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.4	ug/kg	
205-99-2	Benzo(b)fluoranthene	4.0	13	3.4	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	13	3.4	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.4	ug/kg	
218-01-9	Chrysene	4.9	13	3.4	ug/kg	J
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.4	ug/kg	
206-44-0	Fluoranthene	ND	67	17	ug/kg	
86-73-7	Fluorene	ND	67	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.4	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	27	ug/kg	
91-20-3	Naphthalene	ND	67	27	ug/kg	
85-01-8	Phenanthrene	ND	67	17	ug/kg	
129-00-0	Pyrene	ND	67	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	95%		40-105%
321-60-8	2-Fluorobiphenyl	89%		43-107%
1718-51-0	Terphenyl-d14	92%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E6-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-21	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075787.D	1	09/12/16	AFL	n/a	n/a	F:GUV4034
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.53 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.5	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		56-149%
98-08-8	aaa-Trifluorotoluene	94%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-21	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379393.D	10	09/15/16	AFL	09/12/16	F:OP61829	F:GTT1862
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	17	5.1	ug/kg	
319-84-6	alpha-BHC	ND	17	5.1	ug/kg	
319-85-7	beta-BHC	ND	17	5.1	ug/kg	
319-86-8	delta-BHC	ND	17	4.9	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	17	5.1	ug/kg	
12789-03-6	Chlordane	ND	170	67	ug/kg	
60-57-1	Dieldrin	32.2	17	6.3	ug/kg	
72-54-8	4,4'-DDD	29.5	33	5.7	ug/kg	J
72-55-9	4,4'-DDE	140	33	5.4	ug/kg	
50-29-3	4,4'-DDT	70.2	33	6.5	ug/kg	
72-20-8	Endrin	ND	33	6.2	ug/kg	
1031-07-8	Endosulfan sulfate	ND	33	6.2	ug/kg	
7421-93-4	Endrin aldehyde	ND	33	6.2	ug/kg	
959-98-8	Endosulfan-I	ND	17	4.9	ug/kg	
33213-65-9	Endosulfan-II	ND	17	6.2	ug/kg	
76-44-8	Heptachlor	ND	17	5.7	ug/kg	
1024-57-3	Heptachlor epoxide	ND	17	5.8	ug/kg	
72-43-5	Methoxychlor	ND	33	8.6	ug/kg	
8001-35-2	Toxaphene	ND	830	330	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		50-122%
2051-24-3	Decachlorobiphenyl	99%		50-133%

(a) All hits confirmed by dual column analysis. Dilution required due to matrix interference. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-21	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138453.D	4	09/14/16	AFL	09/12/16	F:OP61830	F:GST3294
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	67	27	ug/kg	
11104-28-2	Aroclor 1221	ND	67	34	ug/kg	
11141-16-5	Aroclor 1232	ND	67	33	ug/kg	
53469-21-9	Aroclor 1242	ND	67	27	ug/kg	
12672-29-6	Aroclor 1248	ND	67	27	ug/kg	
11097-69-1	Aroclor 1254	ND	67	67	ug/kg	
11096-82-5	Aroclor 1260	ND	67	27	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	107%		44-126%
2051-24-3	Decachlorobiphenyl	110%		41-145%

(a) Dilution required due to matrix interference. Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E6-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-21	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002668.D	1	09/15/16	AFL	09/12/16	F:OP61833	F:GJR98
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	6.24	5.0	2.5	mg/kg	
	TPH (> C28-C40)	23.9	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-21	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 3.6	3.6	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Arsenic ^a	3.5	1.8	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Barium ^a	135	36	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Beryllium ^a	< 0.91	0.91	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cadmium ^a	< 0.73	0.73	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Chromium ^a	77.3	1.8	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cobalt ^a	16.5	9.1	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Copper ^a	35.1	4.6	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Lead ^a	15.1	3.6	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Mercury ^b	0.13	0.038	mg/kg	1	09/13/16	09/13/16	AFL SW846 7471B ²	SW846 7471B ⁴
Molybdenum ^a	< 9.1	9.1	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Nickel ^a	82.6	7.3	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Selenium ^a	< 3.6	3.6	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Silver ^a	< 1.8	1.8	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Thallium ^a	< 1.8	1.8	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Vanadium ^a	60.3	9.1	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Zinc ^a	58.0	3.6	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³

(1) Instrument QC Batch: F:MA13399

(2) Instrument QC Batch: F:MA13400

(3) Prep QC Batch: F:MP30815

(4) Prep QC Batch: F:MP30820

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E6-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-22	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0117999.D	1	09/12/16	AFL	n/a	n/a	F:VC4681
Run #2							

	Initial Weight	Final Volume
Run #1	4.08 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	61	12	ug/kg	
71-43-2	Benzene	ND	6.1	1.5	ug/kg	
108-86-1	Bromobenzene	ND	6.1	1.5	ug/kg	
74-97-5	Bromochloromethane	ND	6.1	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	6.1	1.2	ug/kg	
75-25-2	Bromoform	ND	6.1	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	31	11	ug/kg	
104-51-8	n-Butylbenzene	ND	6.1	1.2	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.1	1.2	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.1	1.2	ug/kg	
56-23-5	Carbon Tetrachloride	ND	6.1	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	6.1	1.2	ug/kg	
75-00-3	Chloroethane	ND	6.1	2.5	ug/kg	
67-66-3	Chloroform	ND	6.1	1.5	ug/kg	
95-49-8	o-Chlorotoluene	ND	6.1	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	6.1	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	6.1	1.2	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.1	2.7	ug/kg	
106-93-4	1,2-Dibromoethane	ND	6.1	1.2	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.1	3.0	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.1	1.2	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.1	1.2	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.1	1.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.1	2.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.1	1.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	6.1	1.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.1	1.5	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.1	1.9	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.1	1.9	ug/kg	
142-28-9	1,3-Dichloropropane	ND	6.1	1.2	ug/kg	
594-20-7	2,2-Dichloropropane	ND	6.1	1.2	ug/kg	
563-58-6	1,1-Dichloropropene	ND	6.1	1.6	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-22	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	6.1	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.1	1.2	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	6.1	1.5	ug/kg	
100-41-4	Ethylbenzene	ND	6.1	1.3	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	6.1	1.6	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.1	2.7	ug/kg	
591-78-6	2-Hexanone	ND	31	11	ug/kg	
98-82-8	Isopropylbenzene	ND	6.1	1.7	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.1	1.2	ug/kg	
74-83-9	Methyl Bromide	ND	6.1	3.2	ug/kg	
74-87-3	Methyl Chloride	ND	6.1	2.9	ug/kg	
74-95-3	Methylene Bromide	ND	6.1	2.2	ug/kg	
75-09-2	Methylene Chloride ^b	12.4	12	4.9	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	31	13	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.1	1.4	ug/kg	
91-20-3	Naphthalene	ND	6.1	2.5	ug/kg	
103-65-1	n-Propylbenzene	ND	6.1	1.5	ug/kg	
100-42-5	Styrene	ND	6.1	1.2	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	6.1	1.7	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	61	17	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.1	1.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.1	2.7	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.1	1.6	ug/kg	
108-88-3	Toluene	ND	6.1	1.4	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.1	2.4	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.1	1.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.1	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.1	2.2	ug/kg	
79-01-6	Trichloroethylene	ND	6.1	1.4	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.1	2.3	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.1	2.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.1	1.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.1	1.2	ug/kg	
75-01-4	Vinyl Chloride	ND	6.1	2.0	ug/kg	
1330-20-7	Xylene (total)	ND	18	3.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		75-124%
17060-07-0	1,2-Dichloroethane-D4	105%		72-135%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-22	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	96%		75-126%
460-00-4	4-Bromofluorobenzene	101%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

(b) Suspected laboratory contaminant.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-22	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X049007.D	1	09/13/16	AFL	09/12/16	F:OP61834	F:SX2121
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	21	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	19	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-22	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	70%		40-102%
4165-62-2	Phenol-d5	73%		41-100%
118-79-6	2,4,6-Tribromophenol	114% ^b		42-108%
4165-60-0	Nitrobenzene-d5	71%		40-105%
321-60-8	2-Fluorobiphenyl	77%		43-107%
1718-51-0	Terphenyl-d14	88%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Outside control limits. However, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-22	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094944.D	1	09/13/16	AFL	09/12/16	F:OP61828	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	14.7 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	68	27	ug/kg	
208-96-8	Acenaphthylene	ND	68	27	ug/kg	
120-12-7	Anthracene	ND	68	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	14	3.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	14	3.4	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	14	3.4	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	14	3.4	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	14	3.4	ug/kg	
218-01-9	Chrysene	ND	14	3.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	14	3.4	ug/kg	
206-44-0	Fluoranthene	ND	68	17	ug/kg	
86-73-7	Fluorene	ND	68	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	14	3.4	ug/kg	
90-12-0	1-Methylnaphthalene	ND	68	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	68	27	ug/kg	
91-20-3	Naphthalene	ND	68	27	ug/kg	
85-01-8	Phenanthrene	ND	68	17	ug/kg	
129-00-0	Pyrene	ND	68	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	94%		40-105%
321-60-8	2-Fluorobiphenyl	82%		43-107%
1718-51-0	Terphenyl-d14	96%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E6-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-22	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075819.D	1	09/13/16	AFL	n/a	n/a	F:GUV4035
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.76 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	4.3	2.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		56-149%
98-08-8	aaa-Trifluorotoluene	95%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-22	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379357.D	1	09/14/16	AFL	09/12/16	F:OP61829	F:GTT1861
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin ^b	ND	1.7	0.51	ug/kg	
319-84-6	alpha-BHC ^b	ND	1.7	0.51	ug/kg	
319-85-7	beta-BHC ^b	ND	1.7	0.51	ug/kg	
319-86-8	delta-BHC ^b	ND	1.7	0.49	ug/kg	
58-89-9	gamma-BHC (Lindane) ^b	ND	1.7	0.51	ug/kg	
12789-03-6	Chlordane	ND	17	6.7	ug/kg	
60-57-1	Dieldrin ^b	ND	1.7	0.63	ug/kg	
72-54-8	4,4' -DDD ^b	ND	3.3	0.57	ug/kg	
72-55-9	4,4' -DDE	ND	3.3	0.54	ug/kg	
50-29-3	4,4' -DDT	ND	3.3	0.65	ug/kg	
72-20-8	Endrin	ND	3.3	0.62	ug/kg	
1031-07-8	Endosulfan sulfate ^b	ND	3.3	0.62	ug/kg	
7421-93-4	Endrin aldehyde ^b	ND	3.3	0.62	ug/kg	
959-98-8	Endosulfan-I ^b	ND	1.7	0.49	ug/kg	
33213-65-9	Endosulfan-II ^b	ND	1.7	0.62	ug/kg	
76-44-8	Heptachlor ^b	ND	1.7	0.57	ug/kg	
1024-57-3	Heptachlor epoxide ^b	ND	1.7	0.58	ug/kg	
72-43-5	Methoxychlor	ND	3.3	0.86	ug/kg	
8001-35-2	Toxaphene	ND	83	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%		50-122%
2051-24-3	Decachlorobiphenyl	77%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated CCV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-22	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138381.D	1	09/13/16	AFL	09/12/16	F:OP61830	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.5	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	8.0	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		44-126%
2051-24-3	Decachlorobiphenyl	96%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E6-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-22	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002669.D	1	09/15/16	AFL	09/12/16	F:OP61833	F:GJR98
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	5.0	2.5	mg/kg	
	TPH (> C28-C40)	7.59	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-22	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 4.8	4.8	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Arsenic ^a	3.5	2.4	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Barium ^a	199	48	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Beryllium ^a	< 1.2	1.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cadmium ^a	< 0.96	0.96	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Chromium ^a	78.8	2.4	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cobalt ^a	18.1	12	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Copper ^a	37.0	6.0	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Lead ^a	9.0	4.8	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Mercury ^b	0.056	0.038	mg/kg	1	09/13/16	09/13/16	AFL SW846 7471B ²	SW846 7471B ⁴
Molybdenum ^a	< 12	12	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Nickel ^a	98.4	9.6	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Selenium ^a	< 4.8	4.8	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Silver ^a	< 2.4	2.4	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Thallium ^a	< 2.4	2.4	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Vanadium ^a	54.0	12	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Zinc ^a	57.1	4.8	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³

(1) Instrument QC Batch: F:MA13399

(2) Instrument QC Batch: F:MA13400

(3) Prep QC Batch: F:MP30815

(4) Prep QC Batch: F:MP30820

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E6-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-23	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0118000.D	1	09/12/16	AFL	n/a	n/a	F:VC4681
Run #2							

	Initial Weight	Final Volume
Run #1	5.32 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	47	9.6	ug/kg	
71-43-2	Benzene	ND	4.7	1.2	ug/kg	
108-86-1	Bromobenzene	ND	4.7	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	4.7	1.0	ug/kg	
75-27-4	Bromodichloromethane	ND	4.7	0.94	ug/kg	
75-25-2	Bromoform	ND	4.7	0.94	ug/kg	
78-93-3	2-Butanone (MEK)	ND	23	8.5	ug/kg	
104-51-8	n-Butylbenzene	ND	4.7	0.94	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.7	0.94	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.7	0.94	ug/kg	
56-23-5	Carbon Tetrachloride	ND	4.7	1.7	ug/kg	
108-90-7	Chlorobenzene	ND	4.7	0.94	ug/kg	
75-00-3	Chloroethane	ND	4.7	1.9	ug/kg	
67-66-3	Chloroform	ND	4.7	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.7	0.94	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.7	0.94	ug/kg	
124-48-1	Dibromochloromethane	ND	4.7	0.94	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.7	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.7	0.94	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.7	2.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.94	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.94	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.96	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.7	1.6	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.7	0.94	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.7	0.94	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.7	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.7	1.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.7	1.5	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.7	0.94	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.7	0.94	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.7	1.2	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-23	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	4.7	1.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.7	0.94	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	4.7	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	4.7	1.0	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	4.7	1.2	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.7	2.0	ug/kg	
591-78-6	2-Hexanone	ND	23	8.2	ug/kg	
98-82-8	Isopropylbenzene	ND	4.7	1.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.7	0.94	ug/kg	
74-83-9	Methyl Bromide	ND	4.7	2.4	ug/kg	
74-87-3	Methyl Chloride	ND	4.7	2.3	ug/kg	
74-95-3	Methylene Bromide	ND	4.7	1.7	ug/kg	
75-09-2	Methylene Chloride ^b	6.8	9.4	3.8	ug/kg	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	23	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.7	1.0	ug/kg	
91-20-3	Naphthalene	ND	4.7	1.9	ug/kg	
103-65-1	n-Propylbenzene	ND	4.7	1.2	ug/kg	
100-42-5	Styrene	ND	4.7	0.94	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.7	1.3	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	47	13	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.7	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.7	2.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.7	1.2	ug/kg	
108-88-3	Toluene	ND	4.7	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.7	1.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	1.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.7	0.94	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.7	1.7	ug/kg	
79-01-6	Trichloroethylene	ND	4.7	1.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.7	1.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.7	1.5	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.7	0.94	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.7	0.94	ug/kg	
75-01-4	Vinyl Chloride	ND	4.7	1.6	ug/kg	
1330-20-7	Xylene (total)	ND	14	2.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		75-124%
17060-07-0	1,2-Dichloroethane-D4	104%		72-135%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-23	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	93%		75-126%
460-00-4	4-Bromofluorobenzene	95%		71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

(b) Suspected laboratory contaminant.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-23	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X049008.D	1	09/13/16	AFL	09/12/16	F:OP61834	F:SX2121
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	21	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	19	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-23	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		40-102%
4165-62-2	Phenol-d5	67%		41-100%
118-79-6	2,4,6-Tribromophenol	111% ^b		42-108%
4165-60-0	Nitrobenzene-d5	69%		40-105%
321-60-8	2-Fluorobiphenyl	73%		43-107%
1718-51-0	Terphenyl-d14	84%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Outside control limits. However, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-23	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094945.D	1	09/13/16	AFL	09/12/16	F:OP61828	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	14.7 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	68	27	ug/kg	
208-96-8	Acenaphthylene	ND	68	27	ug/kg	
120-12-7	Anthracene	ND	68	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	14	3.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	14	3.4	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	14	3.4	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	14	3.4	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	14	3.4	ug/kg	
218-01-9	Chrysene	ND	14	3.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	14	3.4	ug/kg	
206-44-0	Fluoranthene	ND	68	17	ug/kg	
86-73-7	Fluorene	ND	68	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	14	3.4	ug/kg	
90-12-0	1-Methylnaphthalene	ND	68	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	68	27	ug/kg	
91-20-3	Naphthalene	ND	68	27	ug/kg	
85-01-8	Phenanthrene	ND	68	17	ug/kg	
129-00-0	Pyrene	ND	68	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	88%		40-105%
321-60-8	2-Fluorobiphenyl	90%		43-107%
1718-51-0	Terphenyl-d14	101%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.23
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Client Sample ID:	E6-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-23	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075820.D	1	09/13/16	AFL	n/a	n/a	F:GUV4035
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.32 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	4.7	2.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		56-149%
98-08-8	aaa-Trifluorotoluene	95%		66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-23	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379394.D	1	09/15/16	AFL	09/12/16	F:OP61829	F:GTT1862
Run #2							

	Initial Weight	Final Volume
Run #1	14.7 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.7	0.52	ug/kg	
319-84-6	alpha-BHC	ND	1.7	0.52	ug/kg	
319-85-7	beta-BHC	ND	1.7	0.52	ug/kg	
319-86-8	delta-BHC	ND	1.7	0.50	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.7	0.52	ug/kg	
12789-03-6	Chlordane	ND	17	6.8	ug/kg	
60-57-1	Dieldrin	ND	1.7	0.64	ug/kg	
72-54-8	4,4' -DDD	ND	3.4	0.59	ug/kg	
72-55-9	4,4' -DDE	ND	3.4	0.55	ug/kg	
50-29-3	4,4' -DDT	ND	3.4	0.67	ug/kg	
72-20-8	Endrin	ND	3.4	0.63	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.4	0.64	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.4	0.63	ug/kg	
959-98-8	Endosulfan-I	ND	1.7	0.50	ug/kg	
33213-65-9	Endosulfan-II	ND	1.7	0.63	ug/kg	
76-44-8	Heptachlor	ND	1.7	0.58	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.7	0.60	ug/kg	
72-43-5	Methoxychlor	ND	3.4	0.87	ug/kg	
8001-35-2	Toxaphene	ND	85	34	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		50-122%
2051-24-3	Decachlorobiphenyl	82%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-23	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138382.D	1	09/13/16	AFL	09/12/16	F:OP61830	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	14.7 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.8	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.7	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.5	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.8	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.8	ug/kg	
11097-69-1	Aroclor 1254	ND	17	8.1	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		44-126%
2051-24-3	Decachlorobiphenyl	92%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E6-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-23	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002670.D	1	09/15/16	AFL	09/12/16	F:OP61833	F:GJR98
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	5.0	2.5	mg/kg	
	TPH (> C28-C40)	3.42	5.0	2.5	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E6-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-23	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 4.2	4.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Arsenic ^a	2.4	2.1	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Barium ^a	135	42	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Beryllium ^a	< 1.1	1.1	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cadmium ^a	< 0.85	0.85	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Chromium ^a	82.3	2.1	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cobalt ^a	18.3	11	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Copper ^a	34.0	5.3	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Lead ^a	7.7	4.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Mercury ^b	0.047	0.037	mg/kg	1	09/13/16	09/13/16	AFL SW846 7471B ²	SW846 7471B ⁴
Molybdenum ^a	< 11	11	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Nickel ^a	81.8	8.5	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Selenium ^a	< 4.2	4.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Silver ^a	< 2.1	2.1	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Thallium ^a	< 2.1	2.1	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Vanadium ^a	63.9	11	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Zinc ^a	47.9	4.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³

(1) Instrument QC Batch: F:MA13399

(2) Instrument QC Batch: F:MA13400

(3) Prep QC Batch: F:MP30815

(4) Prep QC Batch: F:MP30820

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E7-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-24	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	F0079442.D	1	09/09/16	AFL	n/a	n/a	F:VF2730
Run #2							

	Initial Weight	Final Volume
Run #1	5.86 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	210	43	8.7	ug/kg	
71-43-2	Benzene	ND	4.3	1.1	ug/kg	
108-86-1	Bromobenzene	ND	4.3	1.0	ug/kg	
74-97-5	Bromochloromethane	ND	4.3	0.95	ug/kg	
75-27-4	Bromodichloromethane	ND	4.3	0.85	ug/kg	
75-25-2	Bromoform	ND	4.3	0.85	ug/kg	
78-93-3	2-Butanone (MEK)	45.9	21	7.7	ug/kg	
104-51-8	n-Butylbenzene	ND	4.3	0.85	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.3	0.85	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.3	0.85	ug/kg	
56-23-5	Carbon Tetrachloride	ND	4.3	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	4.3	0.85	ug/kg	
75-00-3	Chloroethane	ND	4.3	1.7	ug/kg	
67-66-3	Chloroform	ND	4.3	1.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.3	0.85	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.3	0.85	ug/kg	
124-48-1	Dibromochloromethane	ND	4.3	0.85	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.3	1.9	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.3	0.85	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.3	2.1	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.3	0.85	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.3	0.85	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.3	0.87	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.3	1.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.3	0.85	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.3	0.85	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.3	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.3	1.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.3	1.4	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.3	0.85	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.3	0.85	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.3	1.1	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-24	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	4.3	1.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.3	0.85	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	4.3	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	4.3	0.93	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	4.3	1.1	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.3	1.9	ug/kg	
591-78-6	2-Hexanone	ND	21	7.4	ug/kg	
98-82-8	Isopropylbenzene	ND	4.3	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.3	0.85	ug/kg	
74-83-9	Methyl Bromide	ND	4.3	2.2	ug/kg	
74-87-3	Methyl Chloride	ND	4.3	2.0	ug/kg	
74-95-3	Methylene Bromide	ND	4.3	1.6	ug/kg	
75-09-2	Methylene Chloride ^b	13.6	8.5	3.4	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	21	9.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.3	0.95	ug/kg	
91-20-3	Naphthalene	ND	4.3	1.7	ug/kg	
103-65-1	n-Propylbenzene	ND	4.3	1.1	ug/kg	
100-42-5	Styrene	ND	4.3	0.85	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.3	1.2	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	43	12	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.3	0.96	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.3	1.9	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.3	1.1	ug/kg	
108-88-3	Toluene	ND	4.3	0.96	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.3	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.3	1.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.3	0.85	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.3	1.5	ug/kg	
79-01-6	Trichloroethylene	ND	4.3	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.3	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.3	1.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.3	0.85	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.3	0.85	ug/kg	
75-01-4	Vinyl Chloride	ND	4.3	1.4	ug/kg	
1330-20-7	Xylene (total)	ND	13	2.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		75-124%
17060-07-0	1,2-Dichloroethane-D4	113%		72-135%

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-24	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	94%		75-126%
460-00-4	4-Bromofluorobenzene	113%		71-133%

(a) Soil vials were not received within 48 hours of sampling; results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

(b) Suspected laboratory contaminant.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-24	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X049009.D	1	09/13/16	AFL	09/12/16	F:OP61834	F:SX2121
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	21	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	19	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-24	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	60%		40-102%
4165-62-2	Phenol-d5	65%		41-100%
118-79-6	2,4,6-Tribromophenol	99%		42-108%
4165-60-0	Nitrobenzene-d5	61%		40-105%
321-60-8	2-Fluorobiphenyl	70%		43-107%
1718-51-0	Terphenyl-d14	82%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-24	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094946.D	1	09/13/16	AFL	09/12/16	F:OP61828	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	14.9 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	67	27	ug/kg	
208-96-8	Acenaphthylene	ND	67	27	ug/kg	
120-12-7	Anthracene	ND	67	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.4	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.4	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.4	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.4	ug/kg	
218-01-9	Chrysene	ND	13	3.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.4	ug/kg	
206-44-0	Fluoranthene	ND	67	17	ug/kg	
86-73-7	Fluorene	ND	67	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.4	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	27	ug/kg	
91-20-3	Naphthalene	ND	67	27	ug/kg	
85-01-8	Phenanthrene	ND	67	17	ug/kg	
129-00-0	Pyrene	ND	67	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	87%		40-105%
321-60-8	2-Fluorobiphenyl	86%		43-107%
1718-51-0	Terphenyl-d14	86%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E7-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-24	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075821.D	1	09/13/16	AFL	n/a	n/a	F:GUV4035
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	4.2	2.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		56-149%
98-08-8	aaa-Trifluorotoluene	94%		66-132%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-24	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379395.D	5	09/15/16	AFL	09/12/16	F:OP61829	F:GTT1862
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	8.3	2.5	ug/kg	
319-84-6	alpha-BHC	ND	8.3	2.6	ug/kg	
319-85-7	beta-BHC	ND	8.3	2.6	ug/kg	
319-86-8	delta-BHC	ND	8.3	2.4	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	8.3	2.6	ug/kg	
12789-03-6	Chlordane	ND	83	33	ug/kg	
60-57-1	Dieldrin	4.9	8.3	3.1	ug/kg	J
72-54-8	4,4'-DDD	ND	17	2.9	ug/kg	
72-55-9	4,4'-DDE	8.8	17	2.7	ug/kg	J
50-29-3	4,4'-DDT	ND	17	3.3	ug/kg	
72-20-8	Endrin	ND	17	3.1	ug/kg	
1031-07-8	Endosulfan sulfate	ND	17	3.1	ug/kg	
7421-93-4	Endrin aldehyde	ND	17	3.1	ug/kg	
959-98-8	Endosulfan-I	ND	8.3	2.4	ug/kg	
33213-65-9	Endosulfan-II	ND	8.3	3.1	ug/kg	
76-44-8	Heptachlor	ND	8.3	2.8	ug/kg	
1024-57-3	Heptachlor epoxide	ND	8.3	2.9	ug/kg	
72-43-5	Methoxychlor	ND	17	4.3	ug/kg	
8001-35-2	Toxaphene	ND	420	170	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		50-122%
2051-24-3	Decachlorobiphenyl	81%		50-133%

(a) All hits confirmed by dual column analysis. Dilution required due to matrix interference. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-24	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138383.D	1	09/13/16	AFL	09/12/16	F:OP61830	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.5	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	8.0	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%		44-126%
2051-24-3	Decachlorobiphenyl	91%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

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 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E7-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-24	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002671.D	1	09/15/16	AFL	09/12/16	F:OP61833	F:GJR98
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	10.1	5.0	2.5	mg/kg	
	TPH (> C28-C40)	29.7	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-24	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 4.7	4.7	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Arsenic ^a	< 2.4	2.4	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Barium ^a	156	47	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Beryllium ^a	< 1.2	1.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cadmium ^a	< 0.94	0.94	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Chromium ^a	69.0	2.4	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cobalt ^a	14.8	12	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Copper ^a	33.9	5.9	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Lead ^a	10.3	4.7	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Mercury ^b	0.048	0.038	mg/kg	1	09/13/16	09/13/16	AFL SW846 7471B ²	SW846 7471B ⁴
Molybdenum ^a	< 12	12	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Nickel ^a	82.5	9.4	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Selenium ^a	< 4.7	4.7	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Silver ^a	< 2.4	2.4	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Thallium ^a	< 2.4	2.4	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Vanadium ^a	51.2	12	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Zinc ^a	52.2	4.7	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³

(1) Instrument QC Batch: F:MA13399

(2) Instrument QC Batch: F:MA13400

(3) Prep QC Batch: F:MP30815

(4) Prep QC Batch: F:MP30820

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E7-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-25	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	F0079443.D	1	09/09/16	AFL	n/a	n/a	F:VF2730
Run #2							

	Initial Weight	Final Volume
Run #1	5.97 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	29.2	42	8.5	ug/kg	J
71-43-2	Benzene	ND	4.2	1.1	ug/kg	
108-86-1	Bromobenzene	ND	4.2	1.0	ug/kg	
74-97-5	Bromochloromethane	ND	4.2	0.93	ug/kg	
75-27-4	Bromodichloromethane	ND	4.2	0.84	ug/kg	
75-25-2	Bromoform	ND	4.2	0.84	ug/kg	
78-93-3	2-Butanone (MEK)	ND	21	7.6	ug/kg	
104-51-8	n-Butylbenzene	ND	4.2	0.84	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.2	0.84	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.2	0.84	ug/kg	
56-23-5	Carbon Tetrachloride	ND	4.2	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	4.2	0.84	ug/kg	
75-00-3	Chloroethane	ND	4.2	1.7	ug/kg	
67-66-3	Chloroform	ND	4.2	1.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.2	0.84	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.2	0.84	ug/kg	
124-48-1	Dibromochloromethane	ND	4.2	0.84	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.2	1.9	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.2	0.84	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.2	2.1	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.2	0.84	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.2	0.84	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.2	0.85	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.2	1.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.2	0.84	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.2	0.84	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.2	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.2	1.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.2	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.2	0.84	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.2	0.84	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.2	1.1	ug/kg	

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RL = Reporting Limit

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-25	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	4.2	1.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.2	0.84	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	4.2	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	4.2	0.91	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	4.2	1.1	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.2	1.8	ug/kg	
591-78-6	2-Hexanone	ND	21	7.3	ug/kg	
98-82-8	Isopropylbenzene	ND	4.2	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.2	0.84	ug/kg	
74-83-9	Methyl Bromide	ND	4.2	2.2	ug/kg	
74-87-3	Methyl Chloride	ND	4.2	2.0	ug/kg	
74-95-3	Methylene Bromide	ND	4.2	1.5	ug/kg	
75-09-2	Methylene Chloride ^b	8.5	8.4	3.4	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	21	9.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.2	0.93	ug/kg	
91-20-3	Naphthalene	ND	4.2	1.7	ug/kg	
103-65-1	n-Propylbenzene	ND	4.2	1.0	ug/kg	
100-42-5	Styrene	ND	4.2	0.84	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.2	1.1	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	42	11	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.2	0.94	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.2	1.9	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.2	1.1	ug/kg	
108-88-3	Toluene	ND	4.2	0.95	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.2	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.2	1.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.2	0.84	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.2	1.5	ug/kg	
79-01-6	Trichloroethylene	ND	4.2	0.98	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.2	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.2	1.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.2	0.84	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.2	0.84	ug/kg	
75-01-4	Vinyl Chloride	ND	4.2	1.4	ug/kg	
1330-20-7	Xylene (total)	ND	13	2.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%		75-124%
17060-07-0	1,2-Dichloroethane-D4	123%		72-135%

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J = Indicates an estimated value
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 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-25	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	94%		75-126%
460-00-4	4-Bromofluorobenzene	93%		71-133%

(a) Soil vials were not received within 48 hours of sampling; results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

(b) Suspected laboratory contaminant.

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RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-25	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X049010.D	1	09/13/16	AFL	09/12/16	F:OP61834	F:SX2121
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	820	160	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	160	25	ug/kg	
95-57-8	2-Chlorophenol	ND	160	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	820	160	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	66	ug/kg	
95-48-7	2-Methylphenol	ND	160	18	ug/kg	
	3&4-Methylphenol	ND	160	39	ug/kg	
88-75-5	2-Nitrophenol	ND	160	20	ug/kg	
100-02-7	4-Nitrophenol	ND	820	130	ug/kg	
87-86-5	Pentachlorophenol	ND	820	130	ug/kg	
108-95-2	Phenol	ND	160	19	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	20	ug/kg	
62-53-3	Aniline	ND	160	33	ug/kg	
92-87-5	Benzidine	ND	1600	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	160	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	160	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	160	33	ug/kg	
86-74-8	Carbazole	ND	160	19	ug/kg	
106-47-8	4-Chloroaniline	ND	160	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	160	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	160	29	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	160	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	160	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	160	21	ug/kg	
132-64-9	Dibenzofuran	ND	160	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	160	16	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	160	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	160	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	160	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-25	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	160	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	160	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	160	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	160	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	160	27	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	160	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	160	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	160	33	ug/kg	
67-72-1	Hexachloroethane	ND	160	19	ug/kg	
78-59-1	Isophorone	ND	160	17	ug/kg	
88-74-4	2-Nitroaniline	ND	160	28	ug/kg	
99-09-2	3-Nitroaniline	ND	160	28	ug/kg	
100-01-6	4-Nitroaniline	ND	160	28	ug/kg	
98-95-3	Nitrobenzene	ND	160	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	160	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	160	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	31	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	160	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		40-102%
4165-62-2	Phenol-d5	70%		41-100%
118-79-6	2,4,6-Tribromophenol	98%		42-108%
4165-60-0	Nitrobenzene-d5	67%		40-105%
321-60-8	2-Fluorobiphenyl	72%		43-107%
1718-51-0	Terphenyl-d14	91%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-25	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094947.D	1	09/13/16	AFL	09/12/16	F:OP61828	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	66	26	ug/kg	
208-96-8	Acenaphthylene	ND	66	26	ug/kg	
120-12-7	Anthracene	ND	66	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.3	ug/kg	
218-01-9	Chrysene	ND	13	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.3	ug/kg	
206-44-0	Fluoranthene	ND	66	17	ug/kg	
86-73-7	Fluorene	ND	66	26	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.3	ug/kg	
90-12-0	1-Methylnaphthalene	ND	66	26	ug/kg	
91-57-6	2-Methylnaphthalene	ND	66	26	ug/kg	
91-20-3	Naphthalene	ND	66	26	ug/kg	
85-01-8	Phenanthrene	ND	66	17	ug/kg	
129-00-0	Pyrene	ND	66	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	79%		40-105%
321-60-8	2-Fluorobiphenyl	65%		43-107%
1718-51-0	Terphenyl-d14	84%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E7-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-25	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075822.D	1	09/13/16	AFL	n/a	n/a	F:GUV4035
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.89 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	4.2	2.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		56-149%
98-08-8	aaa-Trifluorotoluene	95%		66-132%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-25	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379360.D	1	09/14/16	AFL	09/12/16	F:OP61829	F:GTT1861
Run #2							

	Initial Weight	Final Volume
Run #1	14.8 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin ^b	ND	1.7	0.51	ug/kg	
319-84-6	alpha-BHC ^b	ND	1.7	0.52	ug/kg	
319-85-7	beta-BHC ^b	ND	1.7	0.52	ug/kg	
319-86-8	delta-BHC ^b	ND	1.7	0.49	ug/kg	
58-89-9	gamma-BHC (Lindane) ^b	ND	1.7	0.52	ug/kg	
12789-03-6	Chlordane	ND	17	6.8	ug/kg	
60-57-1	Dieldrin ^b	ND	1.7	0.64	ug/kg	
72-54-8	4,4' -DDD ^b	ND	3.4	0.58	ug/kg	
72-55-9	4,4' -DDE	ND	3.4	0.54	ug/kg	
50-29-3	4,4' -DDT	ND	3.4	0.66	ug/kg	
72-20-8	Endrin	ND	3.4	0.63	ug/kg	
1031-07-8	Endosulfan sulfate ^b	ND	3.4	0.63	ug/kg	
7421-93-4	Endrin aldehyde ^b	ND	3.4	0.63	ug/kg	
959-98-8	Endosulfan-I ^b	ND	1.7	0.49	ug/kg	
33213-65-9	Endosulfan-II ^b	ND	1.7	0.63	ug/kg	
76-44-8	Heptachlor ^b	ND	1.7	0.57	ug/kg	
1024-57-3	Heptachlor epoxide ^b	ND	1.7	0.59	ug/kg	
72-43-5	Methoxychlor	ND	3.4	0.87	ug/kg	
8001-35-2	Toxaphene	ND	84	34	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		50-122%
2051-24-3	Decachlorobiphenyl	76%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated CCV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-25	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138386.D	1	09/13/16	AFL	09/12/16	F:OP61830	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	14.8 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.8	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.6	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.4	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.8	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.8	ug/kg	
11097-69-1	Aroclor 1254	ND	17	8.1	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%		44-126%
2051-24-3	Decachlorobiphenyl	103%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E7-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-25	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002672.D	1	09/15/16	AFL	09/12/16	F:OP61833	F:GJR98
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	5.0	2.5	mg/kg	
	TPH (> C28-C40)	5.22	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-25	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 4.2	4.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Arsenic ^a	3.0	2.1	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Barium ^a	164	42	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Beryllium ^a	< 1.1	1.1	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cadmium ^a	< 0.84	0.84	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Chromium ^a	71.4	2.1	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cobalt ^a	19.3	11	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Copper ^a	34.9	5.3	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Lead ^a	9.2	4.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Mercury ^b	< 0.039	0.039	mg/kg	1	09/13/16	09/13/16	AFL SW846 7471B ²	SW846 7471B ⁴
Molybdenum ^a	< 11	11	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Nickel ^a	96.6	8.4	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Selenium ^a	< 4.2	4.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Silver ^a	< 2.1	2.1	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Thallium ^a	< 2.1	2.1	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Vanadium ^a	41.8	11	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Zinc ^a	53.0	4.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³

(1) Instrument QC Batch: F:MA13399

(2) Instrument QC Batch: F:MA13400

(3) Prep QC Batch: F:MP30815

(4) Prep QC Batch: F:MP30820

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E7-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-26	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	F0079444.D	1	09/09/16	AFL	n/a	n/a	F:VF2730
Run #2							

	Initial Weight	Final Volume
Run #1	6.04 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	41	8.4	ug/kg	
71-43-2	Benzene	ND	4.1	1.0	ug/kg	
108-86-1	Bromobenzene	ND	4.1	1.0	ug/kg	
74-97-5	Bromochloromethane	ND	4.1	0.92	ug/kg	
75-27-4	Bromodichloromethane	ND	4.1	0.83	ug/kg	
75-25-2	Bromoform	ND	4.1	0.83	ug/kg	
78-93-3	2-Butanone (MEK)	ND	21	7.5	ug/kg	
104-51-8	n-Butylbenzene	ND	4.1	0.83	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.1	0.83	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.1	0.83	ug/kg	
56-23-5	Carbon Tetrachloride	ND	4.1	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	4.1	0.83	ug/kg	
75-00-3	Chloroethane	ND	4.1	1.7	ug/kg	
67-66-3	Chloroform	ND	4.1	1.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.1	0.83	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.1	0.83	ug/kg	
124-48-1	Dibromochloromethane	ND	4.1	0.83	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.1	1.8	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.1	0.83	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.1	2.1	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.1	0.83	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.1	0.83	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.1	0.84	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.1	1.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.1	0.83	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.1	0.83	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.1	0.99	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.1	1.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.1	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.1	0.83	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.1	0.83	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.1	1.1	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-26	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	4.1	1.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.1	0.83	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	4.1	0.99	ug/kg	
100-41-4	Ethylbenzene	ND	4.1	0.90	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	4.1	1.1	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.1	1.8	ug/kg	
591-78-6	2-Hexanone	ND	21	7.2	ug/kg	
98-82-8	Isopropylbenzene	ND	4.1	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.1	0.83	ug/kg	
74-83-9	Methyl Bromide	ND	4.1	2.1	ug/kg	
74-87-3	Methyl Chloride	ND	4.1	2.0	ug/kg	
74-95-3	Methylene Bromide	ND	4.1	1.5	ug/kg	
75-09-2	Methylene Chloride ^b	12.2	8.3	3.3	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	21	8.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.1	0.92	ug/kg	
91-20-3	Naphthalene	ND	4.1	1.7	ug/kg	
103-65-1	n-Propylbenzene	ND	4.1	1.0	ug/kg	
100-42-5	Styrene	ND	4.1	0.83	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.1	1.1	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	41	11	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.1	0.93	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.1	1.8	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.1	1.1	ug/kg	
108-88-3	Toluene	ND	4.1	0.94	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.1	1.6	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.1	1.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.1	0.83	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.1	1.5	ug/kg	
79-01-6	Trichloroethylene	ND	4.1	0.97	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.1	1.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.1	1.3	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.1	0.83	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.1	0.83	ug/kg	
75-01-4	Vinyl Chloride	ND	4.1	1.4	ug/kg	
1330-20-7	Xylene (total)	ND	12	2.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		75-124%
17060-07-0	1,2-Dichloroethane-D4	112%		72-135%

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 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-26	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	92%		75-126%
460-00-4	4-Bromofluorobenzene	100%		71-133%

- (a) Soil vials were not received within 48 hours of sampling; results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.
- (b) Suspected laboratory contaminant.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-26	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X049011.D	1	09/13/16	AFL	09/12/16	F:OP61834	F:SX2121
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	21	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	19	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-26	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		40-102%
4165-62-2	Phenol-d5	77%		41-100%
118-79-6	2,4,6-Tribromophenol	114% ^b		42-108%
4165-60-0	Nitrobenzene-d5	71%		40-105%
321-60-8	2-Fluorobiphenyl	78%		43-107%
1718-51-0	Terphenyl-d14	87%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Outside control limits. However, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-26	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094948.D	1	09/13/16	AFL	09/12/16	F:OP61828	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	14.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	68	27	ug/kg	
208-96-8	Acenaphthylene	ND	68	27	ug/kg	
120-12-7	Anthracene	ND	68	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	14	3.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	14	3.4	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	14	3.4	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	14	3.4	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	14	3.4	ug/kg	
218-01-9	Chrysene	ND	14	3.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	14	3.4	ug/kg	
206-44-0	Fluoranthene	ND	68	17	ug/kg	
86-73-7	Fluorene	ND	68	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	14	3.4	ug/kg	
90-12-0	1-Methylnaphthalene	ND	68	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	68	27	ug/kg	
91-20-3	Naphthalene	ND	68	27	ug/kg	
85-01-8	Phenanthrene	ND	68	17	ug/kg	
129-00-0	Pyrene	ND	68	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	96%		40-105%
321-60-8	2-Fluorobiphenyl	83%		43-107%
1718-51-0	Terphenyl-d14	82%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E7-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-26	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075823.D	1	09/13/16	AFL	n/a	n/a	F:GUV4035
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.88 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	4.3	2.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		56-149%
98-08-8	aaa-Trifluorotoluene	95%		66-132%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-26	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379361.D	1	09/14/16	AFL	09/12/16	F:OP61829	F:GTT1861
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin ^b	ND	1.7	0.51	ug/kg	
319-84-6	alpha-BHC ^b	ND	1.7	0.51	ug/kg	
319-85-7	beta-BHC ^b	ND	1.7	0.51	ug/kg	
319-86-8	delta-BHC ^b	ND	1.7	0.49	ug/kg	
58-89-9	gamma-BHC (Lindane) ^b	ND	1.7	0.51	ug/kg	
12789-03-6	Chlordane	ND	17	6.7	ug/kg	
60-57-1	Dieldrin ^b	ND	1.7	0.63	ug/kg	
72-54-8	4,4' -DDD ^b	ND	3.3	0.57	ug/kg	
72-55-9	4,4' -DDE	ND	3.3	0.54	ug/kg	
50-29-3	4,4' -DDT	ND	3.3	0.65	ug/kg	
72-20-8	Endrin	ND	3.3	0.62	ug/kg	
1031-07-8	Endosulfan sulfate ^b	ND	3.3	0.62	ug/kg	
7421-93-4	Endrin aldehyde ^b	ND	3.3	0.62	ug/kg	
959-98-8	Endosulfan-I ^b	ND	1.7	0.49	ug/kg	
33213-65-9	Endosulfan-II ^b	ND	1.7	0.62	ug/kg	
76-44-8	Heptachlor ^b	ND	1.7	0.57	ug/kg	
1024-57-3	Heptachlor epoxide ^b	ND	1.7	0.58	ug/kg	
72-43-5	Methoxychlor	ND	3.3	0.86	ug/kg	
8001-35-2	Toxaphene	ND	83	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	105%		50-122%
2051-24-3	Decachlorobiphenyl	81%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated CCV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-26	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138387.D	1	09/13/16	AFL	09/12/16	F:OP61830	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.5	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	8.0	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		44-126%
2051-24-3	Decachlorobiphenyl	104%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E7-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-26	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002676.D	1	09/15/16	AFL	09/12/16	F:OP61833	F:GJR98
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	4.9	2.5	mg/kg	
	TPH (> C28-C40)	ND	4.9	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	65%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-26	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 4.4	4.4	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Arsenic ^a	2.7	2.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Barium ^a	139	44	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Beryllium ^a	< 1.1	1.1	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cadmium ^a	< 0.88	0.88	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Chromium ^a	69.0	2.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cobalt ^a	17.2	11	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Copper ^a	33.4	5.5	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Lead ^a	7.6	4.4	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Mercury ^b	< 0.040	0.040	mg/kg	1	09/13/16	09/13/16	AFL SW846 7471B ²	SW846 7471B ⁴
Molybdenum ^a	< 11	11	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Nickel ^a	68.6	8.8	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Selenium ^a	< 4.4	4.4	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Silver ^a	< 2.2	2.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Thallium ^a	< 2.2	2.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Vanadium ^a	60.1	11	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Zinc ^a	51.9	4.4	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³

(1) Instrument QC Batch: F:MA13399

(2) Instrument QC Batch: F:MA13400

(3) Prep QC Batch: F:MP30815

(4) Prep QC Batch: F:MP30820

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E7-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-27	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0117976.D	1	09/09/16	AFL	n/a	n/a	F:VC4680
Run #2							

	Initial Weight	Final Volume
Run #1	5.72 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	44	8.9	ug/kg	
71-43-2	Benzene	ND	4.4	1.1	ug/kg	
108-86-1	Bromobenzene	ND	4.4	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	4.4	0.97	ug/kg	
75-27-4	Bromodichloromethane	ND	4.4	0.87	ug/kg	
75-25-2	Bromoform	ND	4.4	0.87	ug/kg	
78-93-3	2-Butanone (MEK)	ND	22	7.9	ug/kg	
104-51-8	n-Butylbenzene	ND	4.4	0.87	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.4	0.87	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.4	0.87	ug/kg	
56-23-5	Carbon Tetrachloride	ND	4.4	1.6	ug/kg	
108-90-7	Chlorobenzene	ND	4.4	0.87	ug/kg	
75-00-3	Chloroethane	ND	4.4	1.7	ug/kg	
67-66-3	Chloroform	ND	4.4	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.4	0.87	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.4	0.87	ug/kg	
124-48-1	Dibromochloromethane	ND	4.4	0.87	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.4	1.9	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.4	0.87	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.4	2.2	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.4	0.87	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.4	0.87	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.4	0.89	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.4	1.5	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.4	0.87	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.4	0.87	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.4	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.4	1.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.4	1.4	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.4	0.87	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.4	0.87	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.4	1.1	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-27	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	4.4	1.7	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.4	0.87	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	4.4	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	4.4	0.95	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	4.4	1.1	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.4	1.9	ug/kg	
591-78-6	2-Hexanone	ND	22	7.6	ug/kg	
98-82-8	Isopropylbenzene	ND	4.4	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.4	0.87	ug/kg	
74-83-9	Methyl Bromide	ND	4.4	2.3	ug/kg	
74-87-3	Methyl Chloride	ND	4.4	2.1	ug/kg	
74-95-3	Methylene Bromide	ND	4.4	1.6	ug/kg	
75-09-2	Methylene Chloride ^b	11.6	8.7	3.5	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	22	9.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.4	0.97	ug/kg	
91-20-3	Naphthalene	ND	4.4	1.7	ug/kg	
103-65-1	n-Propylbenzene	ND	4.4	1.1	ug/kg	
100-42-5	Styrene	ND	4.4	0.87	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.4	1.2	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	44	12	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.4	0.98	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.4	1.9	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.4	1.1	ug/kg	
108-88-3	Toluene	ND	4.4	0.99	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.4	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.4	1.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.4	0.87	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.4	1.6	ug/kg	
79-01-6	Trichloroethylene	ND	4.4	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.4	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.4	1.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.4	0.87	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.4	0.87	ug/kg	
75-01-4	Vinyl Chloride	ND	4.4	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	13	2.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		75-124%
17060-07-0	1,2-Dichloroethane-D4	106%		72-135%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-27	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	94%		75-126%
460-00-4	4-Bromofluorobenzene	94%		71-133%

(a) Soil vials were not received within 48 hours of sampling; results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

(b) Suspected laboratory contaminant.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-27	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X049012.D	1	09/13/16	AFL	09/12/16	F:OP61834	F:SX2121
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	21	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	19	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

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J = Indicates an estimated value

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-27	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		40-102%
4165-62-2	Phenol-d5	67%		41-100%
118-79-6	2,4,6-Tribromophenol	97%		42-108%
4165-60-0	Nitrobenzene-d5	63%		40-105%
321-60-8	2-Fluorobiphenyl	69%		43-107%
1718-51-0	Terphenyl-d14	79%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-27	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094951.D	1	09/13/16	AFL	09/12/16	F:OP61828	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	14.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	68	27	ug/kg	
208-96-8	Acenaphthylene	ND	68	27	ug/kg	
120-12-7	Anthracene	ND	68	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	14	3.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	14	3.4	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	14	3.4	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	14	3.4	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	14	3.4	ug/kg	
218-01-9	Chrysene	ND	14	3.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	14	3.4	ug/kg	
206-44-0	Fluoranthene	ND	68	17	ug/kg	
86-73-7	Fluorene	ND	68	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	14	3.4	ug/kg	
90-12-0	1-Methylnaphthalene	ND	68	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	68	27	ug/kg	
91-20-3	Naphthalene	ND	68	27	ug/kg	
85-01-8	Phenanthrene	ND	68	17	ug/kg	
129-00-0	Pyrene	ND	68	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		40-105%
321-60-8	2-Fluorobiphenyl	80%		43-107%
1718-51-0	Terphenyl-d14	97%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E7-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-27	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075795.D	1	09/13/16	AFL	n/a	n/a	F:GUV4035
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.29 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	4.7	2.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		56-149%
98-08-8	aaa-Trifluorotoluene	95%		66-132%

(a) Soil vials were not preserved within 48 hours of sampling; results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-27	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379363.D	1	09/14/16	AFL	09/12/16	F:OP61829	F:GTT1861
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin ^b	ND	1.7	0.51	ug/kg	
319-84-6	alpha-BHC ^b	ND	1.7	0.51	ug/kg	
319-85-7	beta-BHC ^b	ND	1.7	0.51	ug/kg	
319-86-8	delta-BHC ^b	ND	1.7	0.49	ug/kg	
58-89-9	gamma-BHC (Lindane) ^b	ND	1.7	0.51	ug/kg	
12789-03-6	Chlordane	ND	17	6.7	ug/kg	
60-57-1	Dieldrin	ND	1.7	0.63	ug/kg	
72-54-8	4,4' -DDD	ND	3.3	0.57	ug/kg	
72-55-9	4,4' -DDE	ND	3.3	0.54	ug/kg	
50-29-3	4,4' -DDT	ND	3.3	0.65	ug/kg	
72-20-8	Endrin	ND	3.3	0.62	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.62	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	0.62	ug/kg	
959-98-8	Endosulfan-I ^b	ND	1.7	0.49	ug/kg	
33213-65-9	Endosulfan-II	ND	1.7	0.62	ug/kg	
76-44-8	Heptachlor ^b	ND	1.7	0.57	ug/kg	
1024-57-3	Heptachlor epoxide ^b	ND	1.7	0.58	ug/kg	
72-43-5	Methoxychlor	ND	3.3	0.86	ug/kg	
8001-35-2	Toxaphene	ND	83	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%		50-122%
2051-24-3	Decachlorobiphenyl	73%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated CCV outside control limits.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-27	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138390.D	1	09/13/16	AFL	09/12/16	F:OP61830	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.5	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	8.0	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		44-126%
2051-24-3	Decachlorobiphenyl	97%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E7-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-27	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002677.D	1	09/15/16	AFL	09/12/16	F:OP61833	F:GJR98
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	5.0	2.5	mg/kg	
	TPH (> C28-C40)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E7-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-27	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 4.2	4.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Arsenic ^a	4.2	2.1	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Barium ^a	115	42	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Beryllium ^a	< 1.1	1.1	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cadmium ^a	< 0.84	0.84	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Chromium ^a	56.7	2.1	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cobalt ^a	11.4	11	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Copper ^a	31.1	5.3	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Lead ^a	8.5	4.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Mercury ^b	0.12	0.039	mg/kg	1	09/13/16	09/13/16	AFL SW846 7471B ²	SW846 7471B ⁴
Molybdenum ^a	< 11	11	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Nickel ^a	68.4	8.4	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Selenium ^a	< 4.2	4.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Silver ^a	< 2.1	2.1	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Thallium ^a	< 2.1	2.1	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Vanadium ^a	46.4	11	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Zinc ^a	52.7	4.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³

(1) Instrument QC Batch: F:MA13399

(2) Instrument QC Batch: F:MA13400

(3) Prep QC Batch: F:MP30815

(4) Prep QC Batch: F:MP30820

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E8-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-28	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	F0079446.D	1	09/09/16	AFL	n/a	n/a	F:VF2730
Run #2							

	Initial Weight	Final Volume
Run #1	6.40 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	39	8.0	ug/kg	
71-43-2	Benzene	ND	3.9	0.98	ug/kg	
108-86-1	Bromobenzene	ND	3.9	0.95	ug/kg	
74-97-5	Bromochloromethane	ND	3.9	0.87	ug/kg	
75-27-4	Bromodichloromethane	ND	3.9	0.78	ug/kg	
75-25-2	Bromoform	ND	3.9	0.78	ug/kg	
78-93-3	2-Butanone (MEK)	ND	20	7.1	ug/kg	
104-51-8	n-Butylbenzene	ND	3.9	0.78	ug/kg	
135-98-8	sec-Butylbenzene	ND	3.9	0.78	ug/kg	
98-06-6	tert-Butylbenzene	ND	3.9	0.78	ug/kg	
56-23-5	Carbon Tetrachloride	ND	3.9	1.4	ug/kg	
108-90-7	Chlorobenzene	ND	3.9	0.78	ug/kg	
75-00-3	Chloroethane	ND	3.9	1.6	ug/kg	
67-66-3	Chloroform	ND	3.9	0.95	ug/kg	
95-49-8	o-Chlorotoluene	ND	3.9	0.78	ug/kg	
106-43-4	p-Chlorotoluene	ND	3.9	0.78	ug/kg	
124-48-1	Dibromochloromethane	ND	3.9	0.78	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.9	1.7	ug/kg	
106-93-4	1,2-Dibromoethane	ND	3.9	0.78	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.9	1.9	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3.9	0.78	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3.9	0.78	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	3.9	0.80	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.9	1.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.9	0.78	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	3.9	0.78	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	3.9	0.94	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	3.9	1.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.9	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	3.9	0.78	ug/kg	
594-20-7	2,2-Dichloropropane	ND	3.9	0.78	ug/kg	
563-58-6	1,1-Dichloropropene	ND	3.9	1.0	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-28	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	3.9	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.9	0.78	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	3.9	0.93	ug/kg	
100-41-4	Ethylbenzene	ND	3.9	0.85	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	3.9	1.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	3.9	1.7	ug/kg	
591-78-6	2-Hexanone	ND	20	6.8	ug/kg	
98-82-8	Isopropylbenzene	ND	3.9	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	3.9	0.78	ug/kg	
74-83-9	Methyl Bromide	ND	3.9	2.0	ug/kg	
74-87-3	Methyl Chloride	ND	3.9	1.9	ug/kg	
74-95-3	Methylene Bromide	ND	3.9	1.4	ug/kg	
75-09-2	Methylene Chloride ^b	10.2	7.8	3.1	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	20	8.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3.9	0.87	ug/kg	
91-20-3	Naphthalene	ND	3.9	1.6	ug/kg	
103-65-1	n-Propylbenzene	ND	3.9	0.97	ug/kg	
100-42-5	Styrene	ND	3.9	0.78	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	3.9	1.1	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	39	11	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	3.9	0.88	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.9	1.7	ug/kg	
127-18-4	Tetrachloroethylene	ND	3.9	1.0	ug/kg	
108-88-3	Toluene	ND	3.9	0.88	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	3.9	1.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3.9	1.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.9	0.78	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.9	1.4	ug/kg	
79-01-6	Trichloroethylene	ND	3.9	0.91	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3.9	1.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	3.9	1.3	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	3.9	0.78	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	3.9	0.78	ug/kg	
75-01-4	Vinyl Chloride	ND	3.9	1.3	ug/kg	
1330-20-7	Xylene (total)	ND	12	2.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		75-124%
17060-07-0	1,2-Dichloroethane-D4	117%		72-135%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-28	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	94%		75-126%
460-00-4	4-Bromofluorobenzene	95%		71-133%

(a) Soil vials were not received within 48 hours of sampling; results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

(b) Suspected laboratory contaminant.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: E8-1
Lab Sample ID: C47015-28
Matrix: SO - Soil
Method: SW846 8270D SW846 3550C
Project: Vallco Mall, Wolfe Rd, Cupertino CA

Date Sampled: 09/06/16
Date Received: 09/08/16
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X049013.D	1	09/13/16	AFL	09/12/16	F:OP61834	F:SX2121
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	21	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	19	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

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Report of Analysis

Client Sample ID:	E8-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-28	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	62%		40-102%
4165-62-2	Phenol-d5	69%		41-100%
118-79-6	2,4,6-Tribromophenol	95%		42-108%
4165-60-0	Nitrobenzene-d5	63%		40-105%
321-60-8	2-Fluorobiphenyl	69%		43-107%
1718-51-0	Terphenyl-d14	78%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
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 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-28	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094952.D	1	09/13/16	AFL	09/12/16	F:OP61828	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	66	26	ug/kg	
208-96-8	Acenaphthylene	ND	66	26	ug/kg	
120-12-7	Anthracene	ND	66	16	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.3	ug/kg	
218-01-9	Chrysene	ND	13	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.3	ug/kg	
206-44-0	Fluoranthene	ND	66	16	ug/kg	
86-73-7	Fluorene	ND	66	26	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.3	ug/kg	
90-12-0	1-Methylnaphthalene	ND	66	26	ug/kg	
91-57-6	2-Methylnaphthalene	ND	66	26	ug/kg	
91-20-3	Naphthalene	ND	66	26	ug/kg	
85-01-8	Phenanthrene	ND	66	16	ug/kg	
129-00-0	Pyrene	ND	66	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		40-105%
321-60-8	2-Fluorobiphenyl	74%		43-107%
1718-51-0	Terphenyl-d14	79%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E8-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-28	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075796.D	1	09/13/16	AFL	n/a	n/a	F:GUV4035
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.49 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	3.9	1.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		56-149%
98-08-8	aaa-Trifluorotoluene	95%		66-132%

(a) Soil vials were not preserved within 48 hours of sampling; results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-28	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379396.D	1	09/15/16	AFL	09/12/16	F:OP61829	F:GTT1862
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.6	0.49	ug/kg	
319-84-6	alpha-BHC	ND	1.6	0.50	ug/kg	
319-85-7	beta-BHC	ND	1.6	0.50	ug/kg	
319-86-8	delta-BHC	ND	1.6	0.47	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.6	0.50	ug/kg	
12789-03-6	Chlordane	ND	16	6.5	ug/kg	
60-57-1	Dieldrin	ND	1.6	0.61	ug/kg	
72-54-8	4,4'-DDD	ND	3.2	0.56	ug/kg	
72-55-9	4,4'-DDE ^b	0.63	3.2	0.52	ug/kg	J
50-29-3	4,4'-DDT	1.2	3.2	0.64	ug/kg	J
72-20-8	Endrin	ND	3.2	0.60	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.2	0.61	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.2	0.60	ug/kg	
959-98-8	Endosulfan-I	ND	1.6	0.47	ug/kg	
33213-65-9	Endosulfan-II	ND	1.6	0.60	ug/kg	
76-44-8	Heptachlor	ND	1.6	0.55	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.6	0.57	ug/kg	
72-43-5	Methoxychlor	ND	3.2	0.83	ug/kg	
8001-35-2	Toxaphene	ND	81	32	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%		50-122%
2051-24-3	Decachlorobiphenyl	68%		50-133%

(a) All hits confirmed by dual column analysis. Analysis performed at SGS Accutest, Orlando FL.

(b) Primary and confirmation results differ by more than 40%. Lower value reported due to possible coelution.

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J = Indicates an estimated value
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 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-28	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138454.D	1	09/14/16	AFL	09/12/16	F:OP61830	F:GST3294
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	16	6.5	ug/kg	
11104-28-2	Aroclor 1221	ND	16	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	16	8.1	ug/kg	
53469-21-9	Aroclor 1242	ND	16	6.5	ug/kg	
12672-29-6	Aroclor 1248	ND	16	6.5	ug/kg	
11097-69-1	Aroclor 1254	25.6	16	7.8	ug/kg	
11096-82-5	Aroclor 1260	ND	16	6.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	105%		44-126%
2051-24-3	Decachlorobiphenyl	106%		41-145%

(a) All hits confirmed by dual column analysis. Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: E8-1
Lab Sample ID: C47015-28
Matrix: SO - Soil
Method: SW846 8015C SW846 3550C
Project: Vallco Mall, Wolfe Rd, Cupertino CA

Date Sampled: 09/06/16
Date Received: 09/08/16
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002678.D	1	09/15/16	AFL	09/12/16	F:OP61833	F:GJR98
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	10.5	5.0	2.5	mg/kg	
	TPH (> C28-C40)	44.5	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-1	Date Sampled:	09/06/16
Lab Sample ID:	C47015-28	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 4.8	4.8	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Arsenic ^a	3.7	2.4	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Barium ^a	142	48	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Beryllium ^a	< 1.2	1.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cadmium ^a	< 0.95	0.95	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Chromium ^a	70.4	2.4	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cobalt ^a	14.6	12	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Copper ^a	33.8	6.0	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Lead ^a	37.5	4.8	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Mercury ^b	0.12	0.038	mg/kg	1	09/13/16	09/13/16	AFL SW846 7471B ²	SW846 7471B ⁴
Molybdenum ^a	< 12	12	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Nickel ^a	81.1	9.5	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Selenium ^a	< 4.8	4.8	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Silver ^a	< 2.4	2.4	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Thallium ^a	< 2.4	2.4	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Vanadium ^a	52.2	12	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Zinc ^a	54.0	4.8	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³

(1) Instrument QC Batch: F:MA13399

(2) Instrument QC Batch: F:MA13400

(3) Prep QC Batch: F:MP30815

(4) Prep QC Batch: F:MP30820

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E8-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-29	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	F0079447.D	1	09/09/16	AFL	n/a	n/a	F:VF2730
Run #2							

	Initial Weight	Final Volume
Run #1	6.03 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	73.0	41	8.5	ug/kg	
71-43-2	Benzene	ND	4.1	1.0	ug/kg	
108-86-1	Bromobenzene	ND	4.1	1.0	ug/kg	
74-97-5	Bromochloromethane	ND	4.1	0.92	ug/kg	
75-27-4	Bromodichloromethane	ND	4.1	0.83	ug/kg	
75-25-2	Bromoform	ND	4.1	0.83	ug/kg	
78-93-3	2-Butanone (MEK)	12.0	21	7.5	ug/kg	J
104-51-8	n-Butylbenzene	ND	4.1	0.83	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.1	0.83	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.1	0.83	ug/kg	
56-23-5	Carbon Tetrachloride	ND	4.1	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	4.1	0.83	ug/kg	
75-00-3	Chloroethane	ND	4.1	1.7	ug/kg	
67-66-3	Chloroform	ND	4.1	1.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.1	0.83	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.1	0.83	ug/kg	
124-48-1	Dibromochloromethane	ND	4.1	0.83	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.1	1.8	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.1	0.83	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.1	2.1	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.1	0.83	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.1	0.83	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.1	0.85	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.1	1.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.1	0.83	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.1	0.83	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.1	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.1	1.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.1	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.1	0.83	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.1	0.83	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.1	1.1	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-29	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	4.1	1.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.1	0.83	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	4.1	0.99	ug/kg	
100-41-4	Ethylbenzene	ND	4.1	0.90	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	4.1	1.1	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.1	1.8	ug/kg	
591-78-6	2-Hexanone	ND	21	7.2	ug/kg	
98-82-8	Isopropylbenzene	ND	4.1	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.1	0.83	ug/kg	
74-83-9	Methyl Bromide	ND	4.1	2.1	ug/kg	
74-87-3	Methyl Chloride	ND	4.1	2.0	ug/kg	
74-95-3	Methylene Bromide	ND	4.1	1.5	ug/kg	
75-09-2	Methylene Chloride ^b	9.1	8.3	3.3	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	21	8.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.1	0.92	ug/kg	
91-20-3	Naphthalene	ND	4.1	1.7	ug/kg	
103-65-1	n-Propylbenzene	ND	4.1	1.0	ug/kg	
100-42-5	Styrene	ND	4.1	0.83	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.1	1.1	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	41	11	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.1	0.93	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.1	1.8	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.1	1.1	ug/kg	
108-88-3	Toluene	ND	4.1	0.94	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.1	1.6	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.1	1.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.1	0.83	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.1	1.5	ug/kg	
79-01-6	Trichloroethylene	ND	4.1	0.97	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.1	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.1	1.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.1	0.83	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.1	0.83	ug/kg	
75-01-4	Vinyl Chloride	ND	4.1	1.4	ug/kg	
1330-20-7	Xylene (total)	ND	12	2.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%		75-124%
17060-07-0	1,2-Dichloroethane-D4	118%		72-135%

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 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-29	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	94%		75-126%
460-00-4	4-Bromofluorobenzene	98%		71-133%

- (a) Soil vials were not received within 48 hours of sampling; results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.
- (b) Suspected laboratory contaminant.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-29	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X049014.D	1	09/13/16	AFL	09/12/16	F:OP61834	F:SX2121
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	21	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	19	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-29	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%		40-102%
4165-62-2	Phenol-d5	67%		41-100%
118-79-6	2,4,6-Tribromophenol	93%		42-108%
4165-60-0	Nitrobenzene-d5	62%		40-105%
321-60-8	2-Fluorobiphenyl	68%		43-107%
1718-51-0	Terphenyl-d14	76%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-29	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094953.D	1	09/13/16	AFL	09/12/16	F:OP61828	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	65	26	ug/kg	
208-96-8	Acenaphthylene	ND	65	26	ug/kg	
120-12-7	Anthracene	ND	65	16	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.2	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.2	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.2	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.2	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.2	ug/kg	
218-01-9	Chrysene	ND	13	3.2	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.2	ug/kg	
206-44-0	Fluoranthene	ND	65	16	ug/kg	
86-73-7	Fluorene	ND	65	26	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.2	ug/kg	
90-12-0	1-Methylnaphthalene	ND	65	26	ug/kg	
91-57-6	2-Methylnaphthalene	ND	65	26	ug/kg	
91-20-3	Naphthalene	ND	65	26	ug/kg	
85-01-8	Phenanthrene	ND	65	16	ug/kg	
129-00-0	Pyrene	ND	65	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	97%		40-105%
321-60-8	2-Fluorobiphenyl	87%		43-107%
1718-51-0	Terphenyl-d14	76%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E8-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-29	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075797.D	1	09/13/16	AFL	n/a	n/a	F:GUV4035
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.98 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	4.2	2.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		56-149%
98-08-8	aaa-Trifluorotoluene	95%		66-132%

(a) Soil vials were not preserved within 48 hours of sampling; results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

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RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-29	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379367.D	1	09/14/16	AFL	09/12/16	F:OP61829	F:GTT1861
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin ^b	ND	1.6	0.49	ug/kg	
319-84-6	alpha-BHC ^b	ND	1.6	0.50	ug/kg	
319-85-7	beta-BHC ^b	ND	1.6	0.50	ug/kg	
319-86-8	delta-BHC ^b	ND	1.6	0.47	ug/kg	
58-89-9	gamma-BHC (Lindane) ^b	ND	1.6	0.50	ug/kg	
12789-03-6	Chlordane	ND	16	6.5	ug/kg	
60-57-1	Dieldrin	ND	1.6	0.61	ug/kg	
72-54-8	4,4' -DDD	ND	3.2	0.56	ug/kg	
72-55-9	4,4' -DDE	ND	3.2	0.52	ug/kg	
50-29-3	4,4' -DDT	ND	3.2	0.64	ug/kg	
72-20-8	Endrin	ND	3.2	0.60	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.2	0.61	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.2	0.60	ug/kg	
959-98-8	Endosulfan-I ^b	ND	1.6	0.47	ug/kg	
33213-65-9	Endosulfan-II	ND	1.6	0.60	ug/kg	
76-44-8	Heptachlor ^b	ND	1.6	0.55	ug/kg	
1024-57-3	Heptachlor epoxide ^b	ND	1.6	0.57	ug/kg	
72-43-5	Methoxychlor	ND	3.2	0.83	ug/kg	
8001-35-2	Toxaphene	ND	81	32	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	114%		50-122%
2051-24-3	Decachlorobiphenyl	61%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated CCV outside control limits.

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 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-29	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138392.D	1	09/13/16	AFL	09/12/16	F:OP61830	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	16	6.5	ug/kg	
11104-28-2	Aroclor 1221	ND	16	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	16	8.1	ug/kg	
53469-21-9	Aroclor 1242	ND	16	6.5	ug/kg	
12672-29-6	Aroclor 1248	ND	16	6.5	ug/kg	
11097-69-1	Aroclor 1254	ND	16	7.8	ug/kg	
11096-82-5	Aroclor 1260	ND	16	6.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		44-126%
2051-24-3	Decachlorobiphenyl	109%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

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 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E8-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-29	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002679.D	1	09/15/16	AFL	09/12/16	F:OP61833	F:GJR98
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	4.9	2.5	mg/kg	
	TPH (> C28-C40)	7.88	4.9	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

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 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-2	Date Sampled:	09/06/16
Lab Sample ID:	C47015-29	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 4.6	4.6	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Arsenic ^a	3.0	2.3	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Barium ^a	177	46	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Beryllium ^a	< 1.2	1.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cadmium ^a	< 0.93	0.93	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Chromium ^a	76.3	2.3	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cobalt ^a	17.6	12	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Copper ^a	35.5	5.8	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Lead ^a	9.1	4.6	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Mercury ^b	< 0.037	0.037	mg/kg	1	09/13/16	09/13/16	AFL SW846 7471B ²	SW846 7471B ⁴
Molybdenum ^a	< 12	12	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Nickel ^a	93.4	9.3	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Selenium ^a	< 4.6	4.6	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Silver ^a	< 2.3	2.3	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Thallium ^a	< 2.3	2.3	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Vanadium ^a	52.7	12	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Zinc ^a	52.7	4.6	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³

(1) Instrument QC Batch: F:MA13399

(2) Instrument QC Batch: F:MA13400

(3) Prep QC Batch: F:MP30815

(4) Prep QC Batch: F:MP30820

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E8-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-30	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	F0079448.D	1	09/09/16	AFL	n/a	n/a	F:VF2730
Run #2							

	Initial Weight	Final Volume
Run #1	6.35 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	39	8.0	ug/kg	
71-43-2	Benzene	ND	3.9	0.99	ug/kg	
108-86-1	Bromobenzene	ND	3.9	0.96	ug/kg	
74-97-5	Bromochloromethane	ND	3.9	0.87	ug/kg	
75-27-4	Bromodichloromethane	ND	3.9	0.79	ug/kg	
75-25-2	Bromoform	ND	3.9	0.79	ug/kg	
78-93-3	2-Butanone (MEK)	ND	20	7.1	ug/kg	
104-51-8	n-Butylbenzene	ND	3.9	0.79	ug/kg	
135-98-8	sec-Butylbenzene	ND	3.9	0.79	ug/kg	
98-06-6	tert-Butylbenzene	ND	3.9	0.79	ug/kg	
56-23-5	Carbon Tetrachloride	ND	3.9	1.4	ug/kg	
108-90-7	Chlorobenzene	ND	3.9	0.79	ug/kg	
75-00-3	Chloroethane	ND	3.9	1.6	ug/kg	
67-66-3	Chloroform	ND	3.9	0.96	ug/kg	
95-49-8	o-Chlorotoluene	ND	3.9	0.79	ug/kg	
106-43-4	p-Chlorotoluene	ND	3.9	0.79	ug/kg	
124-48-1	Dibromochloromethane	ND	3.9	0.79	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.9	1.7	ug/kg	
106-93-4	1,2-Dibromoethane	ND	3.9	0.79	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.9	2.0	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3.9	0.79	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3.9	0.79	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	3.9	0.80	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.9	1.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.9	0.79	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	3.9	0.79	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	3.9	0.94	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	3.9	1.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.9	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	3.9	0.79	ug/kg	
594-20-7	2,2-Dichloropropane	ND	3.9	0.79	ug/kg	
563-58-6	1,1-Dichloropropene	ND	3.9	1.0	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-30	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	3.9	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.9	0.79	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	3.9	0.94	ug/kg	
100-41-4	Ethylbenzene	ND	3.9	0.86	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	3.9	1.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	3.9	1.7	ug/kg	
591-78-6	2-Hexanone	ND	20	6.9	ug/kg	
98-82-8	Isopropylbenzene	ND	3.9	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	3.9	0.79	ug/kg	
74-83-9	Methyl Bromide	ND	3.9	2.0	ug/kg	
74-87-3	Methyl Chloride	ND	3.9	1.9	ug/kg	
74-95-3	Methylene Bromide	ND	3.9	1.4	ug/kg	
75-09-2	Methylene Chloride ^b	5.5	7.9	3.1	ug/kg	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	20	8.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3.9	0.87	ug/kg	
91-20-3	Naphthalene	ND	3.9	1.6	ug/kg	
103-65-1	n-Propylbenzene	ND	3.9	0.98	ug/kg	
100-42-5	Styrene	ND	3.9	0.79	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	3.9	1.1	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	39	11	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	3.9	0.88	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.9	1.7	ug/kg	
127-18-4	Tetrachloroethylene	ND	3.9	1.0	ug/kg	
108-88-3	Toluene	ND	3.9	0.89	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	3.9	1.6	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3.9	1.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.9	0.79	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.9	1.4	ug/kg	
79-01-6	Trichloroethylene	ND	3.9	0.92	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3.9	1.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	3.9	1.3	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	3.9	0.79	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	3.9	0.79	ug/kg	
75-01-4	Vinyl Chloride	ND	3.9	1.3	ug/kg	
1330-20-7	Xylene (total)	ND	12	2.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	120%		75-124%
17060-07-0	1,2-Dichloroethane-D4	133%		72-135%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-30	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	92%		75-126%
460-00-4	4-Bromofluorobenzene	95%		71-133%

(a) Soil vials were not received within 48 hours of sampling; results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

(b) Suspected laboratory contaminant.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-30	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X049015.D	1	09/13/16	AFL	09/12/16	F:OP61834	F:SX2121
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	66	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	20	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	19	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-30	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	27	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		40-102%
4165-62-2	Phenol-d5	72%		41-100%
118-79-6	2,4,6-Tribromophenol	102%		42-108%
4165-60-0	Nitrobenzene-d5	65%		40-105%
321-60-8	2-Fluorobiphenyl	72%		43-107%
1718-51-0	Terphenyl-d14	83%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-30	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094954.D	1	09/13/16	AFL	09/12/16	F:OP61828	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	67	27	ug/kg	
208-96-8	Acenaphthylene	ND	67	27	ug/kg	
120-12-7	Anthracene	ND	67	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.3	ug/kg	
218-01-9	Chrysene	ND	13	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.3	ug/kg	
206-44-0	Fluoranthene	ND	67	17	ug/kg	
86-73-7	Fluorene	ND	67	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.3	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	27	ug/kg	
91-20-3	Naphthalene	ND	67	27	ug/kg	
85-01-8	Phenanthrene	ND	67	17	ug/kg	
129-00-0	Pyrene	ND	67	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		40-105%
321-60-8	2-Fluorobiphenyl	87%		43-107%
1718-51-0	Terphenyl-d14	82%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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3.30
3

Client Sample ID:	E8-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-30	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075798.D	1	09/13/16	AFL	n/a	n/a	F:GUV4035
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.42 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	3.9	1.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		56-149%
98-08-8	aaa-Trifluorotoluene	94%		66-132%

(a) Soil vials were not preserved within 48 hours of sampling; results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-30	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379368.D	1	09/14/16	AFL	09/12/16	F:OP61829	F:GTT1861
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin ^b	ND	1.6	0.50	ug/kg	
319-84-6	alpha-BHC ^b	ND	1.6	0.51	ug/kg	
319-85-7	beta-BHC ^b	ND	1.6	0.50	ug/kg	
319-86-8	delta-BHC ^b	ND	1.6	0.48	ug/kg	
58-89-9	gamma-BHC (Lindane) ^b	ND	1.6	0.50	ug/kg	
12789-03-6	Chlordane	ND	16	6.6	ug/kg	
60-57-1	Dieldrin	ND	1.6	0.62	ug/kg	
72-54-8	4,4' -DDD	ND	3.3	0.57	ug/kg	
72-55-9	4,4' -DDE	ND	3.3	0.53	ug/kg	
50-29-3	4,4' -DDT	ND	3.3	0.64	ug/kg	
72-20-8	Endrin	ND	3.3	0.61	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.62	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	0.61	ug/kg	
959-98-8	Endosulfan-I ^b	ND	1.6	0.48	ug/kg	
33213-65-9	Endosulfan-II	ND	1.6	0.61	ug/kg	
76-44-8	Heptachlor ^b	ND	1.6	0.56	ug/kg	
1024-57-3	Heptachlor epoxide ^b	ND	1.6	0.58	ug/kg	
72-43-5	Methoxychlor	ND	3.3	0.85	ug/kg	
8001-35-2	Toxaphene	ND	82	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	117%		50-122%
2051-24-3	Decachlorobiphenyl	73%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated CCV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-30	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138393.D	1	09/13/16	AFL	09/12/16	F:OP61830	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	16	6.6	ug/kg	
11104-28-2	Aroclor 1221	ND	16	8.4	ug/kg	
11141-16-5	Aroclor 1232	ND	16	8.2	ug/kg	
53469-21-9	Aroclor 1242	ND	16	6.6	ug/kg	
12672-29-6	Aroclor 1248	ND	16	6.6	ug/kg	
11097-69-1	Aroclor 1254	ND	16	7.9	ug/kg	
11096-82-5	Aroclor 1260	ND	16	6.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	106%		44-126%
2051-24-3	Decachlorobiphenyl	114%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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3.30
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Client Sample ID:	E8-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-30	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002680.D	1	09/15/16	AFL	09/12/16	F:OP61833	F:GJR98
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	5.0	2.5	mg/kg	
	TPH (> C28-C40)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-3	Date Sampled:	09/06/16
Lab Sample ID:	C47015-30	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 3.8	3.8	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Arsenic ^a	3.1	1.9	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Barium ^a	112	38	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Beryllium ^a	< 0.95	0.95	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cadmium ^a	< 0.76	0.76	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Chromium ^a	77.5	1.9	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cobalt ^a	18.1	9.5	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Copper ^a	33.5	4.8	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Lead ^a	8.2	3.8	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Mercury ^b	0.055	0.040	mg/kg	1	09/13/16	09/13/16	AFL SW846 7471B ²	SW846 7471B ⁴
Molybdenum ^a	< 9.5	9.5	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Nickel ^a	83.1	7.6	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Selenium ^a	< 3.8	3.8	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Silver ^a	< 1.9	1.9	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Thallium ^a	< 1.9	1.9	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Vanadium ^a	53.9	9.5	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Zinc ^a	49.0	3.8	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³

(1) Instrument QC Batch: F:MA13399

(2) Instrument QC Batch: F:MA13400

(3) Prep QC Batch: F:MP30815

(4) Prep QC Batch: F:MP30820

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	E8-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-31	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	F0079449.D	1	09/09/16	AFL	n/a	n/a	F:VF2730
Run #2							

	Initial Weight	Final Volume
Run #1	6.40 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	39	8.0	ug/kg	
71-43-2	Benzene	ND	3.9	0.98	ug/kg	
108-86-1	Bromobenzene	ND	3.9	0.95	ug/kg	
74-97-5	Bromochloromethane	ND	3.9	0.87	ug/kg	
75-27-4	Bromodichloromethane	ND	3.9	0.78	ug/kg	
75-25-2	Bromoform	ND	3.9	0.78	ug/kg	
78-93-3	2-Butanone (MEK)	ND	20	7.1	ug/kg	
104-51-8	n-Butylbenzene	ND	3.9	0.78	ug/kg	
135-98-8	sec-Butylbenzene	ND	3.9	0.78	ug/kg	
98-06-6	tert-Butylbenzene	ND	3.9	0.78	ug/kg	
56-23-5	Carbon Tetrachloride	ND	3.9	1.4	ug/kg	
108-90-7	Chlorobenzene	ND	3.9	0.78	ug/kg	
75-00-3	Chloroethane	ND	3.9	1.6	ug/kg	
67-66-3	Chloroform	ND	3.9	0.95	ug/kg	
95-49-8	o-Chlorotoluene	ND	3.9	0.78	ug/kg	
106-43-4	p-Chlorotoluene	ND	3.9	0.78	ug/kg	
124-48-1	Dibromochloromethane	ND	3.9	0.78	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.9	1.7	ug/kg	
106-93-4	1,2-Dibromoethane	ND	3.9	0.78	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.9	1.9	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3.9	0.78	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3.9	0.78	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	3.9	0.80	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.9	1.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.9	0.78	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	3.9	0.78	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	3.9	0.94	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	3.9	1.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.9	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	3.9	0.78	ug/kg	
594-20-7	2,2-Dichloropropane	ND	3.9	0.78	ug/kg	
563-58-6	1,1-Dichloropropene	ND	3.9	1.0	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-31	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	3.9	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.9	0.78	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	3.9	0.93	ug/kg	
100-41-4	Ethylbenzene	ND	3.9	0.85	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	3.9	1.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	3.9	1.7	ug/kg	
591-78-6	2-Hexanone	ND	20	6.8	ug/kg	
98-82-8	Isopropylbenzene	ND	3.9	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	3.9	0.78	ug/kg	
74-83-9	Methyl Bromide	ND	3.9	2.0	ug/kg	
74-87-3	Methyl Chloride	ND	3.9	1.9	ug/kg	
74-95-3	Methylene Bromide	ND	3.9	1.4	ug/kg	
75-09-2	Methylene Chloride ^b	12.9	7.8	3.1	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	20	8.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3.9	0.87	ug/kg	
91-20-3	Naphthalene	ND	3.9	1.6	ug/kg	
103-65-1	n-Propylbenzene	ND	3.9	0.97	ug/kg	
100-42-5	Styrene	ND	3.9	0.78	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	3.9	1.1	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	39	11	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	3.9	0.88	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.9	1.7	ug/kg	
127-18-4	Tetrachloroethylene	ND	3.9	1.0	ug/kg	
108-88-3	Toluene	ND	3.9	0.88	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	3.9	1.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3.9	1.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.9	0.78	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.9	1.4	ug/kg	
79-01-6	Trichloroethylene	ND	3.9	0.91	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3.9	1.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	3.9	1.3	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	3.9	0.78	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	3.9	0.78	ug/kg	
75-01-4	Vinyl Chloride	ND	3.9	1.3	ug/kg	
1330-20-7	Xylene (total)	ND	12	2.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		75-124%
17060-07-0	1,2-Dichloroethane-D4	119%		72-135%

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-31	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	92%		75-126%
460-00-4	4-Bromofluorobenzene	98%		71-133%

- (a) Soil vials were not received within 48 hours of sampling; results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.
- (b) Suspected laboratory contaminant.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-31	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X049016.D	1	09/13/16	AFL	09/12/16	F:OP61834	F:SX2121
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	66	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	20	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	19	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-31	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	27	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%		40-102%
4165-62-2	Phenol-d5	63%		41-100%
118-79-6	2,4,6-Tribromophenol	88%		42-108%
4165-60-0	Nitrobenzene-d5	58%		40-105%
321-60-8	2-Fluorobiphenyl	64%		43-107%
1718-51-0	Terphenyl-d14	72%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-31	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094955.D	1	09/13/16	AFL	09/12/16	F:OP61828	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	66	26	ug/kg	
208-96-8	Acenaphthylene	ND	66	26	ug/kg	
120-12-7	Anthracene	ND	66	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.3	ug/kg	
218-01-9	Chrysene	ND	13	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.3	ug/kg	
206-44-0	Fluoranthene	ND	66	17	ug/kg	
86-73-7	Fluorene	ND	66	26	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.3	ug/kg	
90-12-0	1-Methylnaphthalene	ND	66	26	ug/kg	
91-57-6	2-Methylnaphthalene	ND	66	26	ug/kg	
91-20-3	Naphthalene	ND	66	26	ug/kg	
85-01-8	Phenanthrene	ND	66	17	ug/kg	
129-00-0	Pyrene	ND	66	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		40-105%
321-60-8	2-Fluorobiphenyl	68%		43-107%
1718-51-0	Terphenyl-d14	77%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E8-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-31	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075799.D	1	09/13/16	AFL	n/a	n/a	F:GUV4035
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.31 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	4.7	2.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		56-149%
98-08-8	aaa-Trifluorotoluene	95%		66-132%

(a) Soil vials were not preserved within 48 hours of sampling; results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-31	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379369.D	1	09/14/16	AFL	09/12/16	F:OP61829	F:GTT1861
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin ^b	ND	1.6	0.49	ug/kg	
319-84-6	alpha-BHC ^b	ND	1.6	0.50	ug/kg	
319-85-7	beta-BHC ^b	ND	1.6	0.50	ug/kg	
319-86-8	delta-BHC ^b	ND	1.6	0.47	ug/kg	
58-89-9	gamma-BHC (Lindane) ^b	ND	1.6	0.50	ug/kg	
12789-03-6	Chlordane	ND	16	6.5	ug/kg	
60-57-1	Dieldrin	ND	1.6	0.61	ug/kg	
72-54-8	4,4' -DDD	ND	3.2	0.56	ug/kg	
72-55-9	4,4' -DDE	ND	3.2	0.52	ug/kg	
50-29-3	4,4' -DDT	ND	3.2	0.64	ug/kg	
72-20-8	Endrin	ND	3.2	0.60	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.2	0.61	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.2	0.60	ug/kg	
959-98-8	Endosulfan-I ^b	ND	1.6	0.47	ug/kg	
33213-65-9	Endosulfan-II	ND	1.6	0.60	ug/kg	
76-44-8	Heptachlor ^b	ND	1.6	0.55	ug/kg	
1024-57-3	Heptachlor epoxide ^b	ND	1.6	0.57	ug/kg	
72-43-5	Methoxychlor	ND	3.2	0.83	ug/kg	
8001-35-2	Toxaphene	ND	81	32	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	103%		50-122%
2051-24-3	Decachlorobiphenyl	61%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated CCV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-31	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138394.D	1	09/13/16	AFL	09/12/16	F:OP61830	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	16	6.5	ug/kg	
11104-28-2	Aroclor 1221	ND	16	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	16	8.1	ug/kg	
53469-21-9	Aroclor 1242	ND	16	6.5	ug/kg	
12672-29-6	Aroclor 1248	ND	16	6.5	ug/kg	
11097-69-1	Aroclor 1254	ND	16	7.8	ug/kg	
11096-82-5	Aroclor 1260	ND	16	6.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		44-126%
2051-24-3	Decachlorobiphenyl	99%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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3.31
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Client Sample ID:	E8-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-31	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002681.D	1	09/15/16	AFL	09/12/16	F:OP61833	F:GJR98
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	5.0	2.5	mg/kg	
	TPH (> C28-C40)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-4	Date Sampled:	09/06/16
Lab Sample ID:	C47015-31	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 4.5	4.5	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Arsenic ^a	4.4	2.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Barium ^a	86.7	45	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Beryllium ^a	< 1.1	1.1	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cadmium ^a	< 0.89	0.89	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Chromium ^a	49.5	2.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cobalt ^a	11.1	11	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Copper ^a	25.1	5.6	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Lead ^a	8.2	4.5	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Mercury ^b	0.065	0.038	mg/kg	1	09/13/16	09/13/16	AFL SW846 7471B ²	SW846 7471B ⁴
Molybdenum ^a	< 11	11	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Nickel ^a	61.8	8.9	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Selenium ^a	< 4.5	4.5	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Silver ^a	< 2.2	2.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Thallium ^a	< 2.2	2.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Vanadium ^a	44.9	11	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Zinc ^a	49.6	4.5	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³

(1) Instrument QC Batch: F:MA13399

(2) Instrument QC Batch: F:MA13400

(3) Prep QC Batch: F:MP30815

(4) Prep QC Batch: F:MP30820

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID: E8-5
Lab Sample ID: C47015-32
Matrix: SO - Soil
Method: SW846 8260B
Project: Vallco Mall, Wolfe Rd, Cupertino CA

Date Sampled: 09/06/16
Date Received: 09/08/16
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	F0079469.D	1	09/10/16	AFL	n/a	n/a	F:VF2731
Run #2							

	Initial Weight	Final Volume
Run #1	6.13 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	41	8.3	ug/kg	
71-43-2	Benzene	ND	4.1	1.0	ug/kg	
108-86-1	Bromobenzene	ND	4.1	1.0	ug/kg	
74-97-5	Bromochloromethane	ND	4.1	0.91	ug/kg	
75-27-4	Bromodichloromethane	ND	4.1	0.82	ug/kg	
75-25-2	Bromoform	ND	4.1	0.82	ug/kg	
78-93-3	2-Butanone (MEK)	ND	20	7.4	ug/kg	
104-51-8	n-Butylbenzene	ND	4.1	0.82	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.1	0.82	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.1	0.82	ug/kg	
56-23-5	Carbon Tetrachloride	ND	4.1	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	4.1	0.82	ug/kg	
75-00-3	Chloroethane	ND	4.1	1.6	ug/kg	
67-66-3	Chloroform	ND	4.1	1.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.1	0.82	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.1	0.82	ug/kg	
124-48-1	Dibromochloromethane	ND	4.1	0.82	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.1	1.8	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.1	0.82	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.1	2.0	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.1	0.82	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.1	0.82	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.1	0.83	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.1	1.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.1	0.82	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.1	0.82	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.1	0.98	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.1	1.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.1	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.1	0.82	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.1	0.82	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.1	1.1	ug/kg	

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-32	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	4.1	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.1	0.82	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	4.1	0.97	ug/kg	
100-41-4	Ethylbenzene	ND	4.1	0.89	ug/kg	
637-92-3	Ethyl Tert Butyl Ether	ND	4.1	1.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.1	1.8	ug/kg	
591-78-6	2-Hexanone	ND	20	7.1	ug/kg	
98-82-8	Isopropylbenzene	ND	4.1	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.1	0.82	ug/kg	
74-83-9	Methyl Bromide	ND	4.1	2.1	ug/kg	
74-87-3	Methyl Chloride	ND	4.1	2.0	ug/kg	
74-95-3	Methylene Bromide	ND	4.1	1.5	ug/kg	
75-09-2	Methylene Chloride ^b	7.8	8.2	3.3	ug/kg	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	20	8.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.1	0.91	ug/kg	
91-20-3	Naphthalene	ND	4.1	1.6	ug/kg	
103-65-1	n-Propylbenzene	ND	4.1	1.0	ug/kg	
100-42-5	Styrene	ND	4.1	0.82	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.1	1.1	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	41	11	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.1	0.91	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.1	1.8	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.1	1.1	ug/kg	
108-88-3	Toluene	ND	4.1	0.92	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.1	1.6	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.1	1.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.1	0.82	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.1	1.5	ug/kg	
79-01-6	Trichloroethylene	ND	4.1	0.95	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.1	1.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.1	1.3	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.1	0.82	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.1	0.82	ug/kg	
75-01-4	Vinyl Chloride	ND	4.1	1.4	ug/kg	
1330-20-7	Xylene (total)	ND	12	2.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	123%		75-124%
17060-07-0	1,2-Dichloroethane-D4	128%		72-135%

ND = Not detected MDL = Method Detection Limit
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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-32	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	93%		75-126%
460-00-4	4-Bromofluorobenzene	95%		71-133%

(a) Soil vials were not received within 48 hours of sampling; results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

(b) Suspected laboratory contaminant.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-32	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X049017.D	1	09/13/16	AFL	09/12/16	F:OP61834	F:SX2121
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	21	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	19	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	170	18	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-32	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3550C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

ABN Full List w/o PAHs

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	63%		40-102%
4165-62-2	Phenol-d5	70%		41-100%
118-79-6	2,4,6-Tribromophenol	103%		42-108%
4165-60-0	Nitrobenzene-d5	64%		40-105%
321-60-8	2-Fluorobiphenyl	72%		43-107%
1718-51-0	Terphenyl-d14	84%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

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 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-32	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W094956.D	1	09/13/16	AFL	09/12/16	F:OP61828	F:SW4253
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	66	26	ug/kg	
208-96-8	Acenaphthylene	ND	66	26	ug/kg	
120-12-7	Anthracene	ND	66	16	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.3	ug/kg	
218-01-9	Chrysene	ND	13	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.3	ug/kg	
206-44-0	Fluoranthene	ND	66	16	ug/kg	
86-73-7	Fluorene	ND	66	26	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.3	ug/kg	
90-12-0	1-Methylnaphthalene	ND	66	26	ug/kg	
91-57-6	2-Methylnaphthalene	ND	66	26	ug/kg	
91-20-3	Naphthalene	ND	66	26	ug/kg	
85-01-8	Phenanthrene	ND	66	16	ug/kg	
129-00-0	Pyrene	ND	66	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	86%		40-105%
321-60-8	2-Fluorobiphenyl	78%		43-107%
1718-51-0	Terphenyl-d14	90%		45-119%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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3.32
3

Client Sample ID:	E8-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-32	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	UV075800.D	1	09/13/16	AFL	n/a	n/a	F:GUV4035
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.69 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	4.4	2.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		56-149%
98-08-8	aaa-Trifluorotoluene	95%		66-132%

(a) Soil vials were not preserved within 48 hours of sampling; results are considered minimum values. Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-32	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8081B SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	TT379370.D	1	09/14/16	AFL	09/12/16	F:OP61829	F:GTT1861
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin ^b	ND	1.7	0.51	ug/kg	
319-84-6	alpha-BHC ^b	ND	1.7	0.51	ug/kg	
319-85-7	beta-BHC ^b	ND	1.7	0.51	ug/kg	
319-86-8	delta-BHC ^b	ND	1.7	0.49	ug/kg	
58-89-9	gamma-BHC (Lindane) ^b	ND	1.7	0.51	ug/kg	
12789-03-6	Chlordane	ND	17	6.7	ug/kg	
60-57-1	Dieldrin	ND	1.7	0.63	ug/kg	
72-54-8	4,4' -DDD	ND	3.3	0.57	ug/kg	
72-55-9	4,4' -DDE	ND	3.3	0.54	ug/kg	
50-29-3	4,4' -DDT	ND	3.3	0.65	ug/kg	
72-20-8	Endrin	ND	3.3	0.62	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.62	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	0.62	ug/kg	
959-98-8	Endosulfan-I ^b	ND	1.7	0.49	ug/kg	
33213-65-9	Endosulfan-II	ND	1.7	0.62	ug/kg	
76-44-8	Heptachlor ^b	ND	1.7	0.57	ug/kg	
1024-57-3	Heptachlor epoxide ^b	ND	1.7	0.58	ug/kg	
72-43-5	Methoxychlor	ND	3.3	0.86	ug/kg	
8001-35-2	Toxaphene	ND	83	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	107%		50-122%
2051-24-3	Decachlorobiphenyl	77%		50-133%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Associated CCV outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-32	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8082A SW846 3546		
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ST138395.D	1	09/13/16	AFL	09/12/16	F:OP61830	F:GST3293
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.5	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	8.0	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		44-126%
2051-24-3	Decachlorobiphenyl	108%		41-145%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E8-5	
Lab Sample ID:	C47015-32	Date Sampled: 09/06/16
Matrix:	SO - Soil	Date Received: 09/08/16
Method:	SW846 8015C SW846 3550C	Percent Solids: n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	JR002682.D	1	09/15/16	AFL	09/12/16	F:OP61833	F:GJR98
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	5.0	2.5	mg/kg	
	TPH (> C28-C40)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		56-122%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E8-5	Date Sampled:	09/06/16
Lab Sample ID:	C47015-32	Date Received:	09/08/16
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Vallco Mall, Wolfe Rd, Cupertino CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 4.7	4.7	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Arsenic ^a	3.6	2.3	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Barium ^a	115	47	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Beryllium ^a	< 1.2	1.2	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cadmium ^a	< 0.93	0.93	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Chromium ^a	48.9	2.3	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Cobalt ^a	< 12	12	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Copper ^a	27.3	5.8	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Lead ^a	7.4	4.7	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Mercury ^b	0.086	0.038	mg/kg	1	09/13/16	09/13/16	AFL SW846 7471B ²	SW846 7471B ⁴
Molybdenum ^a	< 12	12	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Nickel ^a	62.6	9.3	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Selenium ^a	< 4.7	4.7	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Silver ^a	< 2.3	2.3	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Thallium ^a	< 2.3	2.3	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Vanadium ^a	43.0	12	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³
Zinc ^a	50.0	4.7	mg/kg	5	09/12/16	09/12/16	AFL SW846 6010C ¹	SW846 3050B ³

(1) Instrument QC Batch: F:MA13399

(2) Instrument QC Batch: F:MA13400

(3) Prep QC Batch: F:MP30815

(4) Prep QC Batch: F:MP30820

(a) Sample dilution required due to difficult matrix. Analysis performed at SGS Accutest, Orlando FL.

(b) Analysis performed at SGS Accutest, Orlando FL.

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

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Client / Reporting Information						Project Information								Requested Analysis							Matrix Codes																				
Company Name Geosphere Consultants						Project Name: Vallio Mall																																			
Address 2001 Cow Canyon Rd						Street Wolfe Rd																																			
City State Zip San Ramon CA 94583						City State Cupertino CA																																			
Project Contact: Colin Frost						Project # 91-03790-B																																			
Phone # (925) 484-5332						EMAIL: cfrost@geosphereinc.net																																			
Samplers Name Colin Frost						Client Purchase Order #																																			
SGS Accutest Sample ID						Collection		Number of preserved Bottles										CAM 17 Metals																							
Sample ID / Field Point / Point of Collection						Date	Time	Sampled by:	Matrix	# of bottles	PFOA	PFOS	PAHs	PCBs	PERC	VOCs	NONE	MUSCH	MEQH	SINCORE	Pesticides/PCB	Semivolatiles less PAHs	PAH's by SIM	Volatle Organics	GRO	DRO + ORO, CIO-C28, & TCDD	Arsbestos - 435, CARB	Z, I, B, TCDD	JAN#	LAB USE ONLY											
E1-1	Depth @ 1'	9/6	C.Frost	SO	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1															
E1-2	" 5'																									2															
E1-3	" 10'																									3															
E1-4	" 15'																									4															
E1-8	" 50'																									5															
E2-1	" 1'																									6															
E2-2	" 5'																									7															
E2-3	" 10'																									8															
E2-S	" 20'																									9															
E2-7	" 40'	✓	✓	✓	✓																					10															
Turnaround Time (Business days)						Data Deliverable Information						Comments / Remarks																													
☐ 10 Day ☒ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Same Day						Approved By: Date: _____						☐ Commercial "A" - Results only ☐ Commercial "B" - Results with QC summaries ☐ Commercial "B+" - Results, QC, and chromatograms ☐ FULT 1 - Level 4 data package ☐ EDF for Geotracker ☐ EDD Format _____ Provide EDF Global ID _____ Provide EDF Logcode: _____										3 bottles per sample ~~for each sample~~ ~~for each sample~~ 4 COOLERS																			
Emergency T/A data available VIA Lablink																																									
Sample Custody must be documented below each time samples change possession, including courier delivery.																																									
Relinquished by Samples: 1 Colin Frost [Signature]						Date Time: 9/6, 8AM						Received By: [Signature]						Relinquished By: 2 Clayton Frost						Date Time: 9/8 12:30pm						Received By: [Signature]											
Relinquished by:						Date Time:						Received By:						Relinquished By:						Date Time:						Received By:											
3						3						4						4						4																	
Relinquished by:						Date Time:						Received By:						Custody Seal #						Appropriate Bottle / Pres. Y/N						Headspace Y/N						Onion Y/N					
5						5												Labels match Coct Y/N						Separate Receiving Check List used: Y/N																	

Temp 32/29
30/27
20/21/6 °C

4.1

C47015: Chain of Custody

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4.1

C47015: Chain of Custody

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**ACCUTEST****CHAIN OF CUSTODY**2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201FED-EX Tracking #
SGS Accutest Quote #
V V 8-2016-304
Bottle Order Control #
SGS Accutest ND Job #: C
C47015

Client / Reporting Information				Project Information				Requested Analysis												Matrix Codes					
Company Name: Geosphere Consultants				Project Name: Vallco Mall																WW- Wastewater					
Address: 2001 Crow Canyon Road				Street: Wolfe Road																GW- Ground Water					
City: San Ramon State: CA Zip: 94583				City: Cupertino State: CA																SW- Surface Water					
Project Contact: Colin Frost				Project #: 91-03740-B																SO- Soil					
Phone #: (425) 984-5332				EMAIL: cfrost@geosphereinc.net																OI- Oil					
Sampler's Name: Colin Frost				Client Purchase Order #																WP- Wipe					
																				LIQ- Non-aqueous Liquid					
																				AIR					
																				DW- Drinking Water (Perchlorate Only)					
																				LAB USE ONLY					
SGS Accutest Sample ID				Collection				Number of preserved Bottles												LAB #					
Sample ID / Field Point / Point of Collection				Date				Time				Sampled by				Matrix				# of bottles					
E6-1 depth @ 1'				9/6								C. Frost				SD				3				21	
E6-2 " 5'																				3				22	
E6-4 " 15'																				3				23	
E7-1 " 1'																				3 jars + terracote				24	
E7-2 " 5'																								25	
E7-3 " 10'																								26	
E7-5 " 20'																								27	
E8-1 " 1'																								28	
E8-2 " 5'																								29	
E8-3 " 10'																								30	
Turnaround Time (Business days)				Data Deliverable Information				Comments / Remarks																	
☐ 10 Day ☒ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Same Day				Approved By / Date:				☐ Commercial "A" - Results only ☐ Commercial "B" - Results with QC summaries ☐ Commercial "B+" - Results, QC, and chromatograms ☐ FULLT1 - Level 4 data package ☐ EDF for Geotracker ☐ EDF Format Provide EDF Global ID Provide EDF Logcode:				Samples from E7 & E-8 include a terracote kit, plus 3 jars													
Emergency T/A data available VIA Lablink				Sample Custody must be documented below each time samples change possession, including courier delivery.																					
Relinquished By Sample:				Date Time:				Received By:				Date Time:				Received By:									
1 Colin Frost				9/6, 8M				1 Layton Frost				9/8 12:30pm				2 Layton Frost									
Relinquished by:				Date Time:				Received By:				Date Time:				Received By:									
3								3								4									
Relinquished by:				Date Time:				Received By:				Date Time:				Received By:									
5								5								4									
																Custody Seal #									
																Appropriate Bottle / Pres. Y / N				Headspace Y / N					
																On Ice Y / N				Cooler Temp.					
																Labels match Coc? Y / N				Separate Receiving Check List used: Y / N					

C47015: Chain of Custody

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ACCUTEST
C47015

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4.1

C47015: Chain of Custody

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SGS Accutest Sample Receipt Summary

Job Number: C47015

Client: GEOSPHERE

Project: VALCO MALL

Date / Time Received: 9/8/2016 12:30:00 PM

Delivery Method: Client

Airbill #s:

Cooler Temps (Initial/Adjusted): #1: (3.2/2.9); #2: (3/2.7); #3: (2.9/2.6);

Cooler Security

Y or N

Y or N

1. Custody Seals Present:	☐	☒	3. COC Present:	☒	☐
2. Custody Seals Intact:	☐	☐	4. Smpl Dates/Time OK	☒	☐

Cooler Temperature

Y or N

1. Temp criteria achieved:	☒	☐
2. Therm ID:	IR1;	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	3	

Quality Control Preservation

Y or N

N/A

1. Trip Blank present / cooler:	☐	☐	☒
2. Trip Blank listed on COC:	☐	☐	☒
3. Samples preserved properly:	☒	☐	
4. VOCs headspace free:	☐	☐	☒

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles:	☒	☐
2. Container labeling complete:	☒	☐
3. Sample container label / COC agree:	☒	☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT:	☒	☐
2. All containers accounted for:	☒	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions

Y or N N/A

1. Analysis requested is clear:	☒	☐	
2. Bottles received for unspecified tests	☐	☒	
3. Sufficient volume recvd for analysis:	☒	☐	
4. Compositing instructions clear:	☐	☐	☒
5. Filtering instructions clear:	☐	☐	☒

Comments

4.1
4

C47015: Chain of Custody

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C47015

Misc. Forms

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Custody Documents and Other Forms

(SGS Accutest Southeast)

Includes the following where applicable:

- Chain of Custody

2105 Lundy Avenue, San Jose, CA 95131
TEL: 408-588-0200 FAX: 408-588-0201
www.sgs.com

Client / Reporting Information				Project Information				Requested Analysis (see TEST CODE sheet)												Matrix Codes
Company Name: SGS Accutest Laboratories				Project Name: Vallico Mall, Wolfe Rd, Cupertino CA				A882705TD-PAH_B01EDROORO_B027GSIAPAH P-PB01HESTPPL_P-B002PCBAO_V0015GRD_V02603TD CAM17(601GB)												DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED-Sediment OI - Oil LIQ - Other Liquids AIR - Air SOL - Other Solids WP - Wipe FB-Field Blank ED-Equipment Blank RB- Rinse Blank TB-Trip Blank
Street Address 2105 Lundy Avenue				Billing Information (if different from Report to) City State Company Name																
City State Zip San Jose, CA 95131				Project # Street Address City State Zip																
Project Contact E-mail nutan.kabin@sgs.com				Client Purchase Order # Attention:																
Phone # 408-588-0200																				
Sampler(s) Name(s) Phone Project Manager																				
SGS Account Sample #	Field ID / Point of Collection			MEO/HDI Val #	Collection			Matrix	# of bottles	Number of preserved bottles								LAB USE ONLY		
					Date	Time	Sampled by			HCl	NH ₄ OH	NH ₄ NO ₃	HCDA	KONE	D1 Water	MCH	ENDORE			
1	E1-1		9/6/16	12:00:00 AM	SO			X												
2	E1-2		9/6/16	12:00:00 AM	SO			X												
3	E1-3		9/6/16	12:00:00 AM	SO			X												
4	E1-4		9/6/16	12:00:00 AM	SO			X												
5	E1-6		9/6/16	12:00:00 AM	SO			X												
6	E2-1		9/6/16	12:00:00 AM	SO			X												
7	E2-2		9/6/16	12:00:00 AM	SO			X												
8	E2-3		9/6/16	12:00:00 AM	SO			X												
9	E2-6		9/6/16	12:00:00 AM	SO			X												
10	E2-7		9/6/16	12:00:00 AM	SO			X												
11	E3-1		9/6/16	12:00:00 AM	SO			X												
12	E3-2		9/6/16	12:00:00 AM	SO			X												
Turnaround Time (Business days)				Data Deliverable Information				Comments / Special Instructions												
☐ Std. 10 Business Days ☐ 5 Day RUSH ☐ 3 Day EMERGENCY ☐ 2 Day EMERGENCY ☒ 1 day EMERGENCY ☒ other Due 9/15/2016 Emergency & Rush T/A data available VIA Lablink				Approved By (SGS Accutest PM) / Date: _____ _____ _____ _____ _____ _____				☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ FULLT1 (Level 3+4) ☐ NJ Reduced ☐ Commercial "C" ☐ NYASP Category A ☐ NYASP Category B ☐ State Forms ☐ EDD Format ☒ Other COMMS Commercial "A" = Results Only Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data				Please sub to ALSE for CAM17 (601GB).								
Sample Custody must be documented below each time sample change possession, including courier delivery.																				
Relinquished by Sampler: [Signature] Date Time: 9/8/16 1:50 PM				Received By: FDRK Date Time: 9/8/16 1:50 PM				Relinquished By: FX Date Time: 9/8/16 1:50 PM				Received By: [Signature] Date Time: 9/8/16 1:50 PM								
Relinquished by Samp ler: Date Time:				Received By: Date Time:				Relinquished By: Date Time:				Received By: Date Time:								
Relinquished by: Date Time:				Received By: Date Time:				Custody Seal #				☐ Intact ☐ Not intact Preserved where applicable ☐ On Ice ☐ Cooler Temp: 4.0 C								

5.1

C47015: Chain of Custody

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SGS Accutest Southeast

2105 Lundy Avenue, San Jose, CA 95131
TEL: 408-588-0200 FAX: 408-588-0201
www.sgs.com

[illegible]

5.1

C47015: Chain of Custody
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ACCUTEST

CHAIN OF CUSTODY

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2105 Lundy Avenue, San Jose, CA 95131
TEL: 408-588-0200 FAX: 408-588-0201
www.sgs.com

FED-EX Tracking #		Bottle Order Control #	
SGS Account Quote #		Account Job #	
		C47015	
Client / Reporting Information		Project Information	
Company Name: SGS Accutest Laboratories		Project Name: Valico Mall, Wolfe Rd, Cupertino CA	
Street Address: 2105 Lundy Avenue		Billing Information (if different from Report to)	
City, State, Zip: San Jose, CA 95131		Company Name	
Project Contact: nutan.katir@sgs.com		Street Address	
Phone #: 408-588-0200		City, State, Zip	
Fax #		Client Purchase Order #	
Sampler(s) Name(s)		Project Manager	
Phone		Attention:	
Field ID / Point of Collection		Collection	
MECH/CI Val #		Date, Time, Sampled by, Matrix	
		Number of preserved bottles	
		N3, N3H, N3D, N3D4, N3D6, N3D8, N3D10, N3D12, N3D14, N3D16, N3D18, N3D20, N3D22, N3D24, N3D26, N3D28, N3D30, N3D32, N3D34, N3D36, N3D38, N3D40, N3D42, N3D44, N3D46, N3D48, N3D50, N3D52, N3D54, N3D56, N3D58, N3D60, N3D62, N3D64, N3D66, N3D68, N3D70, N3D72, N3D74, N3D76, N3D78, N3D80, N3D82, N3D84, N3D86, N3D88, N3D90, N3D92, N3D94, N3D96, N3D98, N3D100	
25 E7-2		9/5/16 12:00:00 AM SO	
26 E7-3		9/5/16 12:00:00 AM SO	
27 E7-6		9/5/16 12:00:00 AM SO	
28 E8-1		9/5/16 12:00:00 AM SO	
29 E8-2		9/5/16 12:00:00 AM SO	
30 E8-3		9/5/16 12:00:00 AM SO	
31 E8-4		9/5/16 12:00:00 AM SO	
32 E8-5		9/5/16 12:00:00 AM SO	
Turnaround Time (Business days)		Data Deliverable Information	
Approved by (SGS Accutest P#): / Date:		Comments / Special Instructions	
☐ Std. 10 Business Days ☐ 5 Day RUSH ☐ 3 Day EMERGENCY ☐ 2 Day EMERGENCY ☐ 1 Day EMERGENCY ☒ other Due 9/16/2016 Emergency & Rush T/A data available VIA Lablink		☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ FULLT1 (Level 3+4) ☐ NJ Reduced ☐ Commercial "C" ☐ NYASP Category A ☐ NYASP Category B ☐ State Forms ☐ EDO Format ☒ Other COMMB Commercial "A" = Results Only Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data	
Please sub to ALSE for CAM17 (8010B).			
Sample Custody must be documented below each time samples change possession, including courier delivery.			
Relinquished by Sampler: 1 [Signature] 9/9/16		Relinquished By: 2 [Signature] 9/9/16	
Relinquished by Sampler: 3 [Signature] 9/9/16		Relinquished By: 4 [Signature] 9/9/16	
Relinquished by: 5 [Signature] 9/9/16		Relinquished By: 6 [Signature] 9/9/16	
Custody Seal #		Preserved where applicable	
☐ Intact ☐ Not Intact		☐ On Ice ☐ Cooler Temp.	

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C47015: Chain of Custody
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ACCUTEST
C47015

SGS ACCUTEST - ORLANDO SAMPLE RECEIPT CONFIRMATION

SGS ACCUTEST'S JOB NUMBER: C47015 CLIENT: ALNC PROJECT: Vallco Mall
 DATE/TIME RECEIVED: 9/9/16 930 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 2
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER DELIVERY OTHER: _____
 AIRBILL NUMBERS: 7771 8691 0942

COOLER INFORMATION

- ☐ CUSTODY SEAL NOT PRESENT OR NOT INTACT
☐ CHAIN OF CUSTODY NOT RECEIVED (COC)
☐ ANALYSIS REQUESTED IS UNCLEAR OR MISSING
☐ SAMPLE DATES OR TIMES UNCLEAR OR MISSING
☐ TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- ☐ TRIP BLANK PROVIDED
☒ TRIP BLANK NOT PROVIDED
☒ TRIP BLANK NOT ON COC
☐ TRIP BLANK INTACT
☐ TRIP BLANK NOT INTACT
☐ RECEIVED WATER TRIP BLANK
☐ RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES? 25-GRAM _____ 5-GRAM _____
 NUMBER OF 5035 FIELD KITS? 9
 NUMBER OF LAB FILTERED METALS? _____

TEST STRIP LOT#s pH 0-3 230315

pH 10-12 219813A

OTHER (specify) _____

SUMMARY OF COMMENTS: _____

TEMPERATURE INFORMATION

☐ IR THERM ID 1 CORR. FACTOR -0.4
☐ OBSERVED TEMPS: 9.4 4.6
☐ CORRECTED TEMPS: 4.0 4.2 (USED FOR LIMS)

SAMPLE INFORMATION

- ☐ INCORRECT NUMBER OF CONTAINERS USED
☐ SAMPLE RECEIVED IMPROPERLY PRESERVED
☐ INSUFFICIENT VOLUME FOR ANALYSIS
☐ DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
☐ ID'S ON COC DO NOT MATCH LABEL
☐ VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
☐ BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
☐ NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
☐ UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
☐ SAMPLE CONTAINER(S) RECEIVED BROKEN
☐ 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
☐ BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
☐ % SOLIDS JAR NOT RECEIVED
☐ RESIDUAL CHLORINE PRESENT LOT# _____

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

TECHNICIAN SIGNATURE/DATE

NF 02/16

REVIEWER SIGNATURE/DATE

receipt confirmation 020116.xls

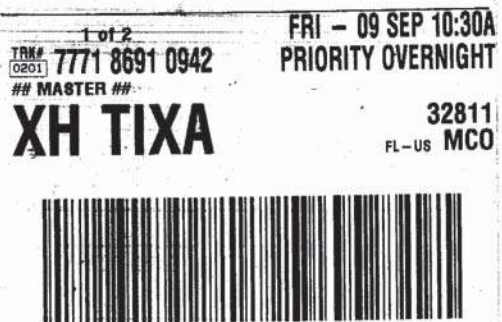
C47015: Chain of Custody

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SGS

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 ACCUTEST
 C47015

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C47015: Chain of Custody
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GC/MS Volatiles

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QC Data Summaries

(SGS Accutest Southeast)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

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Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4680-MB	C0117966.D	1	09/09/16	EP	n/a	n/a	VC4680

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-27

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	10	ug/kg	
71-43-2	Benzene	ND	5.0	1.3	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.2	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.1	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	25	9.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.0	1.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.7	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.6	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.9	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	5.0	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.1	ug/kg	

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Method Blank Summary

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Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCAR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4680-MB	C0117966.D	1	09/09/16	EP	n/a	n/a	VC4680

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-27

CAS No.	Compound	Result	RL	MDL	Units	Q
637-92-3	Ethyl Tert Butyl Ether	ND	5.0	1.3	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.2	ug/kg	
591-78-6	2-Hexanone	ND	25	8.7	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/kg	
74-83-9	Methyl Bromide	ND	5.0	2.6	ug/kg	
74-87-3	Methyl Chloride	ND	5.0	2.4	ug/kg	
74-95-3	Methylene Bromide	ND	5.0	1.8	ug/kg	
75-09-2	Methylene Chloride	ND	10	4.0	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.1	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.2	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	1.4	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	50	14	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
108-88-3	Toluene	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.8	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.9	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.6	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl Chloride	ND	5.0	1.7	ug/kg	
1330-20-7	Xylene (total)	ND	15	2.9	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	103% 75-124%

Method Blank Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4680-MB	C0117966.D	1	09/09/16	EP	n/a	n/a	VC4680

The QC reported here applies to the following samples: Method: SW846 8260B

C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-27

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4	102% 72-135%
2037-26-5	Toluene-D8	98% 75-126%
460-00-4	4-Bromofluorobenzene	95% 71-133%

Method Blank Summary

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Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2730-MB	F0079441.D	1	09/09/16	EP	n/a	n/a	VF2730

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-2, C47015-3, C47015-4, C47015-5, C47015-24, C47015-25, C47015-26, C47015-28, C47015-29, C47015-30, C47015-31

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	10	ug/kg	
71-43-2	Benzene	ND	5.0	1.3	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.2	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.1	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	25	9.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.0	1.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.7	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.6	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.9	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	5.0	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.1	ug/kg	

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Method Blank Summary

Page 2 of 3

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2730-MB	F0079441.D	1	09/09/16	EP	n/a	n/a	VF2730

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-2, C47015-3, C47015-4, C47015-5, C47015-24, C47015-25, C47015-26, C47015-28, C47015-29, C47015-30, C47015-31

CAS No.	Compound	Result	RL	MDL	Units	Q
637-92-3	Ethyl Tert Butyl Ether	ND	5.0	1.3	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.2	ug/kg	
591-78-6	2-Hexanone	ND	25	8.7	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/kg	
74-83-9	Methyl Bromide	ND	5.0	2.6	ug/kg	
74-87-3	Methyl Chloride	ND	5.0	2.4	ug/kg	
74-95-3	Methylene Bromide	ND	5.0	1.8	ug/kg	
75-09-2	Methylene Chloride	ND	10	4.0	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.1	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.2	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	1.4	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	50	14	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
108-88-3	Toluene	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.8	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.9	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.6	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl Chloride	ND	5.0	1.7	ug/kg	
1330-20-7	Xylene (total)	ND	15	2.9	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	103% 75-124%

Method Blank Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2730-MB	F0079441.D	1	09/09/16	EP	n/a	n/a	VF2730

The QC reported here applies to the following samples: Method: SW846 8260B

C47015-2, C47015-3, C47015-4, C47015-5, C47015-24, C47015-25, C47015-26, C47015-28, C47015-29, C47015-30, C47015-31

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4	104% 72-135%
2037-26-5	Toluene-D8	91% 75-126%
460-00-4	4-Bromofluorobenzene	100% 71-133%

6.1.2
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Method Blank Summary

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Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2731-MB	F0079467.D	1	09/10/16	AD	n/a	n/a	VF2731

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-1, C47015-11, C47015-12, C47015-15, C47015-16, C47015-19, C47015-20, C47015-21, C47015-32

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	10	ug/kg	
71-43-2	Benzene	ND	5.0	1.3	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.2	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.1	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	25	9.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.0	1.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.7	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.6	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.9	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	5.0	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.1	ug/kg	

6.1.3

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Method Blank Summary

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Job Number: C47015**Account:** ALNCA SGS Accutest Northern California**Project:** GEOSCAR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2731-MB	F0079467.D	1	09/10/16	AD	n/a	n/a	VF2731

The QC reported here applies to the following samples:**Method:** SW846 8260B

C47015-1, C47015-11, C47015-12, C47015-15, C47015-16, C47015-19, C47015-20, C47015-21, C47015-32

CAS No.	Compound	Result	RL	MDL	Units	Q
637-92-3	Ethyl Tert Butyl Ether	ND	5.0	1.3	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.2	ug/kg	
591-78-6	2-Hexanone	ND	25	8.7	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/kg	
74-83-9	Methyl Bromide	ND	5.0	2.6	ug/kg	
74-87-3	Methyl Chloride	ND	5.0	2.4	ug/kg	
74-95-3	Methylene Bromide	ND	5.0	1.8	ug/kg	
75-09-2	Methylene Chloride	ND	10	4.0	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.1	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.2	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	1.4	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	50	14	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
108-88-3	Toluene	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.8	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.9	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.6	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl Chloride	ND	5.0	1.7	ug/kg	
1330-20-7	Xylene (total)	ND	15	2.9	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	111% 75-124%

Method Blank Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2731-MB	F0079467.D	1	09/10/16	AD	n/a	n/a	VF2731

The QC reported here applies to the following samples: Method: SW846 8260B

C47015-1, C47015-11, C47015-12, C47015-15, C47015-16, C47015-19, C47015-20, C47015-21, C47015-32

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4	110% 72-135%
2037-26-5	Toluene-D8	96% 75-126%
460-00-4	4-Bromofluorobenzene	95% 71-133%

Method Blank Summary

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Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCAR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4681-MB	C0117994.D	1	09/12/16	EP	n/a	n/a	VC4681

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-13, C47015-14, C47015-17, C47015-18, C47015-22, C47015-23

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	10	ug/kg	
71-43-2	Benzene	ND	5.0	1.3	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.2	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.1	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	25	9.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.0	1.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.7	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.6	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.9	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
108-20-3	Di-Isopropyl Ether	ND	5.0	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.1	ug/kg	

6.1.4

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Method Blank Summary

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Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCAR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4681-MB	C0117994.D	1	09/12/16	EP	n/a	n/a	VC4681

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-13, C47015-14, C47015-17, C47015-18, C47015-22, C47015-23

CAS No.	Compound	Result	RL	MDL	Units	Q
637-92-3	Ethyl Tert Butyl Ether	ND	5.0	1.3	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.2	ug/kg	
591-78-6	2-Hexanone	ND	25	8.7	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/kg	
74-83-9	Methyl Bromide	ND	5.0	2.6	ug/kg	
74-87-3	Methyl Chloride	ND	5.0	2.4	ug/kg	
74-95-3	Methylene Bromide	ND	5.0	1.8	ug/kg	
75-09-2	Methylene Chloride	ND	10	4.0	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.1	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.2	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	1.4	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	50	14	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
108-88-3	Toluene	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.8	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.9	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.6	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl Chloride	ND	5.0	1.7	ug/kg	
1330-20-7	Xylene (total)	ND	15	2.9	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	103% 75-124%

Method Blank Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4681-MB	C0117994.D	1	09/12/16	EP	n/a	n/a	VC4681

The QC reported here applies to the following samples: Method: SW846 8260B

C47015-13, C47015-14, C47015-17, C47015-18, C47015-22, C47015-23

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4	103% 72-135%
2037-26-5	Toluene-D8	97% 75-126%
460-00-4	4-Bromofluorobenzene	97% 71-133%

Blank Spike Summary

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Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCAR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4680-BS	C0117965.D	1	09/09/16	EP	n/a	n/a	VC4680

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-27

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	216	86	61-152
71-43-2	Benzene	50	50.8	102	76-126
108-86-1	Bromobenzene	50	49.3	99	76-122
74-97-5	Bromochloromethane	50	50.4	101	77-120
75-27-4	Bromodichloromethane	50	51.0	102	74-130
75-25-2	Bromoform	50	51.2	102	76-127
78-93-3	2-Butanone (MEK)	250	219	88	75-137
104-51-8	n-Butylbenzene	50	53.5	107	71-128
135-98-8	sec-Butylbenzene	50	54.5	109	79-135
98-06-6	tert-Butylbenzene	50	53.2	106	77-133
56-23-5	Carbon Tetrachloride	50	52.4	105	78-133
108-90-7	Chlorobenzene	50	50.4	101	81-129
75-00-3	Chloroethane	50	50.2	100	68-133
67-66-3	Chloroform	50	51.3	103	72-123
95-49-8	o-Chlorotoluene	50	52.4	105	77-129
106-43-4	p-Chlorotoluene	50	49.7	99	80-134
124-48-1	Dibromochloromethane	50	51.1	102	76-127
96-12-8	1,2-Dibromo-3-chloropropane	50	48.8	98	70-137
106-93-4	1,2-Dibromoethane	50	48.8	98	77-126
75-71-8	Dichlorodifluoromethane	50	52.6	105	68-168
95-50-1	1,2-Dichlorobenzene	50	52.1	104	80-129
541-73-1	1,3-Dichlorobenzene	50	54.6	109	81-129
106-46-7	1,4-Dichlorobenzene	50	53.5	107	76-130
75-34-3	1,1-Dichloroethane	50	53.3	107	73-125
107-06-2	1,2-Dichloroethane	50	49.9	100	74-128
75-35-4	1,1-Dichloroethylene	50	51.8	104	81-136
156-59-2	cis-1,2-Dichloroethylene	50	49.4	99	74-126
156-60-5	trans-1,2-Dichloroethylene	50	58.4	117	70-127
78-87-5	1,2-Dichloropropane	50	49.8	100	74-125
142-28-9	1,3-Dichloropropane	50	46.3	93	76-122
594-20-7	2,2-Dichloropropane	50	53.6	107	77-133
563-58-6	1,1-Dichloropropene	50	49.2	98	75-130
10061-01-5	cis-1,3-Dichloropropene	50	49.6	99	80-123
10061-02-6	trans-1,3-Dichloropropene	50	52.8	106	75-131
108-20-3	Di-Isopropyl Ether	50	50.6	101	75-122
100-41-4	Ethylbenzene	50	54.7	109	77-123

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCAR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4680-BS	C0117965.D	1	09/09/16	EP	n/a	n/a	VC4680

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-27

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
637-92-3	Ethyl Tert Butyl Ether	50	49.2	98	75-117
87-68-3	Hexachlorobutadiene	50	47.8	96	74-136
591-78-6	2-Hexanone	250	217	87	72-133
98-82-8	Isopropylbenzene	50	52.8	106	80-136
99-87-6	p-Isopropyltoluene	50	56.5	113	77-131
74-83-9	Methyl Bromide	50	49.1	98	65-139
74-87-3	Methyl Chloride	50	46.6	93	71-144
74-95-3	Methylene Bromide	50	50.5	101	74-124
75-09-2	Methylene Chloride	50	48.3	97	74-137
108-10-1	4-Methyl-2-pentanone (MIBK)	250	248	99	76-132
1634-04-4	Methyl Tert Butyl Ether	50	48.9	98	77-120
91-20-3	Naphthalene	50	56.9	114	79-129
103-65-1	n-Propylbenzene	50	57.2	114	80-135
100-42-5	Styrene	50	51.0	102	78-125
994-05-8	Tert-Amyl Methyl Ether	50	49.3	99	69-130
75-65-0	Tert-Butyl Alcohol	500	496	99	58-136
630-20-6	1,1,1,2-Tetrachloroethane	50	55.0	110	78-126
79-34-5	1,1,2,2-Tetrachloroethane	50	49.2	98	71-126
127-18-4	Tetrachloroethylene	50	49.7	99	79-130
108-88-3	Toluene	50	51.0	102	76-124
87-61-6	1,2,3-Trichlorobenzene	50	52.2	104	77-128
120-82-1	1,2,4-Trichlorobenzene	50	47.8	96	78-130
71-55-6	1,1,1-Trichloroethane	50	49.2	98	70-129
79-00-5	1,1,2-Trichloroethane	50	49.7	99	74-124
79-01-6	Trichloroethylene	50	50.6	101	75-128
75-69-4	Trichlorofluoromethane	50	49.0	98	73-145
96-18-4	1,2,3-Trichloropropane	50	49.1	98	74-127
95-63-6	1,2,4-Trimethylbenzene	50	55.7	111	74-123
108-67-8	1,3,5-Trimethylbenzene	50	55.0	110	73-122
75-01-4	Vinyl Chloride	50	47.0	94	76-141
1330-20-7	Xylene (total)	150	159	106	80-129

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	75-124%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4680-BS	C0117965.D	1	09/09/16	EP	n/a	n/a	VC4680

The QC reported here applies to the following samples: Method: SW846 8260B

C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-27

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	97%	72-135%
2037-26-5	Toluene-D8	100%	75-126%
460-00-4	4-Bromofluorobenzene	98%	71-133%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 3

Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2730-BS	F0079440.D	1	09/09/16	EP	n/a	n/a	VF2730

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-2, C47015-3, C47015-4, C47015-5, C47015-24, C47015-25, C47015-26, C47015-28, C47015-29, C47015-30, C47015-31

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	232	93	61-152
71-43-2	Benzene	50	49.1	98	76-126
108-86-1	Bromobenzene	50	50.9	102	76-122
74-97-5	Bromochloromethane	50	48.6	97	77-120
75-27-4	Bromodichloromethane	50	49.6	99	74-130
75-25-2	Bromoform	50	53.2	106	76-127
78-93-3	2-Butanone (MEK)	250	198	79	75-137
104-51-8	n-Butylbenzene	50	49.2	98	71-128
135-98-8	sec-Butylbenzene	50	53.8	108	79-135
98-06-6	tert-Butylbenzene	50	51.0	102	77-133
56-23-5	Carbon Tetrachloride	50	48.6	97	78-133
108-90-7	Chlorobenzene	50	53.2	106	81-129
75-00-3	Chloroethane	50	50.0	100	68-133
67-66-3	Chloroform	50	48.9	98	72-123
95-49-8	o-Chlorotoluene	50	53.2	106	77-129
106-43-4	p-Chlorotoluene	50	51.6	103	80-134
124-48-1	Dibromochloromethane	50	53.7	107	76-127
96-12-8	1,2-Dibromo-3-chloropropane	50	49.9	100	70-137
106-93-4	1,2-Dibromoethane	50	51.1	102	77-126
75-71-8	Dichlorodifluoromethane	50	50.5	101	68-168
95-50-1	1,2-Dichlorobenzene	50	54.1	108	80-129
541-73-1	1,3-Dichlorobenzene	50	52.3	105	81-129
106-46-7	1,4-Dichlorobenzene	50	52.3	105	76-130
75-34-3	1,1-Dichloroethane	50	51.7	103	73-125
107-06-2	1,2-Dichloroethane	50	48.7	97	74-128
75-35-4	1,1-Dichloroethylene	50	49.4	99	81-136
156-59-2	cis-1,2-Dichloroethylene	50	49.4	99	74-126
156-60-5	trans-1,2-Dichloroethylene	50	55.3	111	70-127
78-87-5	1,2-Dichloropropane	50	49.4	99	74-125
142-28-9	1,3-Dichloropropane	50	48.0	96	76-122
594-20-7	2,2-Dichloropropane	50	53.7	107	77-133
563-58-6	1,1-Dichloropropene	50	47.9	96	75-130
10061-01-5	cis-1,3-Dichloropropene	50	48.6	97	80-123
10061-02-6	trans-1,3-Dichloropropene	50	52.5	105	75-131
108-20-3	Di-Isopropyl Ether	50	50.3	101	75-122
100-41-4	Ethylbenzene	50	52.9	106	77-123

* = Outside of Control Limits.

Blank Spike Summary

Page 2 of 3

Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCAR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2730-BS	F0079440.D	1	09/09/16	EP	n/a	n/a	VF2730

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-2, C47015-3, C47015-4, C47015-5, C47015-24, C47015-25, C47015-26, C47015-28, C47015-29, C47015-30, C47015-31

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
637-92-3	Ethyl Tert Butyl Ether	50	48.0	96	75-117
87-68-3	Hexachlorobutadiene	50	49.0	98	74-136
591-78-6	2-Hexanone	250	241	96	72-133
98-82-8	Isopropylbenzene	50	56.8	114	80-136
99-87-6	p-Isopropyltoluene	50	53.1	106	77-131
74-83-9	Methyl Bromide	50	49.4	99	65-139
74-87-3	Methyl Chloride	50	48.4	97	71-144
74-95-3	Methylene Bromide	50	49.8	100	74-124
75-09-2	Methylene Chloride	50	53.8	108	74-137
108-10-1	4-Methyl-2-pentanone (MIBK)	250	282	113	76-132
1634-04-4	Methyl Tert Butyl Ether	50	47.7	95	77-120
91-20-3	Naphthalene	50	58.2	116	79-129
103-65-1	n-Propylbenzene	50	52.8	106	80-135
100-42-5	Styrene	50	54.0	108	78-125
994-05-8	Tert-Amyl Methyl Ether	50	49.4	99	69-130
75-65-0	Tert-Butyl Alcohol	500	518	104	58-136
630-20-6	1,1,1,2-Tetrachloroethane	50	55.6	111	78-126
79-34-5	1,1,2,2-Tetrachloroethane	50	48.7	97	71-126
127-18-4	Tetrachloroethylene	50	53.7	107	79-130
108-88-3	Toluene	50	51.6	103	76-124
87-61-6	1,2,3-Trichlorobenzene	50	52.5	105	77-128
120-82-1	1,2,4-Trichlorobenzene	50	52.1	104	78-130
71-55-6	1,1,1-Trichloroethane	50	47.3	95	70-129
79-00-5	1,1,2-Trichloroethane	50	50.2	100	74-124
79-01-6	Trichloroethylene	50	50.2	100	75-128
75-69-4	Trichlorofluoromethane	50	52.3	105	73-145
96-18-4	1,2,3-Trichloropropane	50	49.9	100	74-127
95-63-6	1,2,4-Trimethylbenzene	50	51.7	103	74-123
108-67-8	1,3,5-Trimethylbenzene	50	53.0	106	73-122
75-01-4	Vinyl Chloride	50	44.9	90	76-141
1330-20-7	Xylene (total)	150	157	105	80-129

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	75-124%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2730-BS	F0079440.D	1	09/09/16	EP	n/a	n/a	VF2730

The QC reported here applies to the following samples: Method: SW846 8260B

C47015-2, C47015-3, C47015-4, C47015-5, C47015-24, C47015-25, C47015-26, C47015-28, C47015-29, C47015-30, C47015-31

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	96%	72-135%
2037-26-5	Toluene-D8	100%	75-126%
460-00-4	4-Bromofluorobenzene	98%	71-133%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 3

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCAR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2731-BS	F0079466.D	1	09/10/16	AD	n/a	n/a	VF2731

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-1, C47015-11, C47015-12, C47015-15, C47015-16, C47015-19, C47015-20, C47015-21, C47015-32

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	259	104	61-152
71-43-2	Benzene	50	50.1	100	76-126
108-86-1	Bromobenzene	50	50.3	101	76-122
74-97-5	Bromochloromethane	50	50.0	100	77-120
75-27-4	Bromodichloromethane	50	54.4	109	74-130
75-25-2	Bromoform	50	53.3	107	76-127
78-93-3	2-Butanone (MEK)	250	216	86	75-137
104-51-8	n-Butylbenzene	50	51.1	102	71-128
135-98-8	sec-Butylbenzene	50	54.1	108	79-135
98-06-6	tert-Butylbenzene	50	52.4	105	77-133
56-23-5	Carbon Tetrachloride	50	55.5	111	78-133
108-90-7	Chlorobenzene	50	52.7	105	81-129
75-00-3	Chloroethane	50	59.1	118	68-133
67-66-3	Chloroform	50	54.6	109	72-123
95-49-8	o-Chlorotoluene	50	53.6	107	77-129
106-43-4	p-Chlorotoluene	50	52.6	105	80-134
124-48-1	Dibromochloromethane	50	53.9	108	76-127
96-12-8	1,2-Dibromo-3-chloropropane	50	54.5	109	70-137
106-93-4	1,2-Dibromoethane	50	49.8	100	77-126
75-71-8	Dichlorodifluoromethane	50	55.3	111	68-168
95-50-1	1,2-Dichlorobenzene	50	54.8	110	80-129
541-73-1	1,3-Dichlorobenzene	50	53.2	106	81-129
106-46-7	1,4-Dichlorobenzene	50	52.8	106	76-130
75-34-3	1,1-Dichloroethane	50	54.1	108	73-125
107-06-2	1,2-Dichloroethane	50	55.9	112	74-128
75-35-4	1,1-Dichloroethylene	50	55.3	111	81-136
156-59-2	cis-1,2-Dichloroethylene	50	52.7	105	74-126
156-60-5	trans-1,2-Dichloroethylene	50	57.5	115	70-127
78-87-5	1,2-Dichloropropane	50	52.1	104	74-125
142-28-9	1,3-Dichloropropane	50	45.9	92	76-122
594-20-7	2,2-Dichloropropane	50	60.0	120	77-133
563-58-6	1,1-Dichloropropene	50	50.6	101	75-130
10061-01-5	cis-1,3-Dichloropropene	50	50.3	101	80-123
10061-02-6	trans-1,3-Dichloropropene	50	51.7	103	75-131
108-20-3	Di-Isopropyl Ether	50	52.0	104	75-122
100-41-4	Ethylbenzene	50	52.8	106	77-123

* = Outside of Control Limits.

Blank Spike Summary

Page 2 of 3

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2731-BS	F0079466.D	1	09/10/16	AD	n/a	n/a	VF2731

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-1, C47015-11, C47015-12, C47015-15, C47015-16, C47015-19, C47015-20, C47015-21, C47015-32

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
637-92-3	Ethyl Tert Butyl Ether	50	52.7	105	75-117
87-68-3	Hexachlorobutadiene	50	55.6	111	74-136
591-78-6	2-Hexanone	250	242	97	72-133
98-82-8	Isopropylbenzene	50	56.9	114	80-136
99-87-6	p-Isopropyltoluene	50	52.4	105	77-131
74-83-9	Methyl Bromide	50	55.0	110	65-139
74-87-3	Methyl Chloride	50	51.8	104	71-144
74-95-3	Methylene Bromide	50	53.5	107	74-124
75-09-2	Methylene Chloride	50	60.0	120	74-137
108-10-1	4-Methyl-2-pentanone (MIBK)	250	292	117	76-132
1634-04-4	Methyl Tert Butyl Ether	50	53.1	106	77-120
91-20-3	Naphthalene	50	58.6	117	79-129
103-65-1	n-Propylbenzene	50	52.9	106	80-135
100-42-5	Styrene	50	53.7	107	78-125
994-05-8	Tert-Amyl Methyl Ether	50	53.3	107	69-130
75-65-0	Tert-Butyl Alcohol	500	525	105	58-136
630-20-6	1,1,1,2-Tetrachloroethane	50	57.0	114	78-126
79-34-5	1,1,2,2-Tetrachloroethane	50	49.2	98	71-126
127-18-4	Tetrachloroethylene	50	50.9	102	79-130
108-88-3	Toluene	50	51.2	102	76-124
87-61-6	1,2,3-Trichlorobenzene	50	54.1	108	77-128
120-82-1	1,2,4-Trichlorobenzene	50	54.1	108	78-130
71-55-6	1,1,1-Trichloroethane	50	54.3	109	70-129
79-00-5	1,1,2-Trichloroethane	50	50.9	102	74-124
79-01-6	Trichloroethylene	50	52.5	105	75-128
75-69-4	Trichlorofluoromethane	50	59.5	119	73-145
96-18-4	1,2,3-Trichloropropane	50	49.6	99	74-127
95-63-6	1,2,4-Trimethylbenzene	50	53.1	106	74-123
108-67-8	1,3,5-Trimethylbenzene	50	53.3	107	73-122
75-01-4	Vinyl Chloride	50	47.7	95	76-141
1330-20-7	Xylene (total)	150	164	109	80-129

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	75-124%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2731-BS	F0079466.D	1	09/10/16	AD	n/a	n/a	VF2731

The QC reported here applies to the following samples: Method: SW846 8260B

C47015-1, C47015-11, C47015-12, C47015-15, C47015-16, C47015-19, C47015-20, C47015-21, C47015-32

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	107%	72-135%
2037-26-5	Toluene-D8	98%	75-126%
460-00-4	4-Bromofluorobenzene	94%	71-133%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 3

Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCAR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4681-BS	C0117993.D	1	09/12/16	EP	n/a	n/a	VC4681

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-13, C47015-14, C47015-17, C47015-18, C47015-22, C47015-23

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	221	88	61-152
71-43-2	Benzene	50	49.9	100	76-126
108-86-1	Bromobenzene	50	49.7	99	76-122
74-97-5	Bromochloromethane	50	50.0	100	77-120
75-27-4	Bromodichloromethane	50	51.3	103	74-130
75-25-2	Bromoform	50	52.5	105	76-127
78-93-3	2-Butanone (MEK)	250	206	82	75-137
104-51-8	n-Butylbenzene	50	54.9	110	71-128
135-98-8	sec-Butylbenzene	50	52.3	105	79-135
98-06-6	tert-Butylbenzene	50	51.7	103	77-133
56-23-5	Carbon Tetrachloride	50	51.0	102	78-133
108-90-7	Chlorobenzene	50	51.0	102	81-129
75-00-3	Chloroethane	50	51.1	102	68-133
67-66-3	Chloroform	50	50.1	100	72-123
95-49-8	o-Chlorotoluene	50	51.6	103	77-129
106-43-4	p-Chlorotoluene	50	50.8	102	80-134
124-48-1	Dibromochloromethane	50	52.5	105	76-127
96-12-8	1,2-Dibromo-3-chloropropane	50	47.9	96	70-137
106-93-4	1,2-Dibromoethane	50	48.9	98	77-126
75-71-8	Dichlorodifluoromethane	50	48.1	96	68-168
95-50-1	1,2-Dichlorobenzene	50	51.7	103	80-129
541-73-1	1,3-Dichlorobenzene	50	55.7	111	81-129
106-46-7	1,4-Dichlorobenzene	50	54.8	110	76-130
75-34-3	1,1-Dichloroethane	50	51.7	103	73-125
107-06-2	1,2-Dichloroethane	50	50.0	100	74-128
75-35-4	1,1-Dichloroethylene	50	53.7	107	81-136
156-59-2	cis-1,2-Dichloroethylene	50	49.2	98	74-126
156-60-5	trans-1,2-Dichloroethylene	50	56.2	112	70-127
78-87-5	1,2-Dichloropropane	50	50.2	100	74-125
142-28-9	1,3-Dichloropropane	50	46.2	92	76-122
594-20-7	2,2-Dichloropropane	50	49.4	99	77-133
563-58-6	1,1-Dichloropropene	50	48.5	97	75-130
10061-01-5	cis-1,3-Dichloropropene	50	51.3	103	80-123
10061-02-6	trans-1,3-Dichloropropene	50	53.3	107	75-131
108-20-3	Di-Isopropyl Ether	50	50.5	101	75-122
100-41-4	Ethylbenzene	50	53.8	108	77-123

* = Outside of Control Limits.

Blank Spike Summary

Page 2 of 3

Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCAR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4681-BS	C0117993.D	1	09/12/16	EP	n/a	n/a	VC4681

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-13, C47015-14, C47015-17, C47015-18, C47015-22, C47015-23

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
637-92-3	Ethyl Tert Butyl Ether	50	50.3	101	75-117
87-68-3	Hexachlorobutadiene	50	50.6	101	74-136
591-78-6	2-Hexanone	250	226	90	72-133
98-82-8	Isopropylbenzene	50	50.2	100	80-136
99-87-6	p-Isopropyltoluene	50	56.3	113	77-131
74-83-9	Methyl Bromide	50	50.9	102	65-139
74-87-3	Methyl Chloride	50	43.1	86	71-144
74-95-3	Methylene Bromide	50	50.4	101	74-124
75-09-2	Methylene Chloride	50	53.0	106	74-137
108-10-1	4-Methyl-2-pentanone (MIBK)	250	245	98	76-132
1634-04-4	Methyl Tert Butyl Ether	50	49.2	98	77-120
91-20-3	Naphthalene	50	54.6	109	79-129
103-65-1	n-Propylbenzene	50	57.1	114	80-135
100-42-5	Styrene	50	51.4	103	78-125
994-05-8	Tert-Amyl Methyl Ether	50	49.6	99	69-130
75-65-0	Tert-Butyl Alcohol	500	489	98	58-136
630-20-6	1,1,1,2-Tetrachloroethane	50	53.6	107	78-126
79-34-5	1,1,2,2-Tetrachloroethane	50	49.5	99	71-126
127-18-4	Tetrachloroethylene	50	48.2	96	79-130
108-88-3	Toluene	50	49.7	99	76-124
87-61-6	1,2,3-Trichlorobenzene	50	51.7	103	77-128
120-82-1	1,2,4-Trichlorobenzene	50	50.3	101	78-130
71-55-6	1,1,1-Trichloroethane	50	47.4	95	70-129
79-00-5	1,1,2-Trichloroethane	50	50.3	101	74-124
79-01-6	Trichloroethylene	50	50.8	102	75-128
75-69-4	Trichlorofluoromethane	50	51.4	103	73-145
96-18-4	1,2,3-Trichloropropane	50	50.0	100	74-127
95-63-6	1,2,4-Trimethylbenzene	50	55.0	110	74-123
108-67-8	1,3,5-Trimethylbenzene	50	54.5	109	73-122
75-01-4	Vinyl Chloride	50	47.4	95	76-141
1330-20-7	Xylene (total)	150	157	105	80-129

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	75-124%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4681-BS	C0117993.D	1	09/12/16	EP	n/a	n/a	VC4681

The QC reported here applies to the following samples: Method: SW846 8260B

C47015-13, C47015-14, C47015-17, C47015-18, C47015-22, C47015-23

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	96%	72-135%
2037-26-5	Toluene-D8	98%	75-126%
460-00-4	4-Bromofluorobenzene	99%	71-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA36744-2MS	C0117977.D	1	09/09/16	EP	n/a	n/a	VC4680
FA36744-2MSD	C0117978.D	1	09/09/16	EP	n/a	n/a	VC4680
FA36744-2	C0117969.D	1	09/09/16	EP	n/a	n/a	VC4680

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-27

CAS No.	Compound	FA36744-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	38 U		298	243	81	300	255	85	5	61-152/27
71-43-2	Benzene	3.8 U		59.7	51.4	86	60	51.5	86	0	76-126/26
108-86-1	Bromobenzene	3.8 U		59.7	57.2	96	60	54.5	91	5	76-122/32
74-97-5	Bromochloromethane	3.8 U		59.7	52.9	89	60	54.0	90	2	77-120/24
75-27-4	Bromodichloromethane	3.8 U		59.7	53.8	90	60	54.2	90	1	74-130/25
75-25-2	Bromoform	3.8 U		59.7	51.6	86	60	52.0	87	1	76-127/26
78-93-3	2-Butanone (MEK)	19 U		298	227	76	300	235	78	3	75-137/25
104-51-8	n-Butylbenzene	3.8 U		59.7	62.8	105	60	58.9	98	6	71-128/35
135-98-8	sec-Butylbenzene	3.8 U		59.7	57.8	97	60	53.8	90	7	79-135/34
98-06-6	tert-Butylbenzene	3.8 U		59.7	57.7	97	60	54.9	91	5	77-133/34
56-23-5	Carbon Tetrachloride	3.8 U		59.7	46.0	77*	60	46.6	78	1	78-133/29
108-90-7	Chlorobenzene	3.8 U		59.7	54.8	92	60	53.7	89	2	81-129/29
75-00-3	Chloroethane	3.8 U		59.7	47.5	80	60	49.1	82	3	68-133/29
67-66-3	Chloroform	3.8 U		59.7	52.6	88	60	52.9	88	1	72-123/26
95-49-8	o-Chlorotoluene	3.8 U		59.7	60.5	101	60	56.9	95	6	77-129/33
106-43-4	p-Chlorotoluene	3.8 U		59.7	60.6	102	60	57.7	96	5	80-134/33
124-48-1	Dibromochloromethane	3.8 U		59.7	53.8	90	60	53.9	90	0	76-127/27
96-12-8	1,2-Dibromo-3-chloropropane	3.8 U		59.7	50.5	85	60	51.8	86	3	70-137/29
106-93-4	1,2-Dibromoethane	3.8 U		59.7	52.4	88	60	51.7	86	1	77-126/26
75-71-8	Dichlorodifluoromethane	3.8 U		59.7	35.0	59*	60	35.4	59*	1	68-168/29
95-50-1	1,2-Dichlorobenzene	3.8 U		59.7	58.0	97	60	55.5	92	4	80-129/32
541-73-1	1,3-Dichlorobenzene	3.8 U		59.7	64.6	108	60	60.7	101	6	81-129/33
106-46-7	1,4-Dichlorobenzene	3.8 U		59.7	64.3	108	60	60.6	101	6	76-130/32
75-34-3	1,1-Dichloroethane	3.8 U		59.7	52.2	87	60	52.8	88	1	73-125/27
107-06-2	1,2-Dichloroethane	3.8 U		59.7	53.5	90	60	53.8	90	1	74-128/23
75-35-4	1,1-Dichloroethylene	3.8 U		59.7	48.8	82	60	49.5	82	1	81-136/28
156-59-2	cis-1,2-Dichloroethylene	3.8 U		59.7	51.3	86	60	52.2	87	2	74-126/26
156-60-5	trans-1,2-Dichloroethylene	3.8 U		59.7	54.5	91	60	54.7	91	0	70-127/27
78-87-5	1,2-Dichloropropane	3.8 U		59.7	53.7	90	60	53.6	89	0	74-125/25
142-28-9	1,3-Dichloropropane	3.8 U		59.7	52.8	89	60	51.3	85	3	76-122/26
594-20-7	2,2-Dichloropropane	3.8 U		59.7	46.0	77	60	47.7	79	4	77-133/28
563-58-6	1,1-Dichloropropene	3.8 U		59.7	48.4	81	60	48.0	80	1	75-130/28
10061-01-5	cis-1,3-Dichloropropene	3.8 U		59.7	54.4	91	60	52.4	87	4	80-123/26
10061-02-6	trans-1,3-Dichloropropene	3.8 U		59.7	57.0	96	60	54.3	90	5	75-131/28
108-20-3	Di-Isopropyl Ether	3.8 U		59.7	55.0	92	60	56.0	93	2	75-122/25
100-41-4	Ethylbenzene	3.8 U		59.7	58.7	98	60	58.7	98	0	77-123/31

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 3

Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA36744-2MS	C0117977.D	1	09/09/16	EP	n/a	n/a	VC4680
FA36744-2MSD	C0117978.D	1	09/09/16	EP	n/a	n/a	VC4680
FA36744-2	C0117969.D	1	09/09/16	EP	n/a	n/a	VC4680

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-27

CAS No.	Compound	FA36744-2 ug/kg	Spike Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
637-92-3	Ethyl Tert Butyl Ether	3.8 U		59.7	55.3	93	60	57.3	95	4	75-117/24
87-68-3	Hexachlorobutadiene	3.8 U		59.7	48.3	81	60	44.0	73*	9	74-136/38
591-78-6	2-Hexanone	19 U		298	245	82	300	250	83	2	72-133/26
98-82-8	Isopropylbenzene	3.8 U		59.7	52.2	87	60	51.9	86	1	80-136/32
99-87-6	p-Isopropyltoluene	3.8 U		59.7	65.7	110	60	61.4	102	7	77-131/34
74-83-9	Methyl Bromide	3.8 U		59.7	47.0	79	60	46.6	78	1	65-139/31
74-87-3	Methyl Chloride	3.8 U		59.7	42.5	71	60	42.3	70*	0	71-144/27
74-95-3	Methylene Bromide	3.8 U		59.7	52.5	88	60	52.7	88	0	74-124/24
75-09-2	Methylene Chloride	7.6 U		59.7	58.8	99	60	58.7	98	0	74-137/28
108-10-1	4-Methyl-2-pentanone (MIBK)	19 U		298	266	89	300	276	92	4	76-132/26
1634-04-4	Methyl Tert Butyl Ether	3.8 U		59.7	53.9	90	60	55.4	92	3	77-120/24
91-20-3	Naphthalene	3.8 U		59.7	51.6	86	60	47.5	79	8	79-129/33
103-65-1	n-Propylbenzene	3.8 U		59.7	66.2	111	60	63.2	105	5	80-135/33
100-42-5	Styrene	3.8 U		59.7	55.6	93	60	54.9	91	1	78-125/30
994-05-8	Tert-Amyl Methyl Ether	3.8 U		59.7	54.8	92	60	56.2	94	3	69-130/23
75-65-0	Tert-Butyl Alcohol	38 U		597	660	111	600	663	110	0	74-126/32
630-20-6	1,1,1,2-Tetrachloroethane	3.8 U		59.7	56.6	95	60	58.5	97	3	78-126/27
79-34-5	1,1,2,2-Tetrachloroethane	3.8 U		59.7	55.3	93	60	54.5	91	1	71-126/30
127-18-4	Tetrachloroethylene	3.8 U		59.7	54.0	91	60	53.1	88	2	79-130/31
108-88-3	Toluene	3.8 U		59.7	54.8	92	60	53.8	90	2	76-124/30
87-61-6	1,2,3-Trichlorobenzene	3.8 U		59.7	53.1	89	60	48.1	80	10	77-128/35
120-82-1	1,2,4-Trichlorobenzene	3.8 U		59.7	57.9	97	60	51.1	85	12	78-130/34
71-55-6	1,1,1-Trichloroethane	3.8 U		59.7	46.0	77	60	46.6	78	1	70-129/27
79-00-5	1,1,2-Trichloroethane	3.8 U		59.7	54.8	92	60	54.1	90	1	74-124/28
79-01-6	Trichloroethylene	3.8 U		59.7	53.0	89	60	52.3	87	1	75-128/27
75-69-4	Trichlorofluoromethane	3.8 U		59.7	37.3	63*	60	39.5	66*	6	73-145/31
96-18-4	1,2,3-Trichloropropane	3.8 U		59.7	53.9	90	60	54.3	90	1	74-127/27
95-63-6	1,2,4-Trimethylbenzene	3.8 U		59.7	66.3	111	60	62.9	105	5	74-123/34
108-67-8	1,3,5-Trimethylbenzene	3.8 U		59.7	65.0	109	60	61.9	103	5	73-122/33
75-01-4	Vinyl Chloride	3.8 U		59.7	43.7	73*	60	44.1	73*	1	76-141/27
1330-20-7	Xylene (total)	11 U		179	176	98	180	174	97	1	80-129/30

CAS No.	Surrogate Recoveries	MS	MSD	FA36744-2	Limits
1868-53-7	Dibromofluoromethane	99%	102%	103%	75-124%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA36744-2MS	C0117977.D	1	09/09/16	EP	n/a	n/a	VC4680
FA36744-2MSD	C0117978.D	1	09/09/16	EP	n/a	n/a	VC4680
FA36744-2	C0117969.D	1	09/09/16	EP	n/a	n/a	VC4680

The QC reported here applies to the following samples: Method: SW846 8260B

C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-27

CAS No.	Surrogate Recoveries	MS	MSD	FA36744-2	Limits
17060-07-0	1,2-Dichloroethane-D4	95%	96%	101%	72-135%
2037-26-5	Toluene-D8	100%	101%	95%	75-126%
460-00-4	4-Bromofluorobenzene	103%	101%	98%	71-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C47015-24MS	F0079451.D	1	09/09/16	EP	n/a	n/a	VF2730
C47015-24MSD	F0079452.D	1	09/09/16	EP	n/a	n/a	VF2730
C47015-24 ^a	F0079442.D	1	09/09/16	EP	n/a	n/a	VF2730

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-2, C47015-3, C47015-4, C47015-5, C47015-24, C47015-25, C47015-26, C47015-28, C47015-29, C47015-30, C47015-31

CAS No.	Compound	C47015-24 ug/kg	Spike Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	210		306	372	53*	305	319	36*	15	61-152/27
71-43-2	Benzene	ND		61.3	50.2	82	61	48.9	80	3	76-126/26
108-86-1	Bromobenzene	ND		61.3	55.0	90	61	51.9	85	6	76-122/32
74-97-5	Bromochloromethane	ND		61.3	52.2	85	61	51.0	84	2	77-120/24
75-27-4	Bromodichloromethane	ND		61.3	53.1	87	61	54.2	89	2	74-130/25
75-25-2	Bromoform	ND		61.3	50.2	82	61	52.6	86	5	76-127/26
78-93-3	2-Butanone (MEK)	45.9		306	276	75	305	244	65*	12	75-137/25
104-51-8	n-Butylbenzene	ND		61.3	49.6	81	61	52.0	85	5	71-128/35
135-98-8	sec-Butylbenzene	ND		61.3	52.5	86	61	52.7	86	0	79-135/34
98-06-6	tert-Butylbenzene	ND		61.3	53.0	86	61	51.9	85	2	77-133/34
56-23-5	Carbon Tetrachloride	ND		61.3	40.4	66*	61	48.2	79	18	78-133/29
108-90-7	Chlorobenzene	ND		61.3	51.3	84	61	53.2	87	4	81-129/29
75-00-3	Chloroethane	ND		61.3	49.0	80	61	50.5	83	3	68-133/29
67-66-3	Chloroform	ND		61.3	53.9	88	61	51.7	85	4	72-123/26
95-49-8	o-Chlorotoluene	ND		61.3	55.3	90	61	54.4	89	2	77-129/33
106-43-4	p-Chlorotoluene	ND		61.3	55.5	91	61	55.5	91	0	80-134/33
124-48-1	Dibromochloromethane	ND		61.3	54.6	89	61	55.6	91	2	76-127/27
96-12-8	1,2-Dibromo-3-chloropropane	ND		61.3	52.6	86	61	51.0	84	3	70-137/29
106-93-4	1,2-Dibromoethane	ND		61.3	57.5	94	61	52.9	87	8	77-126/26
75-71-8	Dichlorodifluoromethane	ND		61.3	39.9	65*	61	41.7	68	4	68-168/29
95-50-1	1,2-Dichlorobenzene	ND		61.3	48.8	80	61	52.7	86	8	80-129/32
541-73-1	1,3-Dichlorobenzene	ND		61.3	49.2	80*	61	53.1	87	8	81-129/33
106-46-7	1,4-Dichlorobenzene	ND		61.3	49.4	81	61	53.9	88	9	76-130/32
75-34-3	1,1-Dichloroethane	ND		61.3	51.4	84	61	51.5	84	0	73-125/27
107-06-2	1,2-Dichloroethane	ND		61.3	59.5	97	61	56.5	93	5	74-128/23
75-35-4	1,1-Dichloroethylene	ND		61.3	50.4	82	61	49.3	81	2	81-136/28
156-59-2	cis-1,2-Dichloroethylene	ND		61.3	49.6	81	61	49.9	82	1	74-126/26
156-60-5	trans-1,2-Dichloroethylene	ND		61.3	51.1	83	61	51.1	84	0	70-127/27
78-87-5	1,2-Dichloropropane	ND		61.3	54.0	88	61	52.8	87	2	74-125/25
142-28-9	1,3-Dichloropropane	ND		61.3	55.2	90	61	53.2	87	4	76-122/26
594-20-7	2,2-Dichloropropane	ND		61.3	45.0	73*	61	47.1	77	5	77-133/28
563-58-6	1,1-Dichloropropene	ND		61.3	47.5	78	61	49.4	81	4	75-130/28
10061-01-5	cis-1,3-Dichloropropene	ND		61.3	54.7	89	61	53.9	88	1	80-123/26
10061-02-6	trans-1,3-Dichloropropene	ND		61.3	56.4	92	61	54.6	90	3	75-131/28
108-20-3	Di-Isopropyl Ether	ND		61.3	52.7	86	61	51.0	84	3	75-122/25
100-41-4	Ethylbenzene	ND		61.3	51.4	84	61	53.0	87	3	77-123/31

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 3

Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C47015-24MS	F0079451.D	1	09/09/16	EP	n/a	n/a	VF2730
C47015-24MSD	F0079452.D	1	09/09/16	EP	n/a	n/a	VF2730
C47015-24 ^a	F0079442.D	1	09/09/16	EP	n/a	n/a	VF2730

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-2, C47015-3, C47015-4, C47015-5, C47015-24, C47015-25, C47015-26, C47015-28, C47015-29, C47015-30, C47015-31

CAS No.	Compound	C47015-24 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
637-92-3	Ethyl Tert Butyl Ether	ND		61.3	56.1	92	61	52.4	86	7	75-117/24
87-68-3	Hexachlorobutadiene	ND		61.3	40.7	66*	61	49.0	80	19	74-136/38
591-78-6	2-Hexanone	ND		306	319	104	305	274	90	15	72-133/26
98-82-8	Isopropylbenzene	ND		61.3	50.5	82	61	54.9	90	8	80-136/32
99-87-6	p-Isopropyltoluene	ND		61.3	52.6	86	61	54.5	89	4	77-131/34
74-83-9	Methyl Bromide	ND		61.3	46.4	76	61	49.8	82	7	65-139/31
74-87-3	Methyl Chloride	ND		61.3	44.8	73	61	47.1	77	5	71-144/27
74-95-3	Methylene Bromide	ND		61.3	59.2	97	61	56.2	92	5	74-124/24
75-09-2	Methylene Chloride	13.6		61.3	63.3	81	61	63.5	82	0	74-137/28
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		306	318	104	305	297	97	7	76-132/26
1634-04-4	Methyl Tert Butyl Ether	ND		61.3	55.4	90	61	53.3	87	4	77-120/24
91-20-3	Naphthalene	ND		61.3	38.8	63*	61	49.8	82	25	79-129/33
103-65-1	n-Propylbenzene	ND		61.3	57.5	94	61	55.3	91	4	80-135/33
100-42-5	Styrene	ND		61.3	49.9	81	61	54.2	89	8	78-125/30
994-05-8	Tert-Amyl Methyl Ether	ND		61.3	54.9	90	61	53.6	88	2	69-130/23
75-65-0	Tert-Butyl Alcohol	ND		613	664	108	610	596	98	11	74-126/32
630-20-6	1,1,1,2-Tetrachloroethane	ND		61.3	50.3	82	61	53.7	88	7	78-126/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		61.3	57.3	94	61	51.3	84	11	71-126/30
127-18-4	Tetrachloroethylene	ND		61.3	53.0	86	61	57.9	95	9	79-130/31
108-88-3	Toluene	ND		61.3	50.4	82	61	51.6	85	2	76-124/30
87-61-6	1,2,3-Trichlorobenzene	ND		61.3	33.1	54*	61	46.6	76*	34	77-128/35
120-82-1	1,2,4-Trichlorobenzene	ND		61.3	37.8	62*	61	49.5	81	27	78-130/34
71-55-6	1,1,1-Trichloroethane	ND		61.3	49.6	81	61	49.6	81	0	70-129/27
79-00-5	1,1,2-Trichloroethane	ND		61.3	55.5	91	61	52.9	87	5	74-124/28
79-01-6	Trichloroethylene	ND		61.3	56.4	92	61	53.3	87	6	75-128/27
75-69-4	Trichlorofluoromethane	ND		61.3	50.6	83	61	49.9	82	1	73-145/31
96-18-4	1,2,3-Trichloropropane	ND		61.3	62.4	102	61	54.3	89	14	74-127/27
95-63-6	1,2,4-Trimethylbenzene	ND		61.3	54.3	89	61	55.4	91	2	74-123/34
108-67-8	1,3,5-Trimethylbenzene	ND		61.3	55.4	90	61	54.9	90	1	73-122/33
75-01-4	Vinyl Chloride	ND		61.3	40.7	66*	61	43.1	71*	6	76-141/27
1330-20-7	Xylene (total)	ND		184	154	84	183	162	89	5	80-129/30

CAS No.	Surrogate Recoveries	MS	MSD	C47015-24	Limits
1868-53-7	Dibromofluoromethane	104%	101%	111%	75-124%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 3 of 3

Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C47015-24MS	F0079451.D	1	09/09/16	EP	n/a	n/a	VF2730
C47015-24MSD	F0079452.D	1	09/09/16	EP	n/a	n/a	VF2730
C47015-24 ^a	F0079442.D	1	09/09/16	EP	n/a	n/a	VF2730

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-2, C47015-3, C47015-4, C47015-5, C47015-24, C47015-25, C47015-26, C47015-28, C47015-29, C47015-30, C47015-31

CAS No.	Surrogate Recoveries	MS	MSD	C47015-24	Limits
17060-07-0	1,2-Dichloroethane-D4	109%	108%	113%	72-135%
2037-26-5	Toluene-D8	96%	97%	94%	75-126%
460-00-4	4-Bromofluorobenzene	107%	104%	113%	71-133%

(a) Soil vials were not received within 48 hours of sampling; results are considered minimum values.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C47015-32MS	F0079474.D	1	09/10/16	AD	n/a	n/a	VF2731
C47015-32MSD	F0079475.D	1	09/10/16	AD	n/a	n/a	VF2731
C47015-32 ^a	F0079469.D	1	09/10/16	AD	n/a	n/a	VF2731

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-1, C47015-11, C47015-12, C47015-15, C47015-16, C47015-19, C47015-20, C47015-21, C47015-32

CAS No.	Compound	C47015-32 ug/kg	Spike Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		274	279	102	275	238	87	16	61-152/27
71-43-2	Benzene	ND		54.7	49.3	90	54.9	47.2	86	4	76-126/26
108-86-1	Bromobenzene	ND		54.7	52.5	96	54.9	54.2	99	3	76-122/32
74-97-5	Bromochloromethane	ND		54.7	51.1	93	54.9	46.1	84	10	77-120/24
75-27-4	Bromodichloromethane	ND		54.7	54.4	99	54.9	53.5	97	2	74-130/25
75-25-2	Bromoform	ND		54.7	55.3	101	54.9	51.1	93	8	76-127/26
78-93-3	2-Butanone (MEK)	ND		274	236	86	275	214	78	10	75-137/25
104-51-8	n-Butylbenzene	ND		54.7	57.9	106	54.9	54.6	99	6	71-128/35
135-98-8	sec-Butylbenzene	ND		54.7	53.9	99	54.9	54.3	99	1	79-135/34
98-06-6	tert-Butylbenzene	ND		54.7	52.7	96	54.9	52.1	95	1	77-133/34
56-23-5	Carbon Tetrachloride	ND		54.7	51.3	94	54.9	48.1	88	6	78-133/29
108-90-7	Chlorobenzene	ND		54.7	54.7	100	54.9	52.1	95	5	81-129/29
75-00-3	Chloroethane	ND		54.7	48.7	89	54.9	49.2	90	1	68-133/29
67-66-3	Chloroform	ND		54.7	54.7	100	54.9	49.2	90	11	72-123/26
95-49-8	o-Chlorotoluene	ND		54.7	57.0	104	54.9	56.5	103	1	77-129/33
106-43-4	p-Chlorotoluene	ND		54.7	55.9	102	54.9	58.3	106	4	80-134/33
124-48-1	Dibromochloromethane	ND		54.7	57.5	105	54.9	53.3	97	8	76-127/27
96-12-8	1,2-Dibromo-3-chloropropane	ND		54.7	59.1	108	54.9	46.6	85	24	70-137/29
106-93-4	1,2-Dibromoethane	ND		54.7	53.6	98	54.9	51.1	93	5	77-126/26
75-71-8	Dichlorodifluoromethane	ND		54.7	44.3	81	54.9	40.9	74	8	68-168/29
95-50-1	1,2-Dichlorobenzene	ND		54.7	58.2	106	54.9	54.3	99	7	80-129/32
541-73-1	1,3-Dichlorobenzene	ND		54.7	58.0	106	54.9	56.6	103	2	81-129/33
106-46-7	1,4-Dichlorobenzene	ND		54.7	58.9	108	54.9	56.6	103	4	76-130/32
75-34-3	1,1-Dichloroethane	ND		54.7	52.5	96	54.9	48.8	89	7	73-125/27
107-06-2	1,2-Dichloroethane	ND		54.7	57.6	105	54.9	53.8	98	7	74-128/23
75-35-4	1,1-Dichloroethylene	ND		54.7	49.7	91	54.9	46.3	84	7	81-136/28
156-59-2	cis-1,2-Dichloroethylene	ND		54.7	51.0	93	54.9	46.6	85	9	74-126/26
156-60-5	trans-1,2-Dichloroethylene	ND		54.7	53.5	98	54.9	50.5	92	6	70-127/27
78-87-5	1,2-Dichloropropane	ND		54.7	49.7	91	54.9	49.5	90	0	74-125/25
142-28-9	1,3-Dichloropropane	ND		54.7	50.7	93	54.9	49.5	90	2	76-122/26
594-20-7	2,2-Dichloropropane	ND		54.7	54.5	100	54.9	45.3	82	18	77-133/28
563-58-6	1,1-Dichloropropene	ND		54.7	50.4	92	54.9	47.2	86	7	75-130/28
10061-01-5	cis-1,3-Dichloropropene	ND		54.7	51.2	94	54.9	53.2	97	4	80-123/26
10061-02-6	trans-1,3-Dichloropropene	ND		54.7	53.3	97	54.9	54.8	100	3	75-131/28
108-20-3	Di-Isopropyl Ether	ND		54.7	51.0	93	54.9	48.7	89	5	75-122/25
100-41-4	Ethylbenzene	ND		54.7	55.9	102	54.9	51.1	93	9	77-123/31

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 3

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C47015-32MS	F0079474.D	1	09/10/16	AD	n/a	n/a	VF2731
C47015-32MSD	F0079475.D	1	09/10/16	AD	n/a	n/a	VF2731
C47015-32 ^a	F0079469.D	1	09/10/16	AD	n/a	n/a	VF2731

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-1, C47015-11, C47015-12, C47015-15, C47015-16, C47015-19, C47015-20, C47015-21, C47015-32

CAS No.	Compound	C47015-32 ug/kg	Spike Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
637-92-3	Ethyl Tert Butyl Ether	ND		54.7	54.6	100	54.9	49.4	90	10	75-117/24
87-68-3	Hexachlorobutadiene	ND		54.7	61.2	112	54.9	56.3	102	8	74-136/38
591-78-6	2-Hexanone	ND		274	275	101	275	260	95	6	72-133/26
98-82-8	Isopropylbenzene	ND		54.7	59.7	109	54.9	52.4	95	13	80-136/32
99-87-6	p-Isopropyltoluene	ND		54.7	56.3	103	54.9	56.4	103	0	77-131/34
74-83-9	Methyl Bromide	ND		54.7	50.2	92	54.9	47.2	86	6	65-139/31
74-87-3	Methyl Chloride	ND		54.7	45.8	84	54.9	43.6	79	5	71-144/27
74-95-3	Methylene Bromide	ND		54.7	57.1	104	54.9	53.4	97	7	74-124/24
75-09-2	Methylene Chloride	7.8	J	54.7	57.6	91	54.9	51.0	79	12	74-137/28
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		274	325	119	275	264	96	21	76-132/26
1634-04-4	Methyl Tert Butyl Ether	ND		54.7	55.5	101	54.9	48.9	89	13	77-120/24
91-20-3	Naphthalene	ND		54.7	61.9	113	54.9	52.4	95	17	79-129/33
103-65-1	n-Propylbenzene	ND		54.7	55.3	101	54.9	55.6	101	1	80-135/33
100-42-5	Styrene	ND		54.7	55.2	101	54.9	53.9	98	2	78-125/30
994-05-8	Tert-Amyl Methyl Ether	ND		54.7	55.6	102	54.9	49.8	91	11	69-130/23
75-65-0	Tert-Butyl Alcohol	ND		547	517	95	549	505	92	2	74-126/32
630-20-6	1,1,1,2-Tetrachloroethane	ND		54.7	57.5	105	54.9	49.8	91	14	78-126/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		54.7	50.7	93	54.9	47.8	87	6	71-126/30
127-18-4	Tetrachloroethylene	ND		54.7	58.2	106	54.9	53.8	98	8	79-130/31
108-88-3	Toluene	ND		54.7	52.8	97	54.9	47.7	87	10	76-124/30
87-61-6	1,2,3-Trichlorobenzene	ND		54.7	60.3	110	54.9	53.3	97	12	77-128/35
120-82-1	1,2,4-Trichlorobenzene	ND		54.7	67.6	124	54.9	57.2	104	17	78-130/34
71-55-6	1,1,1-Trichloroethane	ND		54.7	51.8	95	54.9	47.2	86	9	70-129/27
79-00-5	1,1,2-Trichloroethane	ND		54.7	53.2	97	54.9	50.0	91	6	74-124/28
79-01-6	Trichloroethylene	ND		54.7	52.3	96	54.9	51.2	93	2	75-128/27
75-69-4	Trichlorofluoromethane	ND		54.7	50.4	92	54.9	48.1	88	5	73-145/31
96-18-4	1,2,3-Trichloropropane	ND		54.7	52.8	97	54.9	50.1	91	5	74-127/27
95-63-6	1,2,4-Trimethylbenzene	ND		54.7	56.2	103	54.9	56.3	102	0	74-123/34
108-67-8	1,3,5-Trimethylbenzene	ND		54.7	56.6	103	54.9	55.9	102	1	73-122/33
75-01-4	Vinyl Chloride	ND		54.7	43.2	79	54.9	41.1	75*	5	76-141/27
1330-20-7	Xylene (total)	ND		164	172	105	165	155	94	10	80-129/30

CAS No.	Surrogate Recoveries	MS	MSD	C47015-32	Limits
1868-53-7	Dibromofluoromethane	106%	102%	123%	75-124%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 3 of 3

Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C47015-32MS	F0079474.D	1	09/10/16	AD	n/a	n/a	VF2731
C47015-32MSD	F0079475.D	1	09/10/16	AD	n/a	n/a	VF2731
C47015-32 ^a	F0079469.D	1	09/10/16	AD	n/a	n/a	VF2731

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-1, C47015-11, C47015-12, C47015-15, C47015-16, C47015-19, C47015-20, C47015-21, C47015-32

CAS No.	Surrogate Recoveries	MS	MSD	C47015-32	Limits
17060-07-0	1,2-Dichloroethane-D4	111%	107%	128%	72-135%
2037-26-5	Toluene-D8	101%	93%	93%	75-126%
460-00-4	4-Bromofluorobenzene	97%	103%	95%	71-133%

(a) Soil vials were not received within 48 hours of sampling; results are considered minimum values.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C47015-14MS	C0118012.D	1	09/12/16	EP	n/a	n/a	VC4681
C47015-14MSD	C0118013.D	1	09/12/16	EP	n/a	n/a	VC4681
C47015-14 ^a	C0117996.D	1	09/12/16	EP	n/a	n/a	VC4681

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-13, C47015-14, C47015-17, C47015-18, C47015-22, C47015-23

CAS No.	Compound	C47015-14 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		256	182	71	258	205	80	12	61-152/27
71-43-2	Benzene	ND		51.2	44.5	87	51.5	41.2	80	8	76-126/26
108-86-1	Bromobenzene	ND		51.2	44.1	86	51.5	39.6	77	11	76-122/32
74-97-5	Bromochloromethane	ND		51.2	46.7	91	51.5	44.0	85	6	77-120/24
75-27-4	Bromodichloromethane	ND		51.2	47.7	93	51.5	44.5	86	7	74-130/25
75-25-2	Bromoform	ND		51.2	47.1	92	51.5	42.8	83	10	76-127/26
78-93-3	2-Butanone (MEK)	ND		256	208	81	258	200	78	4	75-137/25
104-51-8	n-Butylbenzene	ND		51.2	43.6	85	51.5	38.0	74	14	71-128/35
135-98-8	sec-Butylbenzene	ND		51.2	43.6	85	51.5	38.3	74*	13	79-135/34
98-06-6	tert-Butylbenzene	ND		51.2	45.8	89	51.5	40.4	78	13	77-133/34
56-23-5	Carbon Tetrachloride	ND		51.2	42.9	84	51.5	39.1	76*	9	78-133/29
108-90-7	Chlorobenzene	ND		51.2	45.6	89	51.5	41.4	80*	10	81-129/29
75-00-3	Chloroethane	ND		51.2	33.7	66*	51.5	35.7	69	6	68-133/29
67-66-3	Chloroform	ND		51.2	46.1	90	51.5	42.8	83	7	72-123/26
95-49-8	o-Chlorotoluene	ND		51.2	45.5	89	51.5	40.0	78	13	77-129/33
106-43-4	p-Chlorotoluene	ND		51.2	44.7	87	51.5	39.3	76*	13	80-134/33
124-48-1	Dibromochloromethane	ND		51.2	47.8	93	51.5	43.7	85	9	76-127/27
96-12-8	1,2-Dibromo-3-chloropropane	ND		51.2	43.0	84	51.5	40.6	79	6	70-137/29
106-93-4	1,2-Dibromoethane	ND		51.2	44.5	87	51.5	41.5	81	7	77-126/26
75-71-8	Dichlorodifluoromethane	ND		51.2	33.5	65*	51.5	30.7	60*	9	68-168/29
95-50-1	1,2-Dichlorobenzene	ND		51.2	45.2	88	51.5	40.3	78*	11	80-129/32
541-73-1	1,3-Dichlorobenzene	ND		51.2	47.0	92	51.5	41.3	80*	13	81-129/33
106-46-7	1,4-Dichlorobenzene	ND		51.2	46.7	91	51.5	41.3	80	12	76-130/32
75-34-3	1,1-Dichloroethane	ND		51.2	38.2	75	51.5	41.7	81	9	73-125/27
107-06-2	1,2-Dichloroethane	ND		51.2	47.1	92	51.5	44.1	86	7	74-128/23
75-35-4	1,1-Dichloroethylene	ND		51.2	40.3	79*	51.5	36.5	71*	10	81-136/28
156-59-2	cis-1,2-Dichloroethylene	ND		51.2	43.0	84	51.5	41.1	80	5	74-126/26
156-60-5	trans-1,2-Dichloroethylene	ND		51.2	34.6	68*	51.5	37.3	72	8	70-127/27
78-87-5	1,2-Dichloropropane	ND		51.2	45.4	89	51.5	42.1	82	8	74-125/25
142-28-9	1,3-Dichloropropane	ND		51.2	44.2	86	51.5	40.6	79	8	76-122/26
594-20-7	2,2-Dichloropropane	ND		51.2	38.2	75*	51.5	35.5	69*	7	77-133/28
563-58-6	1,1-Dichloropropene	ND		51.2	41.4	81	51.5	37.9	74*	9	75-130/28
10061-01-5	cis-1,3-Dichloropropene	ND		51.2	43.7	85	51.5	42.3	82	3	80-123/26
10061-02-6	trans-1,3-Dichloropropene	ND		51.2	44.3	86	51.5	41.5	81	7	75-131/28
108-20-3	Di-Isopropyl Ether	ND		51.2	39.5	77	51.5	43.3	84	9	75-122/25
100-41-4	Ethylbenzene	ND		51.2	48.5	95	51.5	43.9	85	10	77-123/31

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 3

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C47015-14MS	C0118012.D	1	09/12/16	EP	n/a	n/a	VC4681
C47015-14MSD	C0118013.D	1	09/12/16	EP	n/a	n/a	VC4681
C47015-14 ^a	C0117996.D	1	09/12/16	EP	n/a	n/a	VC4681

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-13, C47015-14, C47015-17, C47015-18, C47015-22, C47015-23

CAS No.	Compound	C47015-14 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
637-92-3	Ethyl Tert Butyl Ether	ND		51.2	47.6	93	51.5	44.7	87	6	75-117/24
87-68-3	Hexachlorobutadiene	ND		51.2	42.8	84	51.5	35.5	69*	19	74-136/38
591-78-6	2-Hexanone	ND		256	212	83	258	204	79	4	72-133/26
98-82-8	Isopropylbenzene	ND		51.2	43.9	86	51.5	38.7	75*	13	80-136/32
99-87-6	p-Isopropyltoluene	ND		51.2	48.9	95	51.5	43.1	84	13	77-131/34
74-83-9	Methyl Bromide	ND		51.2	39.5	77	51.5	35.1	68	12	65-139/31
74-87-3	Methyl Chloride	ND		51.2	36.3	71	51.5	34.2	66*	6	71-144/27
74-95-3	Methylene Bromide	ND		51.2	45.5	89	51.5	43.6	85	4	74-124/24
75-09-2	Methylene Chloride	11.3		51.2	40.8	58*	51.5	40.4	56*	1	74-137/28
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		256	231	90	258	217	84	6	76-132/26
1634-04-4	Methyl Tert Butyl Ether	ND		51.2	40.6	79	51.5	44.6	87	9	77-120/24
91-20-3	Naphthalene	ND		51.2	42.4	83	51.5	39.3	76*	8	79-129/33
103-65-1	n-Propylbenzene	ND		51.2	48.7	95	51.5	42.9	83	13	80-135/33
100-42-5	Styrene	ND		51.2	44.9	88	51.5	41.5	81	8	78-125/30
994-05-8	Tert-Amyl Methyl Ether	ND		51.2	47.3	92	51.5	44.8	87	5	69-130/23
75-65-0	Tert-Butyl Alcohol	ND		512	523	102	515	434	84	19	74-126/32
630-20-6	1,1,1,2-Tetrachloroethane	ND		51.2	49.1	96	51.5	44.1	86	11	78-126/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		51.2	44.8	87	51.5	40.3	78	11	71-126/30
127-18-4	Tetrachloroethylene	ND		51.2	54.4	106	51.5	49.0	95	10	79-130/31
108-88-3	Toluene	ND		51.2	44.6	87	51.5	40.8	79	9	76-124/30
87-61-6	1,2,3-Trichlorobenzene	ND		51.2	39.2	77	51.5	35.0	68*	11	77-128/35
120-82-1	1,2,4-Trichlorobenzene	ND		51.2	36.1	70*	51.5	31.6	61*	13	78-130/34
71-55-6	1,1,1-Trichloroethane	ND		51.2	42.4	83	51.5	38.8	75	9	70-129/27
79-00-5	1,1,2-Trichloroethane	ND		51.2	46.8	91	51.5	42.9	83	9	74-124/28
79-01-6	Trichloroethylene	ND		51.2	45.2	88	51.5	41.6	81	8	75-128/27
75-69-4	Trichlorofluoromethane	ND		51.2	33.0	64*	51.5	31.1	60*	6	73-145/31
96-18-4	1,2,3-Trichloropropane	ND		51.2	46.6	91	51.5	41.6	81	11	74-127/27
95-63-6	1,2,4-Trimethylbenzene	ND		51.2	49.8	97	51.5	43.4	84	14	74-123/34
108-67-8	1,3,5-Trimethylbenzene	ND		51.2	49.3	96	51.5	42.8	83	14	73-122/33
75-01-4	Vinyl Chloride	ND		51.2	36.6	71*	51.5	33.8	66*	8	76-141/27
1330-20-7	Xylene (total)	ND		154	143	93	155	129	83	10	80-129/30

CAS No.	Surrogate Recoveries	MS	MSD	C47015-14	Limits
1868-53-7	Dibromofluoromethane	102%	105%	105%	75-124%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 3 of 3

Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCAR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C47015-14MS	C0118012.D	1	09/12/16	EP	n/a	n/a	VC4681
C47015-14MSD	C0118013.D	1	09/12/16	EP	n/a	n/a	VC4681
C47015-14 ^a	C0117996.D	1	09/12/16	EP	n/a	n/a	VC4681

The QC reported here applies to the following samples:

Method: SW846 8260B

C47015-13, C47015-14, C47015-17, C47015-18, C47015-22, C47015-23

CAS No.	Surrogate Recoveries	MS	MSD	C47015-14	Limits
17060-07-0	1,2-Dichloroethane-D4	100%	103%	103%	72-135%
2037-26-5	Toluene-D8	98%	97%	94%	75-126%
460-00-4	4-Bromofluorobenzene	100%	97%	97%	71-133%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values.

* = Outside of Control Limits.

GC/MS Semi-volatiles

QC Data Summaries

(SGS Accutest Southeast)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

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Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCAR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61812-MB	X048968.D	1	09/12/16	MV	09/09/16	OP61812	SX2120

The QC reported here applies to the following samples:

Method: SW846 8270D

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19, C47015-20

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	21	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	19	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	18	ug/kg	
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	67	ug/kg	

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Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61812-MB	X048968.D	1	09/12/16	MV	09/09/16	OP61812	SX2120

The QC reported here applies to the following samples:

Method: SW846 8270D

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19, C47015-20

CAS No.	Compound	Result	RL	MDL	Units	Q
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	64% 40-102%
4165-62-2	Phenol-d5	71% 41-100%
118-79-6	2,4,6-Tribromophenol	58% 42-108%
4165-60-0	Nitrobenzene-d5	63% 40-105%
321-60-8	2-Fluorobiphenyl	66% 43-107%
1718-51-0	Terphenyl-d14	69% 45-119%

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Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCAR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61834-MB	X049004.D	1	09/13/16	MV	09/12/16	OP61834	SX2121

The QC reported here applies to the following samples:

Method: SW846 8270D

C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	170	25	ug/kg	
95-57-8	2-Chlorophenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	18	ug/kg	
	3&4-Methylphenol	ND	170	39	ug/kg	
88-75-5	2-Nitrophenol	ND	170	21	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
62-53-3	Aniline	ND	170	33	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
86-74-8	Carbazole	ND	170	19	ug/kg	
106-47-8	4-Chloroaniline	ND	170	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	25	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	30	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	21	ug/kg	
132-64-9	Dibenzofuran	ND	170	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	18	ug/kg	
84-66-2	Diethyl Phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl Phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	330	67	ug/kg	

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Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61834-MB	X049004.D	1	09/13/16	MV	09/12/16	OP61834	SX2121

The QC reported here applies to the following samples:

Method: SW846 8270D

C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

CAS No.	Compound	Result	RL	MDL	Units	Q
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	28	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	28	ug/kg	
98-95-3	Nitrobenzene	ND	170	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	40	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	170	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	32	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/kg	

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	57% 40-102%
4165-62-2	Phenol-d5	62% 41-100%
118-79-6	2,4,6-Tribromophenol	83% 42-108%
4165-60-0	Nitrobenzene-d5	54% 40-105%
321-60-8	2-Fluorobiphenyl	60% 43-107%
1718-51-0	Terphenyl-d14	65% 45-119%

Method Blank Summary

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Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61814-MB	W094886.D	1	09/12/16	MG	09/10/16	OP61814	SW4252

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19, C47015-20

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	67	27	ug/kg	
208-96-8	Acenaphthylene	ND	67	27	ug/kg	
120-12-7	Anthracene	ND	67	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.3	ug/kg	
218-01-9	Chrysene	ND	13	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.3	ug/kg	
206-44-0	Fluoranthene	ND	67	17	ug/kg	
86-73-7	Fluorene	ND	67	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.3	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	27	ug/kg	
91-20-3	Naphthalene	ND	67	27	ug/kg	
85-01-8	Phenanthrene	ND	67	17	ug/kg	
129-00-0	Pyrene	ND	67	17	ug/kg	

CAS No.	Surrogate Recoveries	Limits
4165-60-0	Nitrobenzene-d5	82% 40-105%
321-60-8	2-Fluorobiphenyl	82% 43-107%
1718-51-0	Terphenyl-d14	89% 45-119%

7.1.3

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Method Blank Summary

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Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCAR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61828-MB	W094930.D	1	09/13/16	MG	09/12/16	OP61828	SW4253

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	67	27	ug/kg	
208-96-8	Acenaphthylene	ND	67	27	ug/kg	
120-12-7	Anthracene	ND	67	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.3	ug/kg	
218-01-9	Chrysene	ND	13	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.3	ug/kg	
206-44-0	Fluoranthene	ND	67	17	ug/kg	
86-73-7	Fluorene	ND	67	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.3	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	27	ug/kg	
91-20-3	Naphthalene	ND	67	27	ug/kg	
85-01-8	Phenanthrene	ND	67	17	ug/kg	
129-00-0	Pyrene	ND	67	17	ug/kg	

CAS No.	Surrogate Recoveries	Limits
4165-60-0	Nitrobenzene-d5	81% 40-105%
321-60-8	2-Fluorobiphenyl	89% 43-107%
1718-51-0	Terphenyl-d14	81% 45-119%

7.1.4

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Blank Spike Summary

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Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61812-BS	X048967.D	1	09/12/16	MV	09/09/16	OP61812	SX2120

The QC reported here applies to the following samples:

Method: SW846 8270D

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19, C47015-20

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic Acid	3330	3020	91	36-118
59-50-7	4-Chloro-3-methyl Phenol	1670	1460	88	52-108
95-57-8	2-Chlorophenol	1670	1300	78	48-104
120-83-2	2,4-Dichlorophenol	1670	1300	78	51-105
105-67-9	2,4-Dimethylphenol	1670	1180	71	43-96
51-28-5	2,4-Dinitrophenol	3330	2310	69	40-119
534-52-1	4,6-Dinitro-o-cresol	3330	2860	86	64-121
95-48-7	2-Methylphenol	1670	1320	79	46-107
	3&4-Methylphenol	3330	2680	80	44-111
88-75-5	2-Nitrophenol	1670	1280	77	49-104
100-02-7	4-Nitrophenol	3330	2630	79	56-116
87-86-5	Pentachlorophenol	3330	3010	90	61-114
108-95-2	Phenol	1670	1390	83	45-110
95-95-4	2,4,5-Trichlorophenol	1670	1500	90	58-112
88-06-2	2,4,6-Trichlorophenol	1670	1420	85	56-109
62-53-3	Aniline	1670	1300	78	42-108
100-51-6	Benzyl Alcohol	1670	1370	82	53-108
101-55-3	4-Bromophenyl phenyl ether	1670	1380	83	62-110
85-68-7	Butyl benzyl phthalate	1670	1610	97	65-113
86-74-8	Carbazole	1670	1420	85	60-111
106-47-8	4-Chloroaniline	1670	1270	76	30-115
111-91-1	bis(2-Chloroethoxy)methane	1670	1350	81	48-105
111-44-4	bis(2-Chloroethyl)ether	1670	1260	76	46-103
108-60-1	bis(2-Chloroisopropyl)ether	1670	1480	89	40-110
91-58-7	2-Chloronaphthalene	1670	1420	85	53-106
7005-72-3	4-Chlorophenyl phenyl ether	1670	1450	87	58-106
132-64-9	Dibenzofuran	1670	1390	83	57-108
95-50-1	1,2-Dichlorobenzene	1670	1210	73	44-102
541-73-1	1,3-Dichlorobenzene	1670	1200	72	42-100
106-46-7	1,4-Dichlorobenzene	1670	1210	73	40-106
91-94-1	3,3'-Dichlorobenzidine	1670	1290	77	36-114
84-66-2	Diethyl Phthalate	1670	1450	87	61-109
131-11-3	Dimethyl Phthalate	1670	1460	88	59-108
117-84-0	Di-n-octyl Phthalate	1670	1970	118	64-119
84-74-2	Di-n-butyl Phthalate	1670	1480	89	63-108
121-14-2	2,4-Dinitrotoluene	1670	1570	94	59-109

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61812-BS	X048967.D	1	09/12/16	MV	09/09/16	OP61812	SX2120

The QC reported here applies to the following samples:

Method: SW846 8270D

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19, C47015-20

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
606-20-2	2,6-Dinitrotoluene	1670	1470	88	61-107
122-66-7	1,2-Diphenylhydrazine	1670	1640	98	58-112
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1660	100	64-115
118-74-1	Hexachlorobenzene	1670	1390	83	59-111
87-68-3	Hexachlorobutadiene	1670	1230	74	41-108
77-47-4	Hexachlorocyclopentadiene	1670	1440	86	49-110
67-72-1	Hexachloroethane	1670	1250	75	40-105
78-59-1	Isophorone	1670	1390	83	42-89
88-74-4	2-Nitroaniline	1670	1660	100	56-123
99-09-2	3-Nitroaniline	1670	1320	79	41-111
100-01-6	4-Nitroaniline	1670	1440	86	54-113
98-95-3	Nitrobenzene	1670	1380	83	43-108
62-75-9	N-Nitrosodimethylamine	1670	1240	74	40-106
621-64-7	N-Nitrosodi-n-propylamine	1670	1420	85	48-108
86-30-6	N-Nitrosodiphenylamine	1670	1500	90	62-110
110-86-1	Pyridine	1670	1020	61	31-102
120-82-1	1,2,4-Trichlorobenzene	1670	1200	72	45-100

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	74%	40-102%
4165-62-2	Phenol-d5	80%	41-100%
118-79-6	2,4,6-Tribromophenol	77%	42-108%
4165-60-0	Nitrobenzene-d5	76%	40-105%
321-60-8	2-Fluorobiphenyl	79%	43-107%
1718-51-0	Terphenyl-d14	89%	45-119%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 2

Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCAR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61834-BS	X049003.D	1	09/13/16	MV	09/12/16	OP61834	SX2121

The QC reported here applies to the following samples:

Method: SW846 8270D

C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic Acid	3330	2420	73	36-118
59-50-7	4-Chloro-3-methyl Phenol	1670	1190	71	52-108
95-57-8	2-Chlorophenol	1670	1080	65	48-104
120-83-2	2,4-Dichlorophenol	1670	1230	74	51-105
105-67-9	2,4-Dimethylphenol	1670	1040	62	43-96
51-28-5	2,4-Dinitrophenol	3330	2370	71	40-119
534-52-1	4,6-Dinitro-o-cresol	3330	2640	79	64-121
95-48-7	2-Methylphenol	1670	1060	64	46-107
	3&4-Methylphenol	3330	2170	65	44-111
88-75-5	2-Nitrophenol	1670	1190	71	49-104
100-02-7	4-Nitrophenol	3330	1900	57	56-116
87-86-5	Pentachlorophenol	3330	2930	88	61-114
108-95-2	Phenol	1670	1100	66	45-110
95-95-4	2,4,5-Trichlorophenol	1670	1310	79	58-112
88-06-2	2,4,6-Trichlorophenol	1670	1270	76	56-109
62-53-3	Aniline	1670	1070	64	42-108
92-87-5	Benzidine	1670	599	36	10-109
100-51-6	Benzyl Alcohol	1670	1110	67	53-108
101-55-3	4-Bromophenyl phenyl ether	1670	1400	84	62-110
85-68-7	Butyl benzyl phthalate	1670	1300	78	65-113
86-74-8	Carbazole	1670	1310	79	60-111
106-47-8	4-Chloroaniline	1670	1210	73	30-115
111-91-1	bis(2-Chloroethoxy)methane	1670	1220	73	48-105
111-44-4	bis(2-Chloroethyl)ether	1670	1080	65	46-103
108-60-1	bis(2-Chloroisopropyl)ether	1670	1180	71	40-110
91-58-7	2-Chloronaphthalene	1670	1210	73	53-106
7005-72-3	4-Chlorophenyl phenyl ether	1670	1300	78	58-106
132-64-9	Dibenzofuran	1670	1290	77	57-108
95-50-1	1,2-Dichlorobenzene	1670	1110	67	44-102
541-73-1	1,3-Dichlorobenzene	1670	1080	65	42-100
106-46-7	1,4-Dichlorobenzene	1670	1090	65	40-106
91-94-1	3,3'-Dichlorobenzidine	1670	1190	71	36-114
84-66-2	Diethyl Phthalate	1670	1290	77	61-109
131-11-3	Dimethyl Phthalate	1670	1190	71	59-108
117-84-0	Di-n-octyl Phthalate	1670	1320	79	64-119
84-74-2	Di-n-butyl Phthalate	1670	1300	78	63-108

* = Outside of Control Limits.

Blank Spike Summary

Page 2 of 2

Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61834-BS	X049003.D	1	09/13/16	MV	09/12/16	OP61834	SX2121

The QC reported here applies to the following samples:

Method: SW846 8270D

C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	1670	1220	73	59-109
606-20-2	2,6-Dinitrotoluene	1670	1190	71	61-107
122-66-7	1,2-Diphenylhydrazine	1670	1270	76	58-112
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1300	78	64-115
118-74-1	Hexachlorobenzene	1670	1590	95	59-111
87-68-3	Hexachlorobutadiene	1670	1280	77	41-108
77-47-4	Hexachlorocyclopentadiene	1670	1390	83	49-110
67-72-1	Hexachloroethane	1670	1070	64	40-105
78-59-1	Isophorone	1670	1210	73	42-89
88-74-4	2-Nitroaniline	1670	1250	75	56-123
99-09-2	3-Nitroaniline	1670	1130	68	41-111
100-01-6	4-Nitroaniline	1670	1230	74	54-113
98-95-3	Nitrobenzene	1670	1180	71	43-108
62-75-9	N-Nitrosodimethylamine	1670	1020	61	40-106
621-64-7	N-Nitrosodi-n-propylamine	1670	1070	64	48-108
86-30-6	N-Nitrosodiphenylamine	1670	1290	77	62-110
110-86-1	Pyridine	1670	944	57	31-102
120-82-1	1,2,4-Trichlorobenzene	1670	1190	71	45-100

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	63%	40-102%
4165-62-2	Phenol-d5	68%	41-100%
118-79-6	2,4,6-Tribromophenol	94%	42-108%
4165-60-0	Nitrobenzene-d5	67%	40-105%
321-60-8	2-Fluorobiphenyl	69%	43-107%
1718-51-0	Terphenyl-d14	88%	45-119%

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCAR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61814-BS	W094885.D	1	09/12/16	MG	09/10/16	OP61814	SW4252

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19, C47015-20

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	667	512	77	53-100
208-96-8	Acenaphthylene	667	515	77	51-100
120-12-7	Anthracene	333	231	69	60-102
56-55-3	Benzo(a)anthracene	333	259	78	60-106
50-32-8	Benzo(a)pyrene	333	269	81	58-105
205-99-2	Benzo(b)fluoranthene	333	298	89	59-112
191-24-2	Benzo(g,h,i)perylene	333	275	82	56-109
207-08-9	Benzo(k)fluoranthene	333	288	86	58-109
218-01-9	Chrysene	333	287	86	62-104
53-70-3	Dibenzo(a,h)anthracene	333	301	90	55-110
206-44-0	Fluoranthene	667	461	69	59-109
86-73-7	Fluorene	667	536	80	56-104
193-39-5	Indeno(1,2,3-cd)pyrene	333	302	91	54-110
90-12-0	1-Methylnaphthalene	667	500	75	50-101
91-57-6	2-Methylnaphthalene	667	455	68	49-100
91-20-3	Naphthalene	667	451	68	49-101
85-01-8	Phenanthrene	667	503	75	57-104
129-00-0	Pyrene	667	462	69	58-106

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	84%	40-105%
321-60-8	2-Fluorobiphenyl	82%	43-107%
1718-51-0	Terphenyl-d14	83%	45-119%

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61828-BS	W094929.D	1	09/13/16	MG	09/12/16	OP61828	SW4253

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	667	615	92	53-100
208-96-8	Acenaphthylene	667	573	86	51-100
120-12-7	Anthracene	333	327	98	60-102
56-55-3	Benzo(a)anthracene	333	251	75	60-106
50-32-8	Benzo(a)pyrene	333	255	76	58-105
205-99-2	Benzo(b)fluoranthene	333	295	88	59-112
191-24-2	Benzo(g,h,i)perylene	333	285	85	56-109
207-08-9	Benzo(k)fluoranthene	333	296	89	58-109
218-01-9	Chrysene	333	320	96	62-104
53-70-3	Dibenzo(a,h)anthracene	333	301	90	55-110
206-44-0	Fluoranthene	667	596	89	59-109
86-73-7	Fluorene	667	664	100	56-104
193-39-5	Indeno(1,2,3-cd)pyrene	333	288	86	54-110
90-12-0	1-Methylnaphthalene	667	497	75	50-101
91-57-6	2-Methylnaphthalene	667	505	76	49-100
91-20-3	Naphthalene	667	512	77	49-101
85-01-8	Phenanthrene	667	618	93	57-104
129-00-0	Pyrene	667	550	82	58-106

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	83%	40-105%
321-60-8	2-Fluorobiphenyl	88%	43-107%
1718-51-0	Terphenyl-d14	92%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61812-MS	X048974.D	1	09/12/16	MV	09/09/16	OP61812	SX2120
OP61812-MSD	X048975.D	1	09/12/16	MV	09/09/16	OP61812	SX2120
C47015-4	X048973.D	1	09/12/16	MV	09/09/16	OP61812	SX2120

The QC reported here applies to the following samples:

Method: SW846 8270D

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19, C47015-20

CAS No.	Compound	C47015-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		3280	2210	67	3300	2090	63	6	36-118/41
59-50-7	4-Chloro-3-methyl Phenol	ND		1640	1440	88	1650	1320	80	9	52-108/21
95-57-8	2-Chlorophenol	ND		1640	1280	78	1650	1200	73	6	48-104/26
120-83-2	2,4-Dichlorophenol	ND		1640	1320	81	1650	1230	75	7	51-105/27
105-67-9	2,4-Dimethylphenol	ND		1640	1230	75	1650	1160	70	6	43-96/23
51-28-5	2,4-Dinitrophenol	ND		3280	1890	58	3300	1730	52	9	40-119/32
534-52-1	4,6-Dinitro-o-cresol	ND		3280	2370	72	3300	2240	68	6	64-121/29
95-48-7	2-Methylphenol	ND		1640	1310	80	1650	1220	74	7	46-107/24
	3&4-Methylphenol	ND		3280	2720	83	3300	2500	76	8	44-111/24
88-75-5	2-Nitrophenol	ND		1640	1280	78	1650	1200	73	6	49-104/27
100-02-7	4-Nitrophenol	ND		3280	2610	80	3300	2400	73	8	56-116/23
87-86-5	Pentachlorophenol	ND		3280	2670	81	3300	2380	72	11	61-114/23
108-95-2	Phenol	ND		1640	1380	84	1650	1290	78	7	45-110/24
95-95-4	2,4,5-Trichlorophenol	ND		1640	1440	88	1650	1360	82	6	58-112/22
88-06-2	2,4,6-Trichlorophenol	ND		1640	1370	84	1650	1310	79	4	56-109/25
62-53-3	Aniline	ND		1640	1300	79	1650	1250	76	4	42-108/28
92-87-5	Benzidine	ND		1640	1080	66	1650	1110	67	3	10-109/35
100-51-6	Benzyl Alcohol	ND		1640	1370	84	1650	1300	79	5	53-108/24
101-55-3	4-Bromophenyl phenyl ether	ND		1640	1320	81	1650	1260	76	5	62-110/21
85-68-7	Butyl benzyl phthalate	ND		1640	1740	106	1650	1670	101	4	65-113/20
86-74-8	Carbazole	ND		1640	1450	88	1650	1390	84	4	60-111/19
106-47-8	4-Chloroaniline	ND		1640	1160	71	1650	1130	68	3	30-115/30
111-91-1	bis(2-Chloroethoxy)methane	ND		1640	1350	82	1650	1290	78	5	48-105/24
111-44-4	bis(2-Chloroethyl)ether	ND		1640	1250	76	1650	1220	74	2	46-103/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		1640	1440	88	1650	1410	85	2	40-110/25
91-58-7	2-Chloronaphthalene	ND		1640	1350	82	1650	1310	79	3	53-106/23
7005-72-3	4-Chlorophenyl phenyl ether	ND		1640	1370	84	1650	1260	76	8	58-106/21
132-64-9	Dibenzofuran	ND		1640	1420	87	1650	1360	82	4	57-108/22
95-50-1	1,2-Dichlorobenzene	ND		1640	1190	73	1650	1150	70	3	44-102/28
541-73-1	1,3-Dichlorobenzene	ND		1640	1160	71	1650	1140	69	2	42-100/30
106-46-7	1,4-Dichlorobenzene	ND		1640	1180	72	1650	1160	70	2	40-106/29
91-94-1	3,3'-Dichlorobenzidine	ND		1640	1450	88	1650	1360	82	6	36-114/28
84-66-2	Diethyl Phthalate	ND		1640	1490	91	1650	1390	84	7	61-109/20
131-11-3	Dimethyl Phthalate	ND		1640	1450	88	1650	1360	82	6	59-108/20
117-84-0	Di-n-octyl Phthalate	ND		1640	2000	122*	1650	1960	119	2	64-119/21
84-74-2	Di-n-butyl Phthalate	ND		1640	1540	94	1650	1440	87	7	63-108/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61812-MS	X048974.D	1	09/12/16	MV	09/09/16	OP61812	SX2120
OP61812-MSD	X048975.D	1	09/12/16	MV	09/09/16	OP61812	SX2120
C47015-4	X048973.D	1	09/12/16	MV	09/09/16	OP61812	SX2120

The QC reported here applies to the following samples:

Method: SW846 8270D

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19, C47015-20

7.3.1

7

CAS No.	Compound	C47015-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
121-14-2	2,4-Dinitrotoluene	ND		1640	1600	98	1650	1470	89	8	59-109/20
606-20-2	2,6-Dinitrotoluene	ND		1640	1440	88	1650	1360	82	6	61-107/22
122-66-7	1,2-Diphenylhydrazine	ND		1640	1580	96	1650	1520	92	4	58-112/22
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1640	1800	110	1650	1720	104	5	64-115/23
118-74-1	Hexachlorobenzene	ND		1640	1340	82	1650	1230	75	9	59-111/21
87-68-3	Hexachlorobutadiene	ND		1640	1170	71	1650	1140	69	3	41-108/27
77-47-4	Hexachlorocyclopentadiene	ND		1640	773	47*	1650	822	50	6	49-110/31
67-72-1	Hexachloroethane	ND		1640	1160	71	1650	1150	70	1	40-105/32
78-59-1	Isophorone	ND		1640	1360	83	1650	1300	79	5	42-89/22
88-74-4	2-Nitroaniline	ND		1640	1630	99	1650	1570	95	4	56-123/24
99-09-2	3-Nitroaniline	ND		1640	1370	84	1650	1330	81	3	41-111/25
100-01-6	4-Nitroaniline	ND		1640	1370	84	1650	1280	78	7	54-113/22
98-95-3	Nitrobenzene	ND		1640	1350	82	1650	1300	79	4	43-108/25
62-75-9	N-Nitrosodimethylamine	ND		1640	1160	71	1650	1180	72	2	40-106/27
621-64-7	N-Nitrosodi-n-propylamine	ND		1640	1400	85	1650	1300	79	7	48-108/27
86-30-6	N-Nitrosodiphenylamine	ND		1640	1470	90	1650	1390	84	6	62-110/21
110-86-1	Pyridine	ND		1640	926	56	1650	948	57	2	31-102/38
120-82-1	1,2,4-Trichlorobenzene	ND		1640	1180	72	1650	1130	68	4	45-100/26

CAS No.	Surrogate Recoveries	MS	MSD	C47015-4	Limits
367-12-4	2-Fluorophenol	75%	71%	80%	40-102%
4165-62-2	Phenol-d5	81%	76%	89%	41-100%
118-79-6	2,4,6-Tribromophenol	75%	70%	73%	42-108%
4165-60-0	Nitrobenzene-d5	74%	72%	78%	40-105%
321-60-8	2-Fluorobiphenyl	74%	72%	77%	43-107%
1718-51-0	Terphenyl-d14	92%	87%	81%	45-119%

* = Outside of Control Limits.



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ACCUTEST
C47015

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61834-MS	X049018.D	1	09/13/16	MV	09/12/16	OP61834	SX2121
OP61834-MSD	X049019.D	1	09/13/16	MV	09/12/16	OP61834	SX2121
C47015-32	X049017.D	1	09/13/16	MV	09/12/16	OP61834	SX2121

The QC reported here applies to the following samples:

Method: SW846 8270D

C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

CAS No.	Compound	C47015-32 ug/kg	Spike Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		3310	1710	52	3330	1970	59	14	36-118/41
59-50-7	4-Chloro-3-methyl Phenol	ND		1660	1270	77	1670	1320	79	4	52-108/21
95-57-8	2-Chlorophenol	ND		1660	1140	69	1670	1200	72	5	48-104/26
120-83-2	2,4-Dichlorophenol	ND		1660	1340	81	1670	1390	83	4	51-105/27
105-67-9	2,4-Dimethylphenol	ND		1660	1090	66	1670	1150	69	5	43-96/23
51-28-5	2,4-Dinitrophenol	ND		3310	1990	60	3330	2270	68	13	40-119/32
534-52-1	4,6-Dinitro-o-cresol	ND		3310	2550	77	3330	2760	83	8	64-121/29
95-48-7	2-Methylphenol	ND		1660	1110	67	1670	1160	70	4	46-107/24
	3&4-Methylphenol	ND		3310	2260	68	3330	2340	70	3	44-111/24
88-75-5	2-Nitrophenol	ND		1660	1240	75	1670	1300	78	5	49-104/27
100-02-7	4-Nitrophenol	ND		3310	2120	64	3330	2210	66	4	56-116/23
87-86-5	Pentachlorophenol	ND		3310	3310	100	3330	3530	106	6	61-114/23
108-95-2	Phenol	ND		1660	1150	69	1670	1200	72	4	45-110/24
95-95-4	2,4,5-Trichlorophenol	ND		1660	1450	88	1670	1510	91	4	58-112/22
88-06-2	2,4,6-Trichlorophenol	ND		1660	1370	83	1670	1430	86	4	56-109/25
62-53-3	Aniline	ND		1660	1120	68	1670	1180	71	5	42-108/28
92-87-5	Benzidine	ND		1660	668	40	1670	820	49	20	10-109/35
100-51-6	Benzyl Alcohol	ND		1660	1130	68	1670	1190	71	5	53-108/24
101-55-3	4-Bromophenyl phenyl ether	ND		1660	1520	92	1670	1580	95	4	62-110/21
85-68-7	Butyl benzyl phthalate	ND		1660	1330	80	1670	1360	82	2	65-113/20
86-74-8	Carbazole	ND		1660	1370	83	1670	1430	86	4	60-111/19
106-47-8	4-Chloroaniline	ND		1660	1220	74	1670	1270	76	4	30-115/30
111-91-1	bis(2-Chloroethoxy)methane	ND		1660	1240	75	1670	1290	77	4	48-105/24
111-44-4	bis(2-Chloroethyl)ether	ND		1660	1050	63	1670	1130	68	7	46-103/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		1660	1120	68	1670	1180	71	5	40-110/25
91-58-7	2-Chloronaphthalene	ND		1660	1250	75	1670	1320	79	5	53-106/23
7005-72-3	4-Chlorophenyl phenyl ether	ND		1660	1310	79	1670	1390	83	6	58-106/21
132-64-9	Dibenzofuran	ND		1660	1330	80	1670	1400	84	5	57-108/22
95-50-1	1,2-Dichlorobenzene	ND		1660	1090	66	1670	1160	70	6	44-102/28
541-73-1	1,3-Dichlorobenzene	ND		1660	1070	65	1670	1140	68	6	42-100/30
106-46-7	1,4-Dichlorobenzene	ND		1660	1090	66	1670	1160	70	6	40-106/29
91-94-1	3,3'-Dichlorobenzidine	ND		1660	1330	80	1670	1430	86	7	36-114/28
84-66-2	Diethyl Phthalate	ND		1660	1330	80	1670	1390	83	4	61-109/20
131-11-3	Dimethyl Phthalate	ND		1660	1330	80	1670	1400	84	5	59-108/20
117-84-0	Di-n-octyl Phthalate	ND		1660	1370	83	1670	1380	83	1	64-119/21
84-74-2	Di-n-butyl Phthalate	ND		1660	1350	82	1670	1430	86	6	63-108/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61834-MS	X049018.D	1	09/13/16	MV	09/12/16	OP61834	SX2121
OP61834-MSD	X049019.D	1	09/13/16	MV	09/12/16	OP61834	SX2121
C47015-32	X049017.D	1	09/13/16	MV	09/12/16	OP61834	SX2121

The QC reported here applies to the following samples:

Method: SW846 8270D

C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

CAS No.	Compound	C47015-32 ug/kg	Spike Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
121-14-2	2,4-Dinitrotoluene	ND		1660	1290	78	1670	1360	82	5	59-109/20
606-20-2	2,6-Dinitrotoluene	ND		1660	1300	79	1670	1390	83	7	61-107/22
122-66-7	1,2-Diphenylhydrazine	ND		1660	1300	79	1670	1350	81	4	58-112/22
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1660	1340	81	1670	1380	83	3	64-115/23
118-74-1	Hexachlorobenzene	ND		1660	1760	106	1670	1820	109	3	59-111/21
87-68-3	Hexachlorobutadiene	ND		1660	1290	78	1670	1350	81	5	41-108/27
77-47-4	Hexachlorocyclopentadiene	ND		1660	1310	79	1670	1370	82	4	49-110/31
67-72-1	Hexachloroethane	ND		1660	1030	62	1670	1100	66	7	40-105/32
78-59-1	Isophorone	ND		1660	1220	74	1670	1260	76	3	42-89/22
88-74-4	2-Nitroaniline	ND		1660	1280	77	1670	1340	80	5	56-123/24
99-09-2	3-Nitroaniline	ND		1660	1250	75	1670	1300	78	4	41-111/25
100-01-6	4-Nitroaniline	ND		1660	1250	75	1670	1310	79	5	54-113/22
98-95-3	Nitrobenzene	ND		1660	1190	72	1670	1240	74	4	43-108/25
62-75-9	N-Nitrosodimethylamine	ND		1660	909	55	1670	952	57	5	40-106/27
621-64-7	N-Nitrosodi-n-propylamine	ND		1660	1080	65	1670	1110	67	3	48-108/27
86-30-6	N-Nitrosodiphenylamine	ND		1660	1380	83	1670	1430	86	4	62-110/21
110-86-1	Pyridine	ND		1660	827	50	1670	893	54	8	31-102/38
120-82-1	1,2,4-Trichlorobenzene	ND		1660	1240	75	1670	1300	78	5	45-100/26

CAS No.	Surrogate Recoveries	MS	MSD	C47015-32	Limits
367-12-4	2-Fluorophenol	64%	66%	63%	40-102%
4165-62-2	Phenol-d5	69%	71%	70%	41-100%
118-79-6	2,4,6-Tribromophenol	105%	109%*	103%	42-108%
4165-60-0	Nitrobenzene-d5	66%	68%	64%	40-105%
321-60-8	2-Fluorobiphenyl	73%	75%	72%	43-107%
1718-51-0	Terphenyl-d14	86%	86%	84%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61814-MS	W094890.D	1	09/12/16	MG	09/10/16	OP61814	SW4252
OP61814-MSD	W094891.D	1	09/12/16	MG	09/10/16	OP61814	SW4252
C47015-3	W094889.D	1	09/12/16	MG	09/10/16	OP61814	SW4252

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19, C47015-20

7.3.3

7

CAS No.	Compound	C47015-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		676	571	85	667	553	83	3	53-100/28
208-96-8	Acenaphthylene	ND		676	542	80	667	598	90	10	51-100/25
120-12-7	Anthracene	ND		338	301	89	333	304	91	1	60-102/29
56-55-3	Benzo(a)anthracene	ND		338	300	89	333	319	96	6	60-106/30
50-32-8	Benzo(a)pyrene	ND		338	320	95	333	239	72	29	58-105/30
205-99-2	Benzo(b)fluoranthene	ND		338	347	103	333	286	86	19	59-112/33
191-24-2	Benzo(g,h,i)perylene	ND		338	207	61	333	173	52*	18	56-109/31
207-08-9	Benzo(k)fluoranthene	ND		338	408	121*	333	304	91	29	58-109/33
218-01-9	Chrysene	ND		338	333	99	333	312	94	7	62-104/30
53-70-3	Dibenzo(a,h)anthracene	ND		338	249	74	333	222	67	11	55-110/31
206-44-0	Fluoranthene	ND		676	618	91	667	582	87	6	59-109/29
86-73-7	Fluorene	ND		676	584	86	667	612	92	5	56-104/27
193-39-5	Indeno(1,2,3-cd)pyrene	ND		338	238	70	333	224	67	6	54-110/32
90-12-0	1-Methylnaphthalene	ND		676	523	77	667	573	86	9	50-101/30
91-57-6	2-Methylnaphthalene	ND		676	489	72	667	554	83	12	49-100/26
91-20-3	Naphthalene	ND		676	563	83	667	525	79	7	49-101/28
85-01-8	Phenanthrene	ND		676	612	91	667	586	88	4	57-104/27
129-00-0	Pyrene	ND		676	507	75	667	560	84	10	58-106/29

CAS No.	Surrogate Recoveries	MS	MSD	C47015-3	Limits
4165-60-0	Nitrobenzene-d5	92%	90%	84%	40-105%
321-60-8	2-Fluorobiphenyl	90%	86%	87%	43-107%
1718-51-0	Terphenyl-d14	91%	94%	89%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61828-MS	W094949.D	1	09/13/16	MG	09/12/16	OP61828	SW4253
OP61828-MSD	W094950.D	1	09/13/16	MG	09/12/16	OP61828	SW4253
C47015-26	W094948.D	1	09/13/16	MG	09/12/16	OP61828	SW4253

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

7.3.4

7

CAS No.	Compound	C47015-26 ug/kg	Spike Q	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND	676	479	71	667	494	74	3	53-100/28
208-96-8	Acenaphthylene	ND	676	456	67	667	497	75	9	51-100/25
120-12-7	Anthracene	ND	338	261	77	333	274	82	5	60-102/29
56-55-3	Benzo(a)anthracene	ND	338	267	79	333	283	85	6	60-106/30
50-32-8	Benzo(a)pyrene	ND	338	236	70	333	282	85	18	58-105/30
205-99-2	Benzo(b)fluoranthene	ND	338	244	72	333	319	96	27	59-112/33
191-24-2	Benzo(g,h,i)perylene	ND	338	236	70	333	290	87	21	56-109/31
207-08-9	Benzo(k)fluoranthene	ND	338	277	82	333	312	94	12	58-109/33
218-01-9	Chrysene	ND	338	286	85	333	321	96	12	62-104/30
53-70-3	Dibenzo(a,h)anthracene	ND	338	257	76	333	296	89	14	55-110/31
206-44-0	Fluoranthene	ND	676	507	75	667	600	90	17	59-109/29
86-73-7	Fluorene	ND	676	510	75	667	527	79	3	56-104/27
193-39-5	Indeno(1,2,3-cd)pyrene	ND	338	278	82	333	297	89	7	54-110/32
90-12-0	1-Methylnaphthalene	ND	676	455	67	667	477	72	5	50-101/30
91-57-6	2-Methylnaphthalene	ND	676	465	69	667	499	75	7	49-100/26
91-20-3	Naphthalene	ND	676	469	69	667	468	70	0	49-101/28
85-01-8	Phenanthrene	ND	676	522	77	667	598	90	14	57-104/27
129-00-0	Pyrene	ND	676	459	68	667	525	79	13	58-106/29

CAS No.	Surrogate Recoveries	MS	MSD	C47015-26	Limits
4165-60-0	Nitrobenzene-d5	85%	81%	96%	40-105%
321-60-8	2-Fluorobiphenyl	77%	74%	83%	43-107%
1718-51-0	Terphenyl-d14	84%	88%	82%	45-119%

* = Outside of Control Limits.



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ACCUTEST
C47015

GC Volatiles

QC Data Summaries

(SGS Accutest Southeast)



Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV4033-MB	UV075719.D	1	09/09/16	CG	n/a	n/a	GUV4033

The QC reported here applies to the following samples: Method: SW846 8015C

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	106%
98-08-8	aaa-Trifluorotoluene	99%
		56-149%
		66-132%

8.1.1
8

Method Blank Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV4034-MB	UV075762.D	1	09/12/16	CG	n/a	n/a	GUV4034

The QC reported here applies to the following samples: Method: SW846 8015C

C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19, C47015-20, C47015-21

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Limits	
460-00-4	4-Bromofluorobenzene	94%	56-149%
98-08-8	aaa-Trifluorotoluene	95%	66-132%

8.1.2
8

Method Blank Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV4035-MB	UV075794.D	1	09/13/16	CG	n/a	n/a	GUV4035

The QC reported here applies to the following samples: Method: SW846 8015C

C47015-10, C47015-11, C47015-12, C47015-13, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	90%
98-08-8	aaa-Trifluorotoluene	94%
		56-149%
		66-132%

8.1.3
8

Blank Spike Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV4033-BS	UV075718.D	1	09/09/16	CG	n/a	n/a	GUV4033

The QC reported here applies to the following samples: Method: SW846 8015C

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	17.4	87	74-128

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	111%	56-149%
98-08-8	aaa-Trifluorotoluene	103%	66-132%

8.2.1
8

* = Outside of Control Limits.

Blank Spike Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV4034-BS	UV075761.D	1	09/12/16	CG	n/a	n/a	GUV4034

The QC reported here applies to the following samples: Method: SW846 8015C

C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19, C47015-20, C47015-21

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	16.4	82	74-128

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	97%	56-149%
98-08-8	aaa-Trifluorotoluene	97%	66-132%

8.2.2
8

* = Outside of Control Limits.

Blank Spike Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV4035-BS	UV075813.D	1	09/13/16	CG	n/a	n/a	GUV4035

The QC reported here applies to the following samples: Method: SW846 8015C

C47015-10, C47015-11, C47015-12, C47015-13, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	17.4	87	74-128

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	99%	56-149%
98-08-8	aaa-Trifluorotoluene	92%	66-132%

8.2.3
8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA36718-1MS	UV075721.D	1	09/09/16	CG	n/a	n/a	GUV4033
FA36718-1MSD	UV075722.D	1	09/09/16	CG	n/a	n/a	GUV4033
FA36718-1	UV075720.D	1	09/09/16	CG	n/a	n/a	GUV4033

The QC reported here applies to the following samples: Method: SW846 8015C

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9

CAS No.	Compound	FA36718-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	66.5	E	19	80.8	75	19	81.1	77	0	74-128/17

CAS No.	Surrogate Recoveries	MS	MSD	FA36718-1	Limits
460-00-4	4-Bromofluorobenzene	80%	81%	80%	56-149%
98-08-8	aaa-Trifluorotoluene	116%	114%	114%	66-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C47015-12MS	UV075807.D	1	09/13/16	CG	n/a	n/a	GUV4035
C47015-12MSD	UV075808.D	1	09/13/16	CG	n/a	n/a	GUV4035
C47015-12 ^a	UV075806.D	1	09/13/16	CG	n/a	n/a	GUV4035

The QC reported here applies to the following samples:

Method: SW846 8015C

C47015-10, C47015-11, C47015-12, C47015-13, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

CAS No.	Compound	C47015-12 mg/kg	Spike Q	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	20.2	14.3	71*	20.2	15.5	77	8	74-128/17

CAS No.	Surrogate Recoveries	MS	MSD	C47015-12	Limits
460-00-4	4-Bromofluorobenzene	92%	97%	92%	56-149%
98-08-8	aaa-Trifluorotoluene	98%	98%	94%	66-132%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling. Reported results are considered minimum values.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA36771-1MS	UV075814.D	1	09/13/16	CG	n/a	n/a	GUV4034
FA36771-1MSD	UV075815.D	1	09/13/16	CG	n/a	n/a	GUV4034
FA36771-1	UV075763.D	1	09/12/16	CG	n/a	n/a	GUV4034

The QC reported here applies to the following samples: Method: SW846 8015C

C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19, C47015-20, C47015-21

CAS No.	Compound	FA36771-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		27.5	21.7	79	27.5	22.5	82	4	74-128/17

CAS No.	Surrogate Recoveries	MS	MSD	FA36771-1	Limits
460-00-4	4-Bromofluorobenzene	97%	95%	91%	56-149%
98-08-8	aaa-Trifluorotoluene	98%	98%	93%	66-132%

* = Outside of Control Limits.

GC Semi-volatiles

QC Data Summaries

(SGS Accutest Southeast)

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61815-MB	TT379319.D	1	09/13/16	NG	09/10/16	OP61815	GTT1860

The QC reported here applies to the following samples:

Method: SW846 8081B

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.7	0.51	ug/kg	
319-84-6	alpha-BHC	ND	1.7	0.51	ug/kg	
319-85-7	beta-BHC	ND	1.7	0.51	ug/kg	
319-86-8	delta-BHC	ND	1.7	0.49	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.7	0.51	ug/kg	
12789-03-6	Chlordane	ND	17	6.7	ug/kg	
60-57-1	Dieldrin	ND	1.7	0.63	ug/kg	
72-54-8	4,4' -DDD	ND	3.3	0.57	ug/kg	
72-55-9	4,4' -DDE	ND	3.3	0.54	ug/kg	
50-29-3	4,4' -DDT	ND	3.3	0.65	ug/kg	
72-20-8	Endrin	ND	3.3	0.62	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.62	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	0.62	ug/kg	
959-98-8	Endosulfan-I	ND	1.7	0.49	ug/kg	
33213-65-9	Endosulfan-II	ND	1.7	0.62	ug/kg	
76-44-8	Heptachlor	ND	1.7	0.57	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.7	0.58	ug/kg	
72-43-5	Methoxychlor	ND	3.3	0.86	ug/kg	
8001-35-2	Toxaphene	ND	83	33	ug/kg	

CAS No.	Surrogate Recoveries	Limits
877-09-8	Tetrachloro-m-xylene	96% 50-122%
2051-24-3	Decachlorobiphenyl	92% 50-133%

9.1.1
9

Method Blank Summary

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Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCAR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61829-MB	TT379355.D	1	09/14/16	NG	09/12/16	OP61829	GTT1861

The QC reported here applies to the following samples:

Method: SW846 8081B

C47015-17, C47015-18, C47015-19, C47015-20, C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.7	0.51	ug/kg	
319-84-6	alpha-BHC	ND	1.7	0.51	ug/kg	
319-85-7	beta-BHC	ND	1.7	0.51	ug/kg	
319-86-8	delta-BHC	ND	1.7	0.49	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.7	0.51	ug/kg	
12789-03-6	Chlordane	ND	17	6.7	ug/kg	
60-57-1	Dieldrin	ND	1.7	0.63	ug/kg	
72-54-8	4,4' -DDD	ND	3.3	0.57	ug/kg	
72-55-9	4,4' -DDE	ND	3.3	0.54	ug/kg	
50-29-3	4,4' -DDT	ND	3.3	0.65	ug/kg	
72-20-8	Endrin	ND	3.3	0.62	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.62	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	0.62	ug/kg	
959-98-8	Endosulfan-I	ND	1.7	0.49	ug/kg	
33213-65-9	Endosulfan-II	ND	1.7	0.62	ug/kg	
76-44-8	Heptachlor	ND	1.7	0.57	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.7	0.58	ug/kg	
72-43-5	Methoxychlor	ND	3.3	0.86	ug/kg	
8001-35-2	Toxaphene	ND	83	33	ug/kg	

CAS No.	Surrogate Recoveries	Limits
877-09-8	Tetrachloro-m-xylene	89% 50-122%
2051-24-3	Decachlorobiphenyl	85% 50-133%

9.1.2
9

Method Blank Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61816-MB	ST138352.D	1	09/13/16	NJ	09/10/16	OP61816	GST3293

The QC reported here applies to the following samples: Method: SW846 8082A

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.5	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	8.0	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Limits
877-09-8	Tetrachloro-m-xylene	96% 44-126%
2051-24-3	Decachlorobiphenyl	95% 41-145%

Method Blank Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61830-MB	ST138375.D	1	09/13/16	NJ	09/12/16	OP61830	GST3293

The QC reported here applies to the following samples: Method: SW846 8082A

C47015-17, C47015-18, C47015-19, C47015-20, C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.5	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	8.0	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Limits
877-09-8	Tetrachloro-m-xylene	91% 44-126%
2051-24-3	Decachlorobiphenyl	101% 41-145%

Method Blank Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61813-MB	JR002579.D	1	09/12/16	SJL	09/09/16	OP61813	GJR96

The QC reported here applies to the following samples: Method: SW846 8015C

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	5.0	2.5	mg/kg	
	TPH (> C28-C40)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	61% 56-122%

9.1.5
6

Method Blank Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61833-MB	JR002664.D	1	09/15/16	SJL	09/12/16	OP61833	GJR98

The QC reported here applies to the following samples: Method: SW846 8015C

C47015-18, C47015-19, C47015-20, C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	5.0	2.5	mg/kg	
	TPH (> C28-C40)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	81% 56-122%

9.1.6
6

Blank Spike Summary

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Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61815-BS	TT379317.D	1	09/13/16	NG	09/10/16	OP61815	GTT1860

The QC reported here applies to the following samples:

Method: SW846 8081B

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	16.7	16.4	98	57-120
319-84-6	alpha-BHC	16.7	19.0	114	60-117
319-85-7	beta-BHC	16.7	17.9	107	57-125
319-86-8	delta-BHC	16.7	17.4	104	42-126
58-89-9	gamma-BHC (Lindane)	16.7	18.4	110	60-123
60-57-1	Dieldrin	16.7	15.1	91	63-125
72-54-8	4,4'-DDD	16.7	15.0	90	55-135
72-55-9	4,4'-DDE	16.7	15.1	91	61-129
50-29-3	4,4'-DDT	16.7	15.7	94	60-136
72-20-8	Endrin	16.7	15.4	92	67-138
1031-07-8	Endosulfan sulfate	16.7	15.6	94	59-119
7421-93-4	Endrin aldehyde	16.7	14.0	84	37-110
959-98-8	Endosulfan-I	16.7	13.8	83	62-122
33213-65-9	Endosulfan-II	16.7	14.4	86	62-122
76-44-8	Heptachlor	16.7	16.6	100	58-123
1024-57-3	Heptachlor epoxide	16.7	15.8	95	60-122
72-43-5	Methoxychlor	16.7	15.7	94	57-133

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	100%	50-122%
2051-24-3	Decachlorobiphenyl	92%	50-133%

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61815-BS2	TT379318.D	1	09/13/16	NG	09/10/16	OP61815	GTT1860

The QC reported here applies to the following samples:

Method: SW846 8081B

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12789-03-6	Chlordane	83.3	79.3	95	52-146
8001-35-2	Toxaphene	167	154	92	48-155

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	92%	50-122%
2051-24-3	Decachlorobiphenyl	89%	50-133%

9.2.2
9

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61829-BS	TT379353.D	1	09/14/16	NG	09/12/16	OP61829	GTT1861

The QC reported here applies to the following samples:

Method: SW846 8081B

C47015-17, C47015-18, C47015-19, C47015-20, C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	16.7	17.2	103	57-120
319-84-6	alpha-BHC	16.7	17.8	107	60-117
319-85-7	beta-BHC	16.7	18.7	112	57-125
319-86-8	delta-BHC	16.7	17.4	104	42-126
58-89-9	gamma-BHC (Lindane)	16.7	18.2	109	60-123
60-57-1	Dieldrin	16.7	16.3	98	63-125
72-54-8	4,4' -DDD	16.7	16.1	97	55-135
72-55-9	4,4' -DDE	16.7	16.2	97	61-129
50-29-3	4,4' -DDT	16.7	16.0	96	60-136
72-20-8	Endrin	16.7	17.2	103	67-138
1031-07-8	Endosulfan sulfate	16.7	16.9	101	59-119
7421-93-4	Endrin aldehyde	16.7	16.2	97	37-110
959-98-8	Endosulfan-I	16.7	15.2	91	62-122
33213-65-9	Endosulfan-II	16.7	15.8	95	62-122
76-44-8	Heptachlor	16.7	17.1	103	58-123
1024-57-3	Heptachlor epoxide	16.7	17.4	104	60-122
72-43-5	Methoxychlor	16.7	16.6	100	57-133

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	94%	50-122%
2051-24-3	Decachlorobiphenyl	91%	50-133%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 1

Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61829-BS2	TT379354.D	1	09/14/16	NG	09/12/16	OP61829	GTT1861

The QC reported here applies to the following samples:

Method: SW846 8081B

C47015-17, C47015-18, C47015-19, C47015-20, C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12789-03-6	Chlordane	83.3	83.4	100	52-146
8001-35-2	Toxaphene	167	139	83	48-155

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	87%	50-122%
2051-24-3	Decachlorobiphenyl	88%	50-133%

9.2.4
9

* = Outside of Control Limits.



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ACCUTEST
C47015

Blank Spike Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61816-BS	ST138351.D	1	09/13/16	NJ	09/10/16	OP61816	GST3293

The QC reported here applies to the following samples: Method: SW846 8082A

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	129	97	58-126
11096-82-5	Aroclor 1260	133	153	115	59-133

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	96%	44-126%
2051-24-3	Decachlorobiphenyl	97%	41-145%

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61830-BS	ST138374.D	1	09/13/16	NJ	09/12/16	OP61830	GST3293

The QC reported here applies to the following samples:

Method: SW846 8082A

C47015-17, C47015-18, C47015-19, C47015-20, C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	114	86	58-126
11096-82-5	Aroclor 1260	133	138	104	59-133

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	82%	44-126%
2051-24-3	Decachlorobiphenyl	87%	41-145%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 1

Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61813-BS	JR002578.D	1	09/12/16	SJL	09/09/16	OP61813	GJR96

The QC reported here applies to the following samples:

Method: SW846 8015C

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C28)	50	42.0	84	62-116
	TPH (> C28-C40)	50	34.4	69	47-138

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	80%	56-122%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 1

Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61833-BS	JR002663.D	1	09/15/16	SJL	09/12/16	OP61833	GJR98

The QC reported here applies to the following samples:

Method: SW846 8015C

C47015-18, C47015-19, C47015-20, C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C28)	50	37.9	76	62-116
	TPH (> C28-C40)	50	36.2	72	47-138

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	76%	56-122%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61815-MS	TT379300.D	1	09/13/16	NG	09/10/16	OP61815	GTT1859
OP61815-MSD	TT379301.D	1	09/13/16	NG	09/10/16	OP61815	GTT1859
C47015-5	TT379284.D	1	09/13/16	NG	09/10/16	OP61815	GTT1859

The QC reported here applies to the following samples:

Method: SW846 8081B

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16

CAS No.	Compound	C47015-5 ug/kg	Spike Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		16.1	14.5	90	16.2	15.5	95	7	57-120/28
319-84-6	alpha-BHC	ND		16.1	16.5	102	16.2	17.9	110	8	60-117/24
319-85-7	beta-BHC	ND		16.1	16.2	100	16.2	17.5	108	8	57-125/26
319-86-8	delta-BHC	ND		16.1	15.4	95	16.2	16.8	103	9	42-126/24
58-89-9	gamma-BHC (Lindane)	ND		16.1	16.2	100	16.2	17.7	109	9	60-123/29
60-57-1	Dieldrin	ND		16.1	12.9	80	16.2	13.9	86	7	63-125/29
72-54-8	4,4' -DDD	ND		16.1	12.5	77	16.2	13.6	84	8	55-135/31
72-55-9	4,4' -DDE	ND		16.1	12.8	79	16.2	13.9	86	8	61-129/31
50-29-3	4,4' -DDT	ND		16.1	12.3	76	16.2	13.5	83	9	60-136/39
72-20-8	Endrin	ND		16.1	13.2	82	16.2	14.1	87	7	67-138/28
1031-07-8	Endosulfan sulfate	ND		16.1	12.6	78	16.2	13.9	86	10	59-119/28
7421-93-4	Endrin aldehyde	ND		16.1	11.7	73	16.2	12.9	79	10	37-110/25
959-98-8	Endosulfan-I	ND		16.1	11.8	73	16.2	12.6	78	7	62-122/29
33213-65-9	Endosulfan-II	ND		16.1	11.4	71	16.2	12.7	78	11	62-122/31
76-44-8	Heptachlor	ND		16.1	14.7	91	16.2	15.9	98	8	58-123/30
1024-57-3	Heptachlor epoxide	ND		16.1	13.4	83	16.2	14.5	89	8	60-122/33
72-43-5	Methoxychlor	ND		16.1	12.4	77	16.2	13.7	84	10	57-133/31

CAS No.	Surrogate Recoveries	MS	MSD	C47015-5	Limits
877-09-8	Tetrachloro-m-xylene	91%	100%	110%	50-122%
2051-24-3	Decachlorobiphenyl	75%	80%	74%	50-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61829-MS	TT379364.D	1	09/14/16	NG	09/12/16	OP61829	GTT1861
OP61829-MSD	TT379365.D	1	09/14/16	NG	09/12/16	OP61829	GTT1861
C47015-27	TT379363.D	1	09/14/16	NG	09/12/16	OP61829	GTT1861

The QC reported here applies to the following samples:

Method: SW846 8081B

C47015-17, C47015-18, C47015-19, C47015-20, C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

CAS No.	Compound	C47015-27 ug/kg	Spike Q	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND	16.7	18.8	113	16.7	20.5	123*	9	57-120/28
319-84-6	alpha-BHC	ND	16.7	19.1	115	16.7	21.3	128*	11	60-117/24
319-85-7	beta-BHC	ND	16.7	20.2	121	16.7	22.4	134*	10	57-125/26
319-86-8	delta-BHC	ND	16.7	18.7	112	16.7	20.9	125	11	42-126/24
58-89-9	gamma-BHC (Lindane)	ND	16.7	19.5	117	16.7	21.7	130*	11	60-123/29
60-57-1	Dieldrin	ND	16.7	17.5	105	16.7	19.0	114	8	63-125/29
72-54-8	4,4' -DDD	ND	16.7	17.0	102	16.7	19.0	114	11	55-135/31
72-55-9	4,4' -DDE	ND	16.7	16.8	101	16.7	19.0	114	12	61-129/31
50-29-3	4,4' -DDT	ND	16.7	16.6	100	16.7	18.6	112	11	60-136/39
72-20-8	Endrin	ND	16.7	17.8	107	16.7	19.9	119	11	67-138/28
1031-07-8	Endosulfan sulfate	ND	16.7	18.2	109	16.7	19.8	119	8	59-119/28
7421-93-4	Endrin aldehyde	ND	16.7	17.2	103	16.7	18.9	113*	9	37-110/25
959-98-8	Endosulfan-I	ND	16.7	15.9	95	16.7	17.9	107	12	62-122/29
33213-65-9	Endosulfan-II	ND	16.7	16.5	99	16.7	18.5	111	11	62-122/31
76-44-8	Heptachlor	ND	16.7	18.3	110	16.7	20.4	122	11	58-123/30
1024-57-3	Heptachlor epoxide	ND	16.7	18.0	108	16.7	20.4	122	13	60-122/33
72-43-5	Methoxychlor	ND	16.7	17.0	102	16.7	18.7	112	10	57-133/31

CAS No.	Surrogate Recoveries	MS	MSD	C47015-27	Limits
877-09-8	Tetrachloro-m-xylene	103%	113%	92%	50-122%
2051-24-3	Decachlorobiphenyl	79%	88%	73%	50-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61816-MS	ST138357.D	1	09/13/16	NJ	09/10/16	OP61816	GST3293
OP61816-MSD	ST138358.D	1	09/13/16	NJ	09/10/16	OP61816	GST3293
C47015-4	ST138356.D	1	09/13/16	NJ	09/10/16	OP61816	GST3293

The QC reported here applies to the following samples: Method: SW846 8082A

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16

CAS No.	Compound	C47015-4 ug/kg	Spike Q	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND	132	117	89	132	116	88	1	58-126/25
11096-82-5	Aroclor 1260	ND	132	135	103	132	137	103	1	59-133/31

CAS No.	Surrogate Recoveries	MS	MSD	C47015-4	Limits
877-09-8	Tetrachloro-m-xylene	87%	83%	87%	44-126%
2051-24-3	Decachlorobiphenyl	88%	84%	88%	41-145%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61830-MS	ST138388.D	1	09/13/16	NJ	09/12/16	OP61830	GST3293
OP61830-MSD	ST138389.D	1	09/13/16	NJ	09/12/16	OP61830	GST3293
C47015-26	ST138387.D	1	09/13/16	NJ	09/12/16	OP61830	GST3293

The QC reported here applies to the following samples: Method: SW846 8082A

C47015-17, C47015-18, C47015-19, C47015-20, C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

CAS No.	Compound	C47015-26 ug/kg	Spike Q	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND	132	138	104	132	136	103	1	58-126/25
11096-82-5	Aroclor 1260	ND	132	168	127	132	166	125	1	59-133/31

CAS No.	Surrogate Recoveries	MS	MSD	C47015-26	Limits
877-09-8	Tetrachloro-m-xylene	100%	100%	95%	44-126%
2051-24-3	Decachlorobiphenyl	112%	108%	104%	41-145%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C47015
Account: ALNCA SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61813-MS	JR002591.D	1	09/13/16	SJL	09/09/16	OP61813	GJR96
OP61813-MSD	JR002592.D	1	09/13/16	SJL	09/09/16	OP61813	GJR96
C47015-5	JR002590.D	1	09/13/16	SJL	09/09/16	OP61813	GJR96

The QC reported here applies to the following samples: Method: SW846 8015C

C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17

CAS No.	Compound	C47015-5 mg/kg	Spike Q	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD	
	TPH (C10-C28)	ND		50.8	35.8	71	50.3	40.2	80	12	62-116/35
	TPH (> C28-C40)	ND		50.8	29.1	57	50.3	32.4	64	11	47-138/29

CAS No.	Surrogate Recoveries	MS	MSD	C47015-5	Limits
84-15-1	o-Terphenyl	63%	71%	75%	56-122%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: C47015

Account: ALNCA SGS Accutest Northern California

Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61833-MS	JR002683.D	1	09/15/16	SJL	09/12/16	OP61833	GJR98
OP61833-MSD	JR002684.D	1	09/15/16	SJL	09/12/16	OP61833	GJR98
C47015-32	JR002682.D	1	09/15/16	SJL	09/12/16	OP61833	GJR98

The QC reported here applies to the following samples:

Method: SW846 8015C

C47015-18, C47015-19, C47015-20, C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

CAS No.	Compound	C47015-32 mg/kg	Spike Q	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	ND	50	41.9	84	49.8	40.6	82	3	62-116/35
	TPH (> C28-C40)	ND	50	35.4	71	49.8	34.4	69	3	47-138/29

CAS No.	Surrogate Recoveries	MS	MSD	C47015-32	Limits
84-15-1	o-Terphenyl	85%	80%	82%	56-122%

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

(SGS Accutest Southeast)

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C47015
Account: ALNCA - SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

QC Batch ID: MP30813
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 09/09/16

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.7	1.8		
Antimony	1.0	.05	.065	0.035	<1.0
Arsenic	0.50	.065	.1	-0.015	<0.50
Barium	10	.05	.05	-0.010	<10
Beryllium	0.25	.01	.025	-0.0050	<0.25
Cadmium	0.20	.01	.025	0.0	<0.20
Calcium	250	2.5	2.5		
Chromium	0.50	.05	.05	0.055	<0.50
Cobalt	2.5	.01	.025	-0.0050	<2.5
Copper	1.3	.05	.05	0.0	<1.3
Iron	15	.85	.85		
Lead	1.0	.05	.05	-0.060	<1.0
Magnesium	250	1.8	1.8		
Manganese	0.75	.025	.025		
Molybdenum	2.5	.015	.025	0.020	<2.5
Nickel	2.0	.02	.025	0.010	<2.0
Potassium	500	10	10		
Selenium	1.0	.12	.12	-0.040	<1.0
Silver	0.50	.035	.041	0.040	<0.50
Sodium	500	25	25		
Strontium	0.50	.025	.025		
Thallium	0.50	.055	.055	-0.070	<0.50
Tin	2.5	.045	.045		
Titanium	0.50	.025	.025		
Vanadium	2.5	.025	.025	0.010	<2.5
Zinc	1.0	.15	.15	0.20	<1.0

Associated samples MP30813: C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

10.1.1
10

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C47015
Account: ALNCA - SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

QC Batch ID: MP30813
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date:

09/09/16

09/09/16

Metal	FA36723-1 Original DUP		RPD	QC Limits	FA36723-1 Original MS		Spikelot MPFLICP2 % Rec	QC Limits
Aluminum								
Antimony	0.0	0.0 (a)	NC	0-20	0.0	21.0 (a)	25.3	80-120
Arsenic	0.0	0.0	NC	0-20	0.0	110	101	80-120
Barium	2.6	2.2	16.7	0-20	2.6	115	101	80-120
Beryllium	0.017	0.014	19.4	0-20	0.017	2.8	2.53	80-120
Cadmium	0.0	0.0 (a)	NC	0-20	0.0	2.7 (a)	2.53	80-120
Calcium								
Chromium	2.9	2.8 (a)	3.5	0-20	2.9	13.7 (a)	10.1	80-120
Cobalt	0.038	0.053	33.0 (b)	0-20	0.038	25.7	25.3	80-120
Copper	0.69	0.68	1.5	0-20	0.69	14.9	12.7	80-120
Iron								
Lead	17.1	15.1 (a)	12.4	0-20	17.1	41.9 (a)	25.3	80-120
Magnesium								
Manganese								
Molybdenum	0.030	0.014	72.7 (b)	0-20	0.030	27.6	25.3	80-120
Nickel	0.71	0.70	1.4	0-20	0.71	26.4	25.3	80-120
Potassium								
Selenium	0.0	0.0 (a)	NC	0-20	0.0	106 (a)	101	80-120
Silver	0.0	0.0	NC	0-20	0.0	2.7	2.53	80-120
Sodium								
Strontium								
Thallium	0.0	0.0 (a)	NC	0-20	0.0	103 (a)	101	80-120
Tin								
Titanium								
Vanadium	2.0	1.8	10.5	0-20	2.0	28.1	25.3	80-120
Zinc	11.8	13.0 (a)	9.7	0-20	11.8	44.3 (a)	25.3	80-120

Associated samples MP30813: C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Elevated reporting limit(s) due to matrix interference.

(b) RPD acceptable due to low duplicate and sample concentrations.

(c) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

10.1.2 10

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C47015
Account: ALNCA - SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

QC Batch ID: MP30813
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 09/09/16

	FA36723-1		Spikelot		MSD	QC
Metal	Original MSD		MPFLICP2 % Rec		RPD	Limit
Aluminum						
Antimony	0.0	22.0 (a)	25.8	85.4	4.7	20
Arsenic	0.0	114	103	110.6	3.6	20
Barium	2.6	121	103	114.9	5.1	20
Beryllium	0.017	2.9	2.58	111.9	3.5	20
Cadmium	0.0	2.9 (a)	2.58	112.6	7.1	20
Calcium						
Chromium	2.9	14.6 (a)	10.3	113.6	6.4	20
Cobalt	0.038	27.0	25.8	104.7	4.9	20
Copper	0.69	15.2	12.9	112.7	2.0	20
Iron						
Lead	17.1	42.4 (a)	25.8	98.2	1.2	20
Magnesium						
Manganese						
Molybdenum	0.030	28.9	25.8	112.1	4.6	20
Nickel	0.71	27.7	25.8	104.8	4.8	20
Potassium						
Selenium	0.0	112 (a)	103	108.7	5.5	20
Silver	0.0	2.8	2.58	108.7	3.6	20
Sodium						
Strontium						
Thallium	0.0	111 (a)	103	107.7	7.5	20
Tin						
Titanium						
Vanadium	2.0	29.0	25.8	104.8	3.2	20
Zinc	11.8	39.8 (a)	25.8	108.7	10.7	20

Associated samples MP30813: C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Elevated reporting limit(s) due to matrix interference.

10.1.2 10

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C47015

Account: ALNCA - SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CAQC Batch ID: MP30813
Matrix Type: SOLIDMethods: SW846 6010C
Units: mg/kg

Prep Date: 09/09/16

Metal	BSP Result	Spike lot MPFLICP2 % Rec	QC Limits
Aluminum			
Antimony	27.7	25	110.8 80-120
Arsenic	109	100	109.0 80-120
Barium	115	100	115.0 80-120
Beryllium	2.9	2.5	116.0 80-120
Cadmium	2.8	2.5	112.0 80-120
Calcium			
Chromium	11.5	10	115.0 80-120
Cobalt	28.0	25	112.0 80-120
Copper	14.3	12.5	114.4 80-120
Iron			
Lead	27.2	25	108.8 80-120
Magnesium			
Manganese			
Molybdenum	29.3	25	117.2 80-120
Nickel	28.3	25	113.2 80-120
Potassium			
Selenium	109	100	109.0 80-120
Silver	2.7	2.5	108.0 80-120
Sodium			
Strontium			
Thallium	109	100	109.0 80-120
Tin			
Titanium			
Vanadium	27.2	25	108.8 80-120
Zinc	28.2	25	112.8 80-120

Associated samples MP30813: C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested10.1.3
10

SERIAL DILUTION RESULTS SUMMARY

Login Number: C47015
 Account: ALNCA - SGS Accutest Northern California
 Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

QC Batch ID: MP30813
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: ug/l

Prep Date: 09/09/16

Metal	FA36723-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	0.00	0.00	NC	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	60.3	58.0	3.8	0-10
Beryllium	0.400	0.00	100.0(a)	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	69.7	73.5	5.5	0-10
Cobalt	0.900	1.30	44.4 (a)	0-10
Copper	16.3	13.7	16.0 (a)	0-10
Iron				
Lead	404	334	17.2*(b)	0-10
Magnesium				
Manganese				
Molybdenum	0.700	0.00	100.0(a)	0-10
Nickel	16.7	16.5	1.2	0-10
Potassium				
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	46.9	45.3	3.4	0-10
Zinc	280	352	26.0 (a)	0-10

Associated samples MP30813: C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

(b) Serial dilution indicates possible matrix interference.

10.1.4
10

POST DIGESTATE SPIKE SUMMARY

Login Number: C47015
 Account: ALNCA - SGS Accutest Northern California
 Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

QC Batch ID: MP30813
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: ug/l

Prep Date:

09/09/16

Metal	Sample ml	Final ml	FA36723-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	9.8	10			78.3	0.2	5	100	78.3*(a)	80-120
Arsenic	9.8	10			113.5	0.2	5	100	113.5	80-120
Barium	9.8	10	60.3	59.094	340	0.2	12.5	250	112.4	80-120
Beryllium	9.8	10	.4	.392	52.9	0.2	2.5	50	105.0	80-120
Cadmium	9.8	10			41	0.2	2.5	50	82.0	80-120
Calcium										
Chromium	9.8	10	69.7	68.306	111.1	0.2	2.5	50	85.6	80-120
Cobalt	9.8	10	.9	.882	52.5	0.2	2.5	50	103.2	80-120
Copper	9.8	10	16.3	15.974	126.1	0.2	5	100	110.1	80-120
Iron										
Lead	9.8	10	403.6	395.528	445	0.2	2.5	50	98.9	80-120
Magnesium										
Manganese										
Molybdenum	9.8	10	.7	.686	107.1	0.2	5	100	106.4	80-120
Nickel	9.8	10	16.7	16.366	116.2	0.2	5	100	99.8	80-120
Potassium										
Selenium	9.8	10			72.2	0.2	5	100	72.2*(a)	80-120
Silver	9.8	10			48.7	0.2	2.5	50	97.4	80-120
Sodium										
Strontium										
Thallium	9.8	10			75.6	0.2	5	100	75.6*(a)	80-120
Tin										
Titanium										
Vanadium	9.8	10	46.9	45.962	96	0.2	2.5	50	100.1	80-120
Zinc	9.8	10	279.6	274.008	478.8	0.2	12.5	250	81.9	80-120

Associated samples MP30813: C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(**) Corr. sample result = Raw * (sample volume / final volume)

(anr) Analyte not requested

(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

10.1.5
10

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C47015
Account: ALNCA - SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

QC Batch ID: MP30815
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 09/12/16

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.7	1.8		
Antimony	1.0	.05	.065	0.055	<1.0
Arsenic	0.50	.065	.1	-0.050	<0.50
Barium	10	.05	.05	-0.0050	<10
Beryllium	0.25	.01	.025	0.0	<0.25
Cadmium	0.20	.01	.025	0.0	<0.20
Calcium	250	2.5	2.5		
Chromium	0.50	.05	.05	0.050	<0.50
Cobalt	2.5	.01	.025	-0.0050	<2.5
Copper	1.3	.05	.05	-0.010	<1.3
Iron	15	.85	.85		
Lead	1.0	.05	.05	0.080	<1.0
Magnesium	250	1.8	1.8		
Manganese	0.75	.025	.025		
Molybdenum	2.5	.015	.025	-0.040	<2.5
Nickel	2.0	.02	.025	0.015	<2.0
Potassium	500	10	10		
Selenium	1.0	.12	.12	0.025	<1.0
Silver	0.50	.035	.041	-0.010	<0.50
Sodium	500	25	25		
Strontium	0.50	.025	.025		
Thallium	0.50	.055	.055	-0.045	<0.50
Tin	2.5	.045	.045		
Titanium	0.50	.025	.025		
Vanadium	2.5	.025	.025	-0.010	<2.5
Zinc	1.0	.15	.15	0.20	<1.0

Associated samples MP30815: C47015-20, C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

10.2.1
10

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C47015
 Account: ALNCA - SGS Accutest Northern California
 Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

QC Batch ID: MP30815
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date:

09/12/16

09/12/16

Metal	FA36748-3 Original DUP		RPD	QC Limits	FA36748-3 Original MS		Spikelot MPFLICP2 % Rec	QC Limits
Aluminum								
Antimony	0.0	0.0	NC	0-20	0.0	6.7	25.4	26.4N(b) 80-120
Arsenic	0.55	0.62	12.0	0-20	0.55	98.1	102	96.0 80-120
Barium	8.6	9.0	4.5	0-20	8.6	116	102	105.7 80-120
Beryllium	0.11	0.11	0.0	0-20	0.11	2.8	2.54	105.9 80-120
Cadmium	0.011	0.015	30.8 (a)	0-20	0.011	2.6	2.54	101.9 80-120
Calcium								
Chromium	4.9	5.1	4.0	0-20	4.9	15.9	10.2	108.3 80-120
Cobalt	0.31	0.32	3.2	0-20	0.31	25.7	25.4	100.0 80-120
Copper	0.76	0.83	8.8	0-20	0.76	14.2	12.7	105.8 80-120
Iron								
Lead	2.9	3.2	9.8	0-20	2.9	31.0	25.4	110.6 80-120
Magnesium								
Manganese								
Molybdenum	1.2	1.2	0.0	0-20	1.2	25.8	25.4	96.9 80-120
Nickel	0.84	0.91	8.0	0-20	0.84	26.6	25.4	101.4 80-120
Potassium								
Selenium	0.40	0.36	10.5	0-20	0.40	99.1	102	97.2 80-120
Silver	0.039	0.041	5.0	0-20	0.039	2.5	2.54	96.9 80-120
Sodium								
Strontium								
Thallium	0.0	0.0	NC	0-20	0.0	110	102	108.3 80-120
Tin								
Titanium								
Vanadium	6.7	7.0	4.4	0-20	6.7	32.0	25.4	99.6 80-120
Zinc	3.8	4.0	5.1	0-20	3.8	30.0	25.4	103.2 80-120

Associated samples MP30815: C47015-20, C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) RPD acceptable due to low duplicate and sample concentrations.

(b) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

10.2.2 10

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C47015
 Account: ALNCA - SGS Accutest Northern California
 Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

QC Batch ID: MP30815
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 09/12/16

	FA36748-3		Spike lot		MSD	QC
Metal	Original MSD		MPFLICP2 % Rec		RPD	Limit
Aluminum						
Antimony	0.0	6.5	25	26.0N(a)	3.0	20
Arsenic	0.55	95.6	100	95.0	2.6	20
Barium	8.6	114	100	105.4	1.7	20
Beryllium	0.11	2.7	2.5	103.6	3.6	20
Cadmium	0.011	2.5	2.5	99.5	3.9	20
Calcium						
Chromium	4.9	15.9	10	110.0	0.0	20
Cobalt	0.31	25.2	25	99.5	2.0	20
Copper	0.76	13.9	12.5	105.1	2.1	20
Iron						
Lead	2.9	30.7	25	111.2	1.0	20
Magnesium						
Manganese						
Molybdenum	1.2	25.3	25	96.4	2.0	20
Nickel	0.84	25.9	25	100.2	2.7	20
Potassium						
Selenium	0.40	96.7	100	96.3	2.5	20
Silver	0.039	2.4	2.5	94.4	4.1	20
Sodium						
Strontium						
Thallium	0.0	108	100	108.0	1.8	20
Tin						
Titanium						
Vanadium	6.7	31.8	25	100.4	0.6	20
Zinc	3.8	28.9	25	100.4	3.7	20

Associated samples MP30815: C47015-20, C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

10.2.2
10

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C47015
 Account: ALNCA - SGS Accutest Northern California
 Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

QC Batch ID: MP30815
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 09/12/16

Metal	BSP Result	Spike lot MPFLICP2 % Rec	QC Limits
Aluminum			
Antimony	27.5	25	110.0 80-120
Arsenic	111	100	111.0 80-120
Barium	117	100	117.0 80-120
Beryllium	2.9	2.5	116.0 80-120
Cadmium	2.8	2.5	112.0 80-120
Calcium			
Chromium	11.6	10	116.0 80-120
Cobalt	28.3	25	113.2 80-120
Copper	14.5	12.5	116.0 80-120
Iron			
Lead	27.6	25	110.4 80-120
Magnesium			
Manganese			
Molybdenum	29.5	25	118.0 80-120
Nickel	28.7	25	114.8 80-120
Potassium			
Selenium	111	100	111.0 80-120
Silver	2.6	2.5	104.0 80-120
Sodium			
Strontium			
Thallium	110	100	110.0 80-120
Tin			
Titanium			
Vanadium	27.5	25	110.0 80-120
Zinc	28.5	25	114.0 80-120

Associated samples MP30815: C47015-20, C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

10.2.3
10

SERIAL DILUTION RESULTS SUMMARY

Login Number: C47015
 Account: ALNCA - SGS Accutest Northern California
 Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

QC Batch ID: MP30815
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: ug/l

Prep Date: 09/12/16

Metal	FA36748-3 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	0.00	0.00	NC	0-10
Arsenic	9.90	8.60	13.1 (a)	0-10
Barium	154	165	7.5	0-10
Beryllium	1.90	2.00	5.3	0-10
Cadmium	0.200	0.00	100.0(a)	0-10
Calcium				
Chromium	87.8	95.0	8.2	0-10
Cobalt	5.50	6.00	9.1	0-10
Copper	13.5	14.1	4.4	0-10
Iron				
Lead	51.6	52.9	2.5	0-10
Magnesium				
Manganese				
Molybdenum	21.4	19.4	9.3	0-10
Nickel	15.0	16.7	11.3 (a)	0-10
Potassium				
Selenium	7.10	0.00	100.0(a)	0-10
Silver	0.700	0.00	100.0(a)	0-10
Sodium				
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	120	128	7.4	0-10
Zinc	68.4	110	61.1 (a)	0-10

Associated samples MP30815: C47015-20, C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

10.2.4
10

POST DIGESTATE SPIKE SUMMARY

Login Number: C47015
 Account: ALNCA - SGS Accutest Northern California
 Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

QC Batch ID: MP30815
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: ug/l

Prep Date:

09/12/16

Metal	Sample ml	Final ml	FA36748-3 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	9.8	10			105	0.2	5	100	105.0	80-120
Arsenic	9.8	10	9.9	9.702	111	0.2	5	100	101.3	80-120
Barium	9.8	10	153.9	150.822	414.9	0.2	12.5	250	105.6	80-120
Beryllium	9.8	10	1.9	1.862	53.5	0.2	2.5	50	103.3	80-120
Cadmium	9.8	10	.2	.196	50.8	0.2	2.5	50	101.2	80-120
Calcium										
Chromium	9.8	10	87.8	86.044	137.9	0.2	2.5	50	103.7	80-120
Cobalt	9.8	10	5.5	5.39	56.1	0.2	2.5	50	101.4	80-120
Copper	9.8	10	13.5	13.23	119.3	0.2	5	100	106.1	80-120
Iron										
Lead	9.8	10	51.6	50.568	104.8	0.2	2.5	50	108.5	80-120
Magnesium										
Manganese										
Molybdenum	9.8	10	21.4	20.972	122.2	0.2	5	100	101.2	80-120
Nickel	9.8	10	15	14.7	115.5	0.2	5	100	100.8	80-120
Potassium										
Selenium	9.8	10	7.1	6.958	103.7	0.2	5	100	96.7	80-120
Silver	9.8	10	.7	.686	45.3	0.2	2.5	50	89.2	80-120
Sodium										
Strontium										
Thallium	9.8	10			104.5	0.2	5	100	104.5	80-120
Tin										
Titanium										
Vanadium	9.8	10	119.5	117.11	166.5	0.2	2.5	50	98.8	80-120
Zinc	9.8	10	68.4	67.032	327	0.2	12.5	250	104.0	80-120

Associated samples MP30815: C47015-20, C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(**) Corr. sample result = Raw * (sample volume / final volume)

(anr) Analyte not requested

10.2.5 10

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C47015
Account: ALNCA - SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

QC Batch ID: MP30816
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 09/12/16

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.042	.0025	.0042	-0.0017	<0.042

Associated samples MP30816: C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19, C47015-20

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

10.3.1
10

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C47015
 Account: ALNCA - SGS Accutest Northern California
 Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

QC Batch ID: MP30816
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: mg/kg

Prep Date: 09/12/16 09/12/16

Metal	C47015-3 Original DUP		RPD	QC Limits	C47015-3 Original MS		Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.063	0.067	6.2	0-20	0.063	0.27	0.227	91.1	80-120

Associated samples MP30816: C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19, C47015-20

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C47015
 Account: ALNCA - SGS Accutest Northern California
 Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

QC Batch ID: MP30816
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: mg/kg

Prep Date: 09/12/16

Metal	C47015-3 Original MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.063	0.29	0.224	101.4	7.1

Associated samples MP30816: C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19, C47015-20

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C47015
 Account: ALNCA - SGS Accutest Northern California
 Project: GEOSCASR: Vallco Mall,Wolfe Rd,Cupertino CA

QC Batch ID: MP30816
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: mg/kg

Prep Date: 09/12/16

Metal	BSP Result	SpikeLot HGFLWS1	% Rec	QC Limits
Mercury	0.26	0.25	104.0	80-120

Associated samples MP30816: C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19, C47015-20

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: C47015
 Account: ALNCA - SGS Accutest Northern California
 Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

QC Batch ID: MP30816
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: ug/l

Prep Date: 09/12/16

Metal	C47015-3		%DIF	QC Limits
	Original	SDL 1:5		
Mercury	0.785	0.401	48.9 (a)	0-10

Associated samples MP30816: C47015-1, C47015-2, C47015-3, C47015-4, C47015-5, C47015-6, C47015-7, C47015-8, C47015-9, C47015-10, C47015-11, C47015-12, C47015-13, C47015-14, C47015-15, C47015-16, C47015-17, C47015-18, C47015-19, C47015-20

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C47015
Account: ALNCA - SGS Accutest Northern California
Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

QC Batch ID: MP30820
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 09/13/16

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.042	.0025	.0042	-0.0021	<0.042

Associated samples MP30820: C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C47015
 Account: ALNCA - SGS Accutest Northern California
 Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

QC Batch ID: MP30820
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: mg/kg

Prep Date: 09/13/16 09/13/16

Metal	C47015-21 Original DUP		RPD	QC Limits	C47015-21 Original MS		Spikelot HGFLWS1 % Rec		QC Limits
Mercury	0.13	0.071	58.7*(a)	0-20	0.13	0.35	0.224	98.3	80-120

Associated samples MP30820: C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested
 (a) High RPD due to possible sample non-homogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C47015
 Account: ALNCA - SGS Accutest Northern California
 Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

QC Batch ID: MP30820
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: mg/kg

Prep Date: 09/13/16

Metal	C47015-21 Original MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.13	0.31	0.224	80.4	12.1

Associated samples MP30820: C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

10.4.2
10

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C47015
 Account: ALNCA - SGS Accutest Northern California
 Project: GEOSCASR: Vallco Mall, Wolfe Rd, Cupertino CA

QC Batch ID: MP30820
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: mg/kg

Prep Date: 09/13/16

Metal	BSP Result	Spikelet HGFLWS1	% Rec	QC Limits
Mercury	0.26	0.25	104.0	80-120

Associated samples MP30820: C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

10.4.3
 10

SERIAL DILUTION RESULTS SUMMARY

Login Number: C47015
 Account: ALNCA - SGS Accutest Northern California
 Project: GEOSCASR: Vallco Mall,Wolfe Rd,Cupertino CA

QC Batch ID: MP30820
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: ug/l

Prep Date: 09/13/16

Metal	C47015-21		QC	
	Original	SDL 1:5	%DIF	Limits
Mercury	1.70	1.36	20.4*(a)	0-10

Associated samples MP30820: C47015-21, C47015-22, C47015-23, C47015-24, C47015-25, C47015-26, C47015-27, C47015-28, C47015-29, C47015-30, C47015-31, C47015-32

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested
 (a) Serial dilution indicates possible matrix interference.



Bulk Asbestos Material Analysis

(Air Resources Board Method 435, June 6, 1991)

Accutest Northern California, Inc.

Project Manager

2105 Lundy Ave

San Jose, CA 95131

Client ID: 3164

Report Number: N008580

Date Received: 09/08/16

Date Analyzed: 09/15/16

Date Printed: 09/15/16

Job ID/Site: C47015X

FALI Job ID: 3164

PLM Report Number: N/A

Total Samples Submitted: 32

Total Samples Analyzed: 32

Sample Preparation and Analysis:

Samples were analyzed by the Air Resources Board's Method 435, Determination of Asbestos Content of Serpentine Aggregate. Samples were ground to 200 particle size in the laboratory. Approximately 1 pint was retained for analysis. Samples were prepared for observation according to the guidelines of Exception I and Exception II as defined by the 435 Method. Samples which contained less than 10% asbestos were prepared for observation according to the point count technique as defined by the 435 Method. This analysis was performed with a standard cross-hair reticle.

Sample ID	Lab Number	Layer Description

E1-1	11807319	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: **None Detected**

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E1-2	11807320	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: **None Detected**

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E1-3	11807321	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: **None Detected**

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E1-4	11807322	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: **None Detected**

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.



Bulk Asbestos Material Analysis

(Air Resources Board Method 435, June 6, 1991)

Accutest Northern California, Inc.

Project Manager

2105 Lundy Ave

San Jose, CA 95131

Client ID: 3164

Report Number: N008580

Date Received: 09/08/16

Date Analyzed: 09/15/16

Date Printed: 09/15/16

Job ID/Site: C47015X

FALI Job ID: 3164

PLM Report Number: N/A

Total Samples Submitted: 32

Total Samples Analyzed: 32

Sample Preparation and Analysis:

Samples were analyzed by the Air Resources Board's Method 435, Determination of Asbestos Content of Serpentine Aggregate. Samples were ground to 200 particle size in the laboratory. Approximately 1 pint was retained for analysis. Samples were prepared for observation according to the guidelines of Exception I and Exception II as defined by the 435 Method. Samples which contained less than 10% asbestos were prepared for observation according to the point count technique as defined by the 435 Method. This analysis was performed with a standard cross-hair reticle.

Sample ID	Lab Number	Layer Description

E1-8	11807323	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: **None Detected**

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E2-1	11807324	Black Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: **None Detected**

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E2-2	11807325	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: **None Detected**

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E2-3	11807326	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: **None Detected**

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.



Bulk Asbestos Material Analysis

(Air Resources Board Method 435, June 6, 1991)

Accutest Northern California, Inc.

Project Manager

2105 Lundy Ave

San Jose, CA 95131

Client ID: 3164

Report Number: N008580

Date Received: 09/08/16

Date Analyzed: 09/15/16

Date Printed: 09/15/16

Job ID/Site: C47015X

FALI Job ID: 3164

PLM Report Number: N/A

Total Samples Submitted: 32

Total Samples Analyzed: 32

Sample Preparation and Analysis:

Samples were analyzed by the Air Resources Board's Method 435, Determination of Asbestos Content of Serpentine Aggregate. Samples were ground to 200 particle size in the laboratory. Approximately 1 pint was retained for analysis. Samples were prepared for observation according to the guidelines of Exception I and Exception II as defined by the 435 Method. Samples which contained less than 10% asbestos were prepared for observation according to the point count technique as defined by the 435 Method. This analysis was performed with a standard cross-hair reticle.

Sample ID	Lab Number	Layer Description

E2-5	11807327	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: **None Detected**

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E2-7	11807328	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: **None Detected**

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E3-1	11807329	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: **None Detected**

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E3-2	11807330	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: **None Detected**

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.



Bulk Asbestos Material Analysis

(Air Resources Board Method 435, June 6, 1991)

Accutest Northern California, Inc.

Project Manager

2105 Lundy Ave

San Jose, CA 95131

Client ID: 3164

Report Number: N008580

Date Received: 09/08/16

Date Analyzed: 09/15/16

Date Printed: 09/15/16

Job ID/Site: C47015X

FALI Job ID: 3164

PLM Report Number: N/A

Total Samples Submitted: 32

Total Samples Analyzed: 32

Sample Preparation and Analysis:

Samples were analyzed by the Air Resources Board's Method 435, Determination of Asbestos Content of Serpentine Aggregate. Samples were ground to 200 particle size in the laboratory. Approximately 1 pint was retained for analysis. Samples were prepared for observation according to the guidelines of Exception I and Exception II as defined by the 435 Method. Samples which contained less than 10% asbestos were prepared for observation according to the point count technique as defined by the 435 Method. This analysis was performed with a standard cross-hair reticle.

Sample ID	Lab Number	Layer Description

E3-3	11807331	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: None Detected

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E3-4	11807332	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: None Detected

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E3-6	11807333	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: None Detected

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E4-1	11807334	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: None Detected

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.



Bulk Asbestos Material Analysis

(Air Resources Board Method 435, June 6, 1991)

Accutest Northern California, Inc.

Project Manager

2105 Lundy Ave

San Jose, CA 95131

Client ID: 3164

Report Number: N008580

Date Received: 09/08/16

Date Analyzed: 09/15/16

Date Printed: 09/15/16

Job ID/Site: C47015X

FALI Job ID: 3164

PLM Report Number: N/A

Total Samples Submitted: 32

Total Samples Analyzed: 32

Sample Preparation and Analysis:

Samples were analyzed by the Air Resources Board's Method 435, Determination of Asbestos Content of Serpentine Aggregate. Samples were ground to 200 particle size in the laboratory. Approximately 1 pint was retained for analysis. Samples were prepared for observation according to the guidelines of Exception I and Exception II as defined by the 435 Method. Samples which contained less than 10% asbestos were prepared for observation according to the point count technique as defined by the 435 Method. This analysis was performed with a standard cross-hair reticle.

Sample ID	Lab Number	Layer Description

E4-2	11807335	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: None Detected

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E5-1	11807336	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: None Detected

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E5-2	11807337	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: None Detected

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E5-3	11807338	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: None Detected

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.



Bulk Asbestos Material Analysis

(Air Resources Board Method 435, June 6, 1991)

Accutest Northern California, Inc.

Project Manager

2105 Lundy Ave

San Jose, CA 95131

Client ID: 3164

Report Number: N008580

Date Received: 09/08/16

Date Analyzed: 09/15/16

Date Printed: 09/15/16

Job ID/Site: C47015X

FALI Job ID: 3164

PLM Report Number: N/A

Total Samples Submitted: 32

Total Samples Analyzed: 32

Sample Preparation and Analysis:

Samples were analyzed by the Air Resources Board's Method 435, Determination of Asbestos Content of Serpentine Aggregate. Samples were ground to 200 particle size in the laboratory. Approximately 1 pint was retained for analysis. Samples were prepared for observation according to the guidelines of Exception I and Exception II as defined by the 435 Method. Samples which contained less than 10% asbestos were prepared for observation according to the point count technique as defined by the 435 Method. This analysis was performed with a standard cross-hair reticle.

Sample ID	Lab Number	Layer Description

E6-1	11807339	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: None Detected

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E6-2	11807340	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: None Detected

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E6-4	11807341	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: None Detected

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E7-1	11807342	Black Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: None Detected

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.



Bulk Asbestos Material Analysis

(Air Resources Board Method 435, June 6, 1991)

Accutest Northern California, Inc.

Project Manager

2105 Lundy Ave

San Jose, CA 95131

Client ID: 3164

Report Number: N008580

Date Received: 09/08/16

Date Analyzed: 09/15/16

Date Printed: 09/15/16

Job ID/Site: C47015X

FALI Job ID: 3164

PLM Report Number: N/A

Total Samples Submitted: 32

Total Samples Analyzed: 32

Sample Preparation and Analysis:

Samples were analyzed by the Air Resources Board's Method 435, Determination of Asbestos Content of Serpentine Aggregate. Samples were ground to 200 particle size in the laboratory. Approximately 1 pint was retained for analysis. Samples were prepared for observation according to the guidelines of Exception I and Exception II as defined by the 435 Method. Samples which contained less than 10% asbestos were prepared for observation according to the point count technique as defined by the 435 Method. This analysis was performed with a standard cross-hair reticle.

Sample ID	Lab Number	Layer Description

E7-2	11807343	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: **None Detected**

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E7-3	11807344	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: **None Detected**

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E7-5	11807345	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: **None Detected**

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E8-1	11807346	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: **None Detected**

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.



Bulk Asbestos Material Analysis

(Air Resources Board Method 435, June 6, 1991)

Accutest Northern California, Inc.

Project Manager

2105 Lundy Ave

San Jose, CA 95131

Client ID: 3164

Report Number: N008580

Date Received: 09/08/16

Date Analyzed: 09/15/16

Date Printed: 09/15/16

Job ID/Site: C47015X

FALI Job ID: 3164

PLM Report Number: N/A

Total Samples Submitted: 32

Total Samples Analyzed: 32

Sample Preparation and Analysis:

Samples were analyzed by the Air Resources Board's Method 435, Determination of Asbestos Content of Serpentine Aggregate. Samples were ground to 200 particle size in the laboratory. Approximately 1 pint was retained for analysis. Samples were prepared for observation according to the guidelines of Exception I and Exception II as defined by the 435 Method. Samples which contained less than 10% asbestos were prepared for observation according to the point count technique as defined by the 435 Method. This analysis was performed with a standard cross-hair reticle.

Sample ID	Lab Number	Layer Description

E8-2	11807347	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: **None Detected**

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E8-3	11807348	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: **None Detected**

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E8-4	11807349	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: **None Detected**

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

E8-5	11807350	Brown Soil

Visual Estimation Results:

Matrix percentage of entire 100

Visual estimation percentage: **None Detected**

Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.



Bulk Asbestos Material Analysis

(Air Resources Board Method 435, June 6, 1991)

Accutest Northern California, Inc.

Project Manager

2105 Lundy Ave

San Jose, CA 95131

Client ID: 3164

Report Number: N008580

Date Received: 09/08/16

Date Analyzed: 09/15/16

Date Printed: 09/15/16

Job ID/Site: C47015X

FALI Job ID: 3164

PLM Report Number: N/A

Total Samples Submitted: 32

Total Samples Analyzed: 32

Sample Preparation and Analysis:

Samples were analyzed by the Air Resources Board's Method 435, Determination of Asbestos Content of Serpentine Aggregate. Samples were ground to 200 particle size in the laboratory. Approximately 1 pint was retained for analysis. Samples were prepared for observation according to the guidelines of Exception I and Exception II as defined by the 435 Method. Samples which contained less than 10% asbestos were prepared for observation according to the point count technique as defined by the 435 Method. This analysis was performed with a standard cross-hair reticle.

Sample ID	Lab Number	Layer Description

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification (LOQ) = 0.25%. Trace denotes the presence of asbestos below the LOQ. ND = None Detected.

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FINAL LAB REPORT

C47015X

A9226

29-Sep-2016

Prepared by

SGS NORTH AMERICA

Prepared for

SGS Accutest Laboratories

Nutan Kabir

2105 Lundy Avenue

San Jose, CA 95131

Phone: 408.588.0200

Email: nutan.kabir@sgs.com

This report is approved by

A handwritten signature in black ink that reads "Tamara Morgan".

Tamara Morgan
2016.09.29 15:54:35 -04'00'

Tamara Morgan

Senior Project Manager

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Results reported relate only to the items tested.



PROJECT INFORMATION SUMMARY *(When applicable, see QC Annotations for details)*

Client Project	C47015X
SGS Project #	A9226
Analytical Protocol(s)	Method 1613B TCDD
No. Samples Submitted	32
Additional QC Sample(s)	0
No. Laboratory Method Blanks	2
No. OPRs / Batch CS3	2
Date Received	09-Sep-16
Condition Received	Good
Temperature upon Receipt (°C)	6.0
Extraction within Holding Time	Yes
Analysis within Holding Time	Yes



QC ANNOTATIONS:

1. Please see Appendices attached for data qualifier/attribute and lab identifier descriptions which may be contained in the project.
2. The reported concentration of the labeled ^{13}C -2,3,7,8-TCDD for the beginning Continuing Calibration (CS3) analyzed on 09/22/2016 at 20:24:12 is below recommended QC limits. The unlabeled 2,3,7,8-TCDD compound passes QC limits and all samples are Non-Detect (ND) for the compound. The Estimated Detection Limits are also below the reporting limit. Samples A9226_14387_001, _002, _003, _004, _005, _006 and _007 are affected.
3. The reported concentration of the labeled ^{13}C -2,3,7,8-TCDD for the beginning Continuing Calibration (CS3) analyzed on 09/26/2016 at 00:53:57 is below recommended QC limits. The unlabeled 2,3,7,8-TCDD compound passes QC limits and all samples are Non-Detect (ND) for the compound. The Estimated Detection Limits are also below the reporting limit. Samples A9226_14388_017, _018, _019, _020, _021, _022, _023 and _024 are affected.

APPENDIX A: GENERAL DATA QUALIFIERS / DATA ATTRIBUTES

B	The analyte was found in the method blank, at a concentration that was at least 10% of the concentration in the sample.
C	Two or more congeners co-elute. In EDDs, C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group are shown with the number of the lowest IUPAC co-eluter.
E	The reported concentration exceeds the calibration range (upper point of the calibration curve) and is an estimated value.
EMPC	Represents an Estimated Maximum Possible Concentration. EMPCs arise in cases where the signal/noise ratio is not sufficient for peak identification (the determined ion-abundance ratio is outside the allowed theoretical range), or where there is a co-eluting interference.
H/h	If the standard recovery is below the method or SOP specified value "H" is assigned. If the obtained value is less than half the specified value "h" is assigned.
J	Indicates that an analyte has a concentration below the reporting limit (lowest point of the calibration curve) and is an estimated value.
ND	Indicates a non-detect.
NR or R	Indicates a value that is not reportable.
PR	Due to interference, the associated congener is poorly resolved.
QI	Indicates the presence of a quantitative interference.
SI	Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates.
U	The analyte was not detected. The estimated detection limit (EDL) may be reported for this analyte.
V	The labeled standard recovery was found to be outside of the method control limits.



APPENDIX B: DRBC/TMDL SPECIFIC DATA QUALIFIERS / DATA ATTRIBUTES

J	The reported result is an estimate. The value is less than the minimum calibration level but greater than the estimated detection limit (EDL).
U	The analyte was not detected in the sample at the estimated detection limit (EDL).
E	The reported concentration is an estimate. The value exceeds the upper calibration range (upper point of the calibration curve).
D	Dilution Data. Result was obtained from the analysis of a dilution.
B	Analyte found in the sample and associated method blank.
C	Co-eluting congener
Cxx	Co-elutes with the indicated congener, data is reported under the lowest IUPAC congener. 'Xx' denotes the IUPAC number with the lowest numerical designated congener.
NR	Analyte is not reportable because of problems in sample preparation or analysis.
V	Labeled standard recovery is not within method control limits.
X	Results from re-injection/repeat/second-column analysis.
EMPC	Estimated maximum possible concentration. Indicates that a peak is identified but did not meet the method specified ion-abundance ratio.

APPENDIX C: LAB IDENTIFIERS

AR	Indicates use of the archived portion of the sample extract.
CU	Indicates a sample that required additional clean-up prior to MS injection/processing.
D	Indicates a dilution of the sample extract. The number that follows the "D" indicates the dilution factor.
DE	Indicates a dilution performed with the addition of ES (extraction standard) solution.
DUP	Designation for a duplicate sample.
MS	Designation for a matrix spike.
MSD	Designation for a matrix spike duplicate.
RJ	Indicates a reinjection of the sample extract.
S	Indicates a sample split. The number that follows the "S" indicates the split factor.



SGS CERTIFICATIONS

Arkansas	88-0682
California (ELAP)	Interim ELAP Cert #2914
CLIA	34D1013708
Connecticut	PH-0258
USDA Soil Permit	P330-14-00135
DoD	2726.01
Florida (Primary NELAP)	E87634
ISO 17025/IEC	2726.01
Louisiana	4115
Maine	#2014020
Massachusetts	M-NC919
Minnesota (Primary NELAP For Method 23)	Lab #037-999-459 Cert #688823
New Jersey	NC100
New York	11685
North Carolina DWR	481
North Dakota	R-197
Oregon	NC200002
Pennsylvania	68-03675
South Carolina	Lab #99029 Cert #99029002
Texas	T104704260-13-5
US Coast Guard	16714/159.317/SGS
Virginia	Lab #460214 Cert #3006
Washington	C913
West Virginia	293

Sample ID: E8-2				Method 1613B			
Client Data		Sample Data		Laboratory Data		Date Received:	
Name: SGS Accutest Laboratories		Matrix: Soil		Lab Project ID: A9226		09-Sep-2016	
Project ID: C47015X		Weight/Volume: 9.97 g		Lab Sample ID A9226_14388_DF_029		19-Sep-2016	
Date Collected: 06-Sep-2016		% Solid: 82.5 %		QC Batch No: 14388		26-Sep-2016	
		Split:		Dilution: -		Time Analyzed: 18:19:42	
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	NID	0.147			ES 2378-TCDD	85.2	
Totals					Standard	CS/AS Recoveries	
					CS 37Cl-2378-TCDD	100	
						5500 Business Drive Wilmington, NC 28405, USA www.us.sgs.com	
						Tel: +1 910 794-1613; Toll-Free 866 846-8290	

METHOD 1613B

PCDD/F ONGOING PRECISION AND RECOVERY (OPR)

FORM 8A

Lab Name:
Initial Calibration:
Instrument ID:
VER Data Filename:
Lab ID:

SGS North America
ICAL: MM1_DF_12212015_14JUL2016
MM1
160923P02
OPR1_14387_DF

ZB-5ms
22-SEP-2016 21:11:29

NATIVE ANALYTES	SPIKE CONC.	CONC. FOUND	RANGE (ng/mL)	OK
2,3,7,8-TCDD	10	10.1	6.7 - 15.8	Y

Contract-required concentration limits for OPR as specified in Table 6,
Method 1613. 10/94

METHOD 1613B

PCDD/F ONGOING PRECISION AND RECOVERY (OPR)

FORM 8B

Lab Name:SGS North America

Initial Calibration:ICAL: MM1_DF_12212015_14JUL2016

Instrument ID:MM1GC Column ID:ZB-5ms

VER Data Filename:160923P02Analysis Date:22-SEP-2016 21:11:29

Lab ID:OPR1_14387_DF

LABELED ANALYTES	SPIKE CONC.	CONC. FOUND	RANGE (ng/mL)	OK
13C-2,3,7,8-TCDD	100	90.6	20 - 175	Y

CLEANUP STANDARD				
37Cl-2,3,7,8-TCDD	40	43.6	12.4 - 76.4	Y

Contract-required concentration limits for OPR as specified in Table 6,
Method 1613. 10/94

Processed: 27 Sep 2016 12:28 Analyst: AL

METHOD 1613B

PCDD/F ONGOING PRECISION AND RECOVERY (OPR)

FORM 8A

Lab Name:
Initial Calibration:
Instrument ID:
VER Data Filename:
Lab ID:

SGS North America
ICAL: MM1_DF_12212015_14JUL2016
MM1
160926P03
OPR1_14388_DF

ZB-5ms
26-SEP-2016 01:43:09

NATIVE ANALYTES	SPIKE CONC.	CONC. FOUND	RANGE (ng/mL)	OK
2,3,7,8-TCDD	10	11.4	6.7 - 15.8	Y

Contract-required concentration limits for OPR as specified in Table 6,
Method 1613. 10/94

METHOD 1613B

PCDD/F ONGOING PRECISION AND RECOVERY (OPR)

FORM 8B

Lab Name: SGS North America

Initial Calibration: ICAL: MM1_DF_12212015_14JUL2016

Instrument ID: MM1 GC Column ID: ZB-5ms

VER Data Filename: 160926P03 Analysis Date: 26-SEP-2016 01:43:09

Lab ID: OPR1_14388_DF

LABELED ANALYTES	SPIKE CONC.	CONC. FOUND	RANGE (ng/mL)	OK
13C-2,3,7,8-TCDD	100	101	20 - 175	Y

CLEANUP STANDARD				
37Cl-2,3,7,8-TCDD	40	48.3	12.4 - 76.4	Y

Contract-required concentration limits for OPR as specified in Table 6,
Method 1613. 10/94



5500 Business Drive
Wilmington, NC 28405 USA
Tel: 910 794-1613
Toll Free: 866 846-8290
Fax: 910 794-3919

Sample Receipt Notification

Project Manager: Tamara Morgan
Receipt Date & Time: 09-Sep-16 at 09:50
AP Project name: A9226
Requested TAT: 21 days
Projected due date: 30-Sep-16
Matrix: Soil
Phone#: 910-794-1613
Email Address: Tamara.Morgan@sgs.com

Company Contact: Nutan Kabir
Company: SGS Accutest Laboratories
Project Name & Site: C47015X
Project PO#: C47015X
QAAP/Contract #: N/A
Requested Analysis: Method 1613B 2378 TCDD
Phone#: 408-588-0200
Email Address: nutan.kabir@sgs.com

Client Smp ID	AP Smp ID	Sample Condition & Notes	Quantity	Size	Sampling Date	Sampling Time	Received Temp	Container #	Shipping #
E1-1	A9226_001	SO	1	16 oz. glass	06-Sep-16	00:00	6	1	777186897025
E1-2	A9226_002	SO	1	16 oz. glass	06-Sep-16	00:00	6	1	777186897025
E1-3	A9226_003	SO	1	16 oz. glass	06-Sep-16	00:00	6	1	777186897025
E1-4	A9226_004	SO	1	16 oz. glass	06-Sep-16	00:00	6	1	777186897025
E1-8	A9226_005	SO	1	16 oz. glass	06-Sep-16	00:00	6	1	777186897025
E2-1	A9226_006	SO	1	16 oz. glass	06-Sep-16	00:00	6	1	777186897025
E2-2	A9226_007	SO	1	16 oz. glass	06-Sep-16	00:00	6	1	777186897025
E2-3	A9226_008	SO	1	16 oz. glass	06-Sep-16	00:00	6	1	777186897025
E2-5	A9226_009	SO	1	16 oz. glass	06-Sep-16	00:00	6	1	777186897025
E2-7	A9226_010	SO	1	8 oz. glass	06-Sep-16	00:00	6	1	777186897025
E3-1	A9226_011	SO	1	16 oz. glass	06-Sep-16	00:00	6	1	777186897025
E3-2	A9226_012	SO	1	16 oz. glass	06-Sep-16	00:00	6	1	777186897025
E3-4	A9226_013	SO	1	16 oz. glass	06-Sep-16	00:00	6	1	777186897025
E3-6	A9226_014	SO	1	8 oz. glass	06-Sep-16	00:00	6	1	777186897025
E4-1	A9226_015	SO	1	16 oz. glass	06-Sep-16	00:00	6	1	777186897025
E4-2	A9226_016	SO	1	16 oz. glass	06-Sep-16	00:00	6	1	777186897025
E4-3	A9226_017	SO	1	16 oz. glass	06-Sep-16	00:00	6	1	777186897025

Preservation Type:	Sample Seals:	No
Notes/Comments:		
Samples received intact		

Any un-extracted sample will be stored for 90 days from reporting date. Additional storage fees may apply for any samples stored longer than 90 days.

Received by: Tamara Morgan

Logged in by: Tamara Morgan

All services are rendered in accordance with the applicable SGS General Conditions of Service accessible via:

http://www.sgs.com/terms_and_conditions.htm

QC'ed by: AK 12 Sep 16



5500 Business Drive
Wilmington, NC 28405 USA
Tel: 910 794-1613
Toll Free: 866 846-8290
Fax: 910 794-3919

Sample Receipt Notification

Project Manager: Tamara Morgan
Receipt Date & Time: 09-Sep-16 at 09:50
AP Project name: A9226
Requested TAT: 21 days
Projected due date: 30-Sep-16
Matrix: Soil
Phone#: 910-794-1613
Email Address: Tamara.Morgan@sgs.com

Company Contact: Nutan Kabir
Company: SGS Accutest Laboratories
Project Name & Site: C47015X
Project PO#: C47015X
QAAP/Contract #: N/A
Requested Analysis: Method 1613B 2378 TCDD
Phone#: 408-588-0200
Email Address: nutan.kabir@sgs.com

Client Smp ID	AP Smp ID	Sample Condition & Notes	Quantity	Size	Sampling Date	Sampling Time	Received Temp	Container #	Shipping #
E5-1	A9226_018	SO	1	18 oz. glass	06-Sep-16	00:00	6	1	777186897025
E5-2	A9226_019	SO	1	18 oz. glass	06-Sep-16	00:00	6	1	777186897025
E5-3	A9226_020	SO	1	16 oz. glass	06-Sep-16	00:00	6	1	777186897025
E6-1	A9226_021	SO	1	18 oz. glass	06-Sep-16	00:00	6	1	777186897025
E6-2	A9226_022	SO	1	18 oz. glass	06-Sep-16	00:00	6	1	777186897025
E6-4	A9226_023	SO	1	18 oz. glass	06-Sep-16	00:00	6	1	777186897025
E7-1	A9226_024	SO	1	18 oz. glass	06-Sep-16	00:00	6	1	777186897025
E7-2	A9226_025	SO	1	18 oz. glass	06-Sep-16	00:00	6	1	777186897025
E7-3	A9226_026	SO	1	18 oz. glass	06-Sep-16	00:00	6	1	777186897025
E7-5	A9226_027	SO	1	18 oz. glass	06-Sep-16	00:00	6	1	777186897025
E8-1	A9226_028	SO	1	18 oz. glass	06-Sep-16	00:00	6	1	777186897025
E8-2	A9226_029	SO	1	18 oz. glass	06-Sep-16	00:00	6	1	777186897025
E8-3	A9226_030	SO	1	18 oz. glass	06-Sep-16	00:00	6	1	777186897025
E8-4	A9226_031	SO	1	18 oz. glass	06-Sep-16	00:00	6	1	777186897025
E8-5	A9226_032	SO	1	18 oz. glass	06-Sep-16	00:00	6	1	777186897025

Preservation Type:	Sample Seals:	No
Notes/Comments:	Any un-extracted sample will be stored for 90 days from reporting date. Additional storage fees may apply for any samples stored longer than 90 days.	
Samples received intact		

Received by: Tamara Morgan

Logged in by: Tamara Morgan

All services are rendered in accordance with the applicable SGS General Conditions of Service accessible via:

http://www.sgs.com/terms_and_conditions.htm

QC'ed by: AK 12 Sep 16

CHAIN OF CUSTODY



2105 Lundy Avenue, San Jose, CA 95131
TEL: 408-588-0200 FAX: 408-588-0201
www.sgs.com

Client / Reporting Information				Project Information				Requested Analysis (see TEST CODE sheet)				Matrix Codes			
Company Name: SGS Accutest Laboratories				Project Name: Vallico Mall, Wolfe Rd, Cupertino CA											
Street Address 2105 Lundy Avenue				Billing Information (if different from Report to)											
City San Jose, CA 95131				Company Name											
Project Contact nutan.kabir@sgs.com				Street Address											
Phone # 408-588-0200				City San Jose											
Fax #				State											
Sampler(s) Name(s)				Attention:											
Field ID / Point of Collection				Collection				Matrix				Number of preserved Bottles			
				Date				Time				Sampled by			
13X E3-4				9/6/16				12:00:00 AM				SO			
14X E3-6				9/6/16				12:00:00 AM				SO			
15X E4-1				9/6/16				12:00:00 AM				SO			
16X E4-2				9/6/16				12:00:00 AM				SO			
17X E4-3				9/6/16				12:00:00 AM				SO			
18X E5-1				9/6/16				12:00:00 AM				SO			
19X E5-2				9/6/16				12:00:00 AM				SO			
20X E5-3				9/6/16				12:00:00 AM				SO			
21X E6-1				9/6/16				12:00:00 AM				SO			
22X E6-2				9/6/16				12:00:00 AM				SO			
23X E6-4				9/6/16				12:00:00 AM				SO			
24X E7-1				9/6/16				12:00:00 AM				SO			
Turnaround Time (Business days)				Data Deliverable Information				Comments / Special Instructions							
Approved By (SGS Accutest PM) / Date:				Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ FULLT1 (Level 3+4) ☐ NJ Reduced ☐ Commercial "C" Commercial "A" = Results Only Commercial "B" = Results + QC Summary Commercial "C" = Results + QC Summary + Partial Raw data NJ Reduced = Results + QC Summary				Please sub to SGS Wilmington (NC) for 2,3,7,8 TCDD.							
Relinquished by Sampler: La B...				Relinquished By: 3				Relinquished By: 4				Relinquished By: 5			
Relinquished by Sampler:				Relinquished By:				Relinquished By:				Relinquished By:			
Relinquished by:				Relinquished By:				Relinquished By:				Relinquished By:			

2105 Lundy Avenue, San Jose, CA 95131
TEL: 408-588-0200 FAX: 408-588-0201
www.sgs.com

SGS

ACCUTEST

2105 Lundy Avenue, San Jose, CA 95131
TEL: 408-588-0200 FAX: 408-588-0201
[www.sgs.com](#)

Client / Reporting Information		Project Name:																																
Company Name: SGS Accutest Laboratories		Vallico Mail/Wolfie Rd,Cupertino CA																																
Street Address 2105 Lundy Avenue																																		
City	State	Zip																																
San Jose,	CA	95131																																
Project Contact E-mail nutan.kabir@sgs.com		Billing Information (if different from Report to) Company Name																																
Phone # 408-588-0200		Street Address																																
Fax #		City State Zip																																
Sampler(s) Name(s)		Attention:																																
SGS Account Sample #	MEOH/DI Vol #	Date	Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles																											
							HCl	NaOH	HNO3	H2SO4	NONE	Dl Water	MEOH	ENCORE																				
25X E7-2		9/6/16	12:00:00 AM		SO																													
26X E7-3		9/6/16	12:00:00 AM		SO																													
27X E7-5		9/6/16	12:00:00 AM		SO																													
28X E8-1		9/6/16	12:00:00 AM		SO																													
29X E8-2		9/6/16	12:00:00 AM		SO																													
30X E8-3		9/6/16	12:00:00 AM		SO																													
31X E8-4		9/6/16	12:00:00 AM		SO																													
32X E8-5		9/6/16	12:00:00 AM		SO																													
Turnaround Time (Business days)															Data Deliverable Information										Comments / Special Instructions									
Approved By (SGS Accutest PM): / Date:															☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ FULLT1 (Level 3+4) ☐ NJ Reduced ☐ Commercial "C" Commercial "A" = Results Only Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data										Please sub to SGS Wilmington (NC) for 2,3,7,8 TCDD.									
☐ Std. 10 Business Days ☐ 5 Day RUSH ☐ 3 Day EMERGENCY ☐ 2 Day EMERGENCY ☒ 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink																																		
Relinquished by Sampler:															Sample Custody must be documented below each time samples change possession, including courier delivery.																			
Date Time:															Relinquished By:										Date Time:									
1 [Signature]															[Signature] 15:00 FOX										2									
Relinquished by Sampler:															Received By:										Date Time:									
3 [Signature]															3 Samara Morgan 09/06/16										4									
Relinquished by:															Received By:										Date Time:									
5															Intact Not Intact										On Ice Cooler Temp.									
															Preserved where applicable										6.0									

10/20/14

Date / Time: 9/8/2016 3:02:41 PM
CSR: NUTANK
Job #: C47015X
Client Project: Vallico Mall, Wolfe Rd, Cupertino CA
Deliverable: COMMB
TAT: Due 9/15/2016

Sub Lab: SGS Wilmington NC
Address: 5500 Business Dr
City: Wilmington
State: NC
Zip: 28405
Contact: Trent Temperly
Phone: 3173709644

SGS Accutest Sample #	Client Sample Description	Analysis	Location	Sampled By	Date Sampled	Time Sampled	Aliquot
<u>C47015-1X</u>	<u>E1-1</u>	<u>SASBCARB435_SB1613PCDDDF..</u>			<u>9/6/2016</u>	<u>12:00:00 AM</u>	
<u>C47015-2X</u>	<u>E1-2</u>	<u>SASBCARB435_SB1613PCDDDF..</u>			<u>9/6/2016</u>	<u>12:00:00 AM</u>	
<u>C47015-3X</u>	<u>E1-3</u>	<u>SASBCARB435_SB1613PCDDDF..</u>			<u>9/6/2016</u>	<u>12:00:00 AM</u>	
<u>C47015-4X</u>	<u>E1-4</u>	<u>SASBCARB435_SB1613PCDDDF..</u>			<u>9/6/2016</u>	<u>12:00:00 AM</u>	
<u>C47015-5X</u>	<u>E1-8</u>	<u>SASBCARB435_SB1613PCDDDF..</u>			<u>9/6/2016</u>	<u>12:00:00 AM</u>	
<u>C47015-6X</u>	<u>E2-1</u>	<u>SASBCARB435_SB1613PCDDDF..</u>			<u>9/6/2016</u>	<u>12:00:00 AM</u>	
<u>C47015-7X</u>	<u>E2-2</u>	<u>SASBCARB435_SB1613PCDDDF..</u>			<u>9/6/2016</u>	<u>12:00:00 AM</u>	
<u>C47015-8X</u>	<u>E2-3</u>	<u>SASBCARB435_SB1613PCDDDF..</u>			<u>9/6/2016</u>	<u>12:00:00 AM</u>	
<u>C47015-9X</u>	<u>E2-5</u>	<u>SASBCARB435_SB1613PCDDDF..</u>			<u>9/6/2016</u>	<u>12:00:00 AM</u>	
<u>C47015-10X</u>	<u>E2-7</u>	<u>SASBCARB435_SB1613PCDDDF..</u>			<u>9/6/2016</u>	<u>12:00:00 AM</u>	
<u>C47015-11X</u>	<u>E3-1</u>	<u>SASBCARB435_SB1613PCDDDF..</u>			<u>9/6/2016</u>	<u>12:00:00 AM</u>	
<u>C47015-12X</u>	<u>E3-2</u>	<u>SASBCARB435_SB1613PCDDDF..</u>			<u>9/6/2016</u>	<u>12:00:00 AM</u>	
<u>C47015-13X</u>	<u>E3-4</u>	<u>SASBCARB435_SB1613PCDDDF..</u>			<u>9/6/2016</u>	<u>12:00:00 AM</u>	
<u>C47015-14X</u>	<u>E3-6</u>	<u>SASBCARB435_SB1613PCDDDF..</u>			<u>9/6/2016</u>	<u>12:00:00 AM</u>	
<u>C47015-15X</u>	<u>E4-1</u>	<u>SASBCARB435_SB1613PCDDDF..</u>			<u>9/6/2016</u>	<u>12:00:00 AM</u>	
<u>C47015-16X</u>	<u>E4-2</u>	<u>SASBCARB435_SB1613PCDDDF..</u>			<u>9/6/2016</u>	<u>12:00:00 AM</u>	
<u>C47015-17X</u>	<u>E4-3</u>	<u>SASBCARB435_SB1613PCDDDF..</u>			<u>9/6/2016</u>	<u>12:00:00 AM</u>	

Jamara Morgan 09/09/16

Agenda 15

<u>C47015-18X</u>	<u>E5-1</u>	<u>SASBCARB435 ,SB1613PCDDDF ,</u>	<u>9/6/2016</u>	<u>12:00:00 AM</u>
<u>C47015-19X</u>	<u>E5-2</u>	<u>SASBCARB435 ,SB1613PCDDDF ,</u>	<u>9/6/2016</u>	<u>12:00:00 AM</u>
<u>C47015-20X</u>	<u>E5-3</u>	<u>SASBCARB435 ,SB1613PCDDDF ,</u>	<u>9/6/2016</u>	<u>12:00:00 AM</u>
<u>C47015-21X</u>	<u>E6-1</u>	<u>SASBCARB435 ,SB1613PCDDDF ,</u>	<u>9/6/2016</u>	<u>12:00:00 AM</u>
<u>C47015-22X</u>	<u>E6-2</u>	<u>SASBCARB435 ,SB1613PCDDDF ,</u>	<u>9/6/2016</u>	<u>12:00:00 AM</u>
<u>C47015-23X</u>	<u>E6-4</u>	<u>SASBCARB435 ,SB1613PCDDDF ,</u>	<u>9/6/2016</u>	<u>12:00:00 AM</u>
<u>C47015-24X</u>	<u>E7-1</u>	<u>SASBCARB435 ,SB1613PCDDDF ,</u>	<u>9/6/2016</u>	<u>12:00:00 AM</u>
<u>C47015-25X</u>	<u>E7-2</u>	<u>SASBCARB435 ,SB1613PCDDDF ,</u>	<u>9/6/2016</u>	<u>12:00:00 AM</u>
<u>C47015-26X</u>	<u>E7-3</u>	<u>SASBCARB435 ,SB1613PCDDDF ,</u>	<u>9/6/2016</u>	<u>12:00:00 AM</u>
<u>C47015-27X</u>	<u>E7-5</u>	<u>SASBCARB435 ,SB1613PCDDDF ,</u>	<u>9/6/2016</u>	<u>12:00:00 AM</u>
<u>C47015-28X</u>	<u>E8-1</u>	<u>SASBCARB435 ,SB1613PCDDDF ,</u>	<u>9/6/2016</u>	<u>12:00:00 AM</u>
<u>C47015-29X</u>	<u>E8-2</u>	<u>SASBCARB435 ,SB1613PCDDDF ,</u>	<u>9/6/2016</u>	<u>12:00:00 AM</u>
<u>C47015-30X</u>	<u>E8-3</u>	<u>SASBCARB435 ,SB1613PCDDDF ,</u>	<u>9/6/2016</u>	<u>12:00:00 AM</u>
<u>C47015-31X</u>	<u>E8-4</u>	<u>SASBCARB435 ,SB1613PCDDDF ,</u>	<u>9/6/2016</u>	<u>12:00:00 AM</u>
<u>C47015-32X</u>	<u>E8-5</u>	<u>SASBCARB435 ,SB1613PCDDDF ,</u>	<u>9/6/2016</u>	<u>12:00:00 AM</u>

Comments: Please sub to SGS Wilmington (NC) for 2,3,7,8 TCDD.

Sample Management Receipt: _____ Date: _____

Samara Morgan
09/08/16 0900