

October 12, 2015

RECEIVED

By Alameda County Environmental Health 10:31 am, Oct 16, 2015

Mr. Mark Detterman Senior Hazardous Materials Specialist, PG, CEG Alameda County Environmental Health 1131 Harbor Bay Parkway Alameda, CA 94502

RE: ADDITIONAL REMEDIAL INVESTIGATION REPORT AND PROPOSED INTERIM REMEDIAL ACTION PLAN FORMER ROCKBRIDGE DRY CLEANERS SHOPS AT THE RIDGE REDEVELOPMENT SITE 5100 BROADWAY, OAKLAND, CALIFORNIA RO# 0003172 TETRA TECH PROJECT NO. 117-7429001

Dear Mr. Detterman:

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Sincerely, Terramar Retail Centers

Rick Henderson Vice President Construction & Design



Additional Remedial Investigation Report AND PROPOSED INTERIM REMEDIAL ACTION PLAN FORMER ROCKBRIDGE DRY CLEANERS SHOPS AT THE RIDGE REDEVELOPMENT SITE 5100 BROADWAY, OAKLAND, CALIFORNIA

October 12, 2015

Prepared for:

Alameda County Department of Environmental Health 1131 Harbor Bay Parkway Alameda, California 94502

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1.0 INTRODUCTION

This report presents Tetra Tech's additional site characterization work in connection with the former Rockridge Cleaners located at 5100 (5114 tenant space) Broadway in Oakland, California. Two additional rounds of subsurface investigation were conducted in July/August and September 2015, in accordance with:

- 1) Work Plan for Additional Site Characterization, Former Rockridge Cleaners, 5100 Broadway, Oakland, California, Tetra Tech Project No. 117-7429001, dated June 18, 2015; and
- Addendum Work Plan for Additional Site Characterization, Former Rockridge Cleaners, 5100 Broadway, Oakland, California, RO# 0003172, Tetra Tech Project No. 117-7429001, dated August 31, 2015.

Both documents were previously uploaded to the Alameda County Department of Environmental Health (ACDEH) Cleanup Oversight Program database on June 18 and August 31, 2015, respectively, and subsequently uploaded to GeoTracker. The ACDEH conditionally approved the work plans on July 13 and September 1, 2015, respectively. The July 13, 2015 ACDEH approval letter also approved Tetra Tech's June 18, 2015 *Site Management Plan* (SMP) scope of work, to be implemented during demolition of the multi-tenant building housing the former Rockridge Dry Cleaner, just prior to implementing the July/August 2015 work.

This report also presents an interim remedial action plan (IRAP) to take advantage of the window of time available to excavate soil in the area of impact during site redevelopment work currently in progress.

2.0 BACKGROUND

The former Rockridge Cleaners was located in "Building 5" of the six building Rockridge Shopping Center (Figure 1), which is slated for two phases of demolition and construction, resulting in the new "Shops at the Ridge" redevelopment (Figure 2). Buildings 5 and 6 have been demolished during the first phase (Phase I) of redevelopment, and generally will be replaced by contiguous Building K and Building A, respectively, along with stand-alone Building C and Building D (Figure 2). Terramar, with their general contractor Swinerton Builders, demolished Building 6 beginning the week of June 8, 2015, and demolished Building 5 between July 23 and July 29, 2015.

Tetra Tech was on-site during Building 5 demolition, in accordance with our June 18, 2015 SMP scope of work to monitor sub-slab soils during foundation and footing removals. Construction of the new Building A (future Safeway) is underway, with primary footing and block wall work nearly complete as of October 9, 2015. The former Building 5 area has remained undisturbed following demolition, while Tetra Tech has implemented

both work plans. Figure 3 depicts the SMP observation areas and presents the results of Tetra Tech's field monitoring of sub-slab soils after building demolition. No positive field readings were detected in soil using a MiniRAE 3000 field instrument, and no unusual odors or soil discoloration were noted when the slab and footings were pulled up.

Building 5 demolition photos are presented in Appendix A, focusing on the former Rockridge Dry Cleaner tenant space. During demolition of the tenant space, it was learned that rear 15-feet of the Rockridge Dry Cleaner 5114 tenant space was actually the bathroom/server room area for the adjacent 5112 tenant space to north (former credit union). This was not readily obvious during prior walk-throughs of the tenant spaces prior to demolition. As such, the SS-VMP-1 borings completed inside by the "rear wall" of the dry cleaner in 2014, were actually located 15 feet farther to the southeast than previously believed. As the 5112 tenant space slab was 14-inches higher than the 5114 tenant space, the rear floor area at 5114 had been raised with a concrete slab to match grade at 5112, which covered over a 12"x12" steel floor drain that was original to the rear of the 5114 dry cleaner tenant space. The drain likely served the former dry cleaner machine(s) in the tenant space, but no bolt holes were observed in the original slab to indicate where a dry cleaner machine would have been positioned.

A concrete step up was also discovered beneath the raised slab area, leading to a former doorway between 5114 and 5112, indicating the two tenant spaces were connected at one time. A shared foyer door (metal door) entrance at sidewalk level was also present at the rear of the two tenant spaces, prior to the installation of the concrete ramp-up to a former doorway into the 5112 expansion area (tenant improvement -T.I. - prior to credit union). Both doors had been walled off on the interior by more recent T.I. work (likely by the credit union to prevent break-ins from the rear of the space). Figure 4 presents the updated tenant space layout, and observations made during building demolition.

The July/August 2015 sampling was intended to further evaluate shallow soil and soil gas concentrations previously detected at the former dry cleaner, where a limited release of tetrachlorothethene (PCE) was believed to have occurred in connection with the sanitary sewer line serving the former dry cleaner space (based on previous data collected by Tetra Tech in 2001 and 2014). In summary, low concentrations of PCE were detected in soil at three locations along the sewer line in 2001: SB-11-5' (6.3 micrograms per kilogram, μ g/Kg); SB-3-4' (14 μ g/Kg); and SB-4-3.5' (17 μ g/Kg). Elevated concentrations of PCE were subsequently detected in soil vapor samples collected in 2014 from two locations between soil borings SB-3 and SB-4: VMP-2 (3,800 micrograms per cubic meter, μ g/m³); and VMP-3 (3,600 μ g/m³). PCE was not detected in soil (SS-VMP-1-1.5') or soil vapor (SS-VMP-1) in borings completed inside the dry cleaner tenant space in 2014, or in groundwater samples collected in 2001 and 2014 from two borings (SB-2 and SB-1) completed in front of the dry cleaner space (parking stall area). PCE was not detected in soil vapor at VMP-1, also completed in front of the dry cleaner in 2014. Figure 3 shows the 2001 and 2014 soil boring and vapor probe locations in the vicinity of the

former dry cleaner, and also depicts a previously proposed soil excavation along a section of sanitary sewer line behind the former dry cleaner. The excavation was proposed to remove the low concentrations of PCE detected in soil, and elevated PCE concentrations detected in soil vapor, along the sewer line behind the former cleaners.

Based the data obtained from the July/August 2015 sampling, the nature of the former PCE release appears more likely associated with a minor surface spill, directly behind the former dry cleaner tenant space. It should be noted that the asphalt behind Building 5 was 8 to 10 inches thick, and was removed the morning of July 30, 2015, the day the July/August 2015 field work as initiated. Additional sampling was conducted in September 2015 to collect sufficient data to define the lateral and vertical extent of PCE in soil and soil gas, and to assess if PCE impacts extended to groundwater, with the goal of rapidly transitioning into an interim soil source area removal to allow for construction of Building K to commence. Construction relating to Building K has been temporarily suspended to allow for the recent remedial investigation activities to be completed, and to allow for targeted soil removal to be performed as an interim source removal effort while the limited time opportunity presents itself.

3.0 ADDITIONAL INVESTIGATION

A total of 14 direct push Geoprobe soil borings, labeled DC-SB-1 through DC-SB-14, were completed to 5 feet in depth, with eight of the locations converted into vapor monitoring points (VMPs), labeled DC-VMP-1 through DC-VMP-8. A total of 11 hollow-stem auger borings, labeled DC-SB-15 through DC-SB-21 and DC-SB-23 through DC-SB-25, were completed to between 20 and 25 feet in depth, with the exception of DC-SB-19, which encountered bedrock at 4 feet below grade and was terminated at 5 feet in depth. Dual completion VMPs were installed in ten of the auger borings, labeled DC-VMP-9 through DC-VMP-12, DC-VMP-14, DC-VMP-15, and DC-VMP-17 through DC-VMP-20. A single completion VMP was installed at shallow bedrock boring DC-SB-19, and labeled DC-VMP-13. Twelve auger borings were originally planned, but utility conflicts prevented completion of boring DC-SB-22/DC-VMP-16.

The boring locations are shown on Figure 4 and Figure 5. Figure 4 is based on a pre-demolition aerial base map and Figure 5 is based on a more recent post-demolition drone aerial photograph taken on August 31, 2015.

3.1 Dates of Work

July 30, 2015	Drilled borings DC-SB-1 through DC-SB-8 and installed VMPs DC-VMP-1 through DC-VMP-8.
August 4, 2015	Sampled and abandoned DC-VMP-1 through DC-VMP-8.

September 8-10, 2015	Drilled borings DC-SB-15 through DC-SB-21 and DC-SB-23 through DC-SB-25, and installed DC-VMP-9 through DC-VMP-15 and DC-VMP-17 through DC-VMP-20.
September 15, 2015	Sampled DC-VMP-9 through DC-VMP-15 and DC-VMP-17 through DC-VMP-20.
October 6, 2015	Abandoned DC-VMP-9 through DC-VMP-15 and DC-VMP-17 through DC-VMP-20.

3.2 Soil Boring Permits

The soil borings and VMPs were permitted through the Alameda County Public Works Agency (ACPWA). The permits, three in total, are included in Appendix B.

3.3 Drilling Method

Soil borings DC-SB-1 through DC-SB-8 were completed using a direct push Geoprobe 7720DH track rig using dual tube 5-foot core sampling system (Vannucci Technologies). Soil borings DC-SB-15 through DC-SB-21 and DC-SB-23 through DC-SB-25 were completed using a Rhino Limited Access Rig (LAR) using 5-inch outside diameter hollow stem augers (Gregg Drilling).

3.4 Soil Sampling Method

GeoProbe soil samples were collected using a 60-inch dual tube core barrel fitted with new 1.125-inch diameter acetate sample sleeves. Soil cores were collected continuously in 5-foot intervals. The hollow-stem auger borings were continuously cored using 1.5-inch diameter x 18-inch long and 24-inch long split spoon samplers lined with new brass tubes.

Soil was field-screened using an organic vapor monitor (MiniRAE 3000), generally every 5-feet in depth. The 1-foot and 5-foot depth intervals from the shallow Geoprobe borings were selected for laboratory analysis, whereas soil sample depths from the deeper auger borings were selected based on observed breaks in lithology. Soil boring logs are provided in Appendix C. All soil samples were sealed with Teflon-lined plastic caps, labeled, and placed on ice pending laboratory analyses under chain-of-custody protocols.

No elevated field instrument readings or other indications of potential soil or groundwater impact were noted at the boring locations.

3.5 Lithology

The overall redevelopment site is located in a former rock quarry (Blake & Bilger Quarry; previously Oakland Paving Co.) that operated from prior to 1939 up until the 1950s. The quarry operation also extended to the southeast of this site, in the area of the existing

pond. According to on-line sources discussing the former quarry, the bedrock that was quarried, and which is visible along the cliff walls on the north and east perimeter of the Property, is quartz diorite of the Franciscan Formation; other sources describe the rock as metamorphosed sandstone. Following the end of quarry operations, the quarry pit beneath the Rockridge Shopping center was partially backfilled/leveled to facilitate construction of shopping center in the early 1960s. The fill material used appears to have been uncontrolled backfill (unknown source), based on Tetra Tech's many soil borings completed at the site to date.

Similar to previous Tetra Tech subsurface investigations, debris consisting metal, plastic, glass and brick, and decaying organic material consisting of lumber and trees, was encountered beneath a 6- to 11-foot thick layer of dense, silty sandy gravel, with cobbles and boulders (cap fill). The debris material is generally entrained in layers of finer soil material (silts, clays) beneath the cap fill, extending to 20 to 25 feet in depth (deepest explored) and exhibits a putrid odor, typical of anaerobic (reducing) conditions. Some fine to coarse carbonate gravel material is present at depth (based on reaction to HCI). Carbonate rock is also present in the cap fill materials. Soil boring logs are presented in Appendix C.

3.6 Depth to Groundwater

First water was observed between 16 and 24 feet in depth in the deeper auger soil borings. Depth to static water ranged from 11.6 feet to 15.7 feet below grade (open hole – augers out). Based on Tetra Tech's prior review of historical aerial photography of the quarry, water within the quarry limits is expected to be localized, bound by the topography of the former quarry pit, and not contiguous with the true water table in the area.

3.7 Groundwater Sampling Method

Groundwater was not encountered in the shallow 5-foot Geoprobe borings (DC-SB-1 through DC-SB-14). Groundwater was encountered in the deeper hollow stem auger borings completed, except DC-SB-19, where shallow bedrock was encountered at 4 feet in depth. Groundwater samples were collected using new polyethylene small diameter disposable bailers inserted through new temporary PVC blank pipe and well screen inserted to total depth through the augers. The augers were then retracted approximately 5-feet to expose the screen. This groundwater sampling method prevented soil material from potentially sloughing off from above and entering the water sample. Approximately 0.25-liters of water was initially purged from each soil boring to reduce sediment content before collecting the water samples. Steam cleaned augers were used to complete each soil boring.

Due to the carbonate content in the water, the hydrochloric acid (HCl) preservative in the laboratory-supplied VOA bottles reacted strongly to most of the water samples (vigorous fizzing). As such, much of the preservative had to be discarded (leaving only streaks of

HCl in the VOA) prior to filling each VOA bottle in order to collect a sample without entrained air bubbles, and that had not been aerated by the reaction. Most of the water samples exhibited a decaying organic odor, with a reduced sulfur odor noticeable upon reaction with the HCl preservative (Note: sulfur has routinely been reported as matrix interference during laboratory analyses of construction soil generated during the site redevelopment).

3.8 VMP Installation

Stainless steel mesh screens measuring $\frac{1}{2}$ " OD x 3" long were installed from 4.75-5' bgs (shallow VMPs), and at varying depths for the deeper VMPs (based on depth to static water). The screens were compression fit to stainless steel rigid tubing ($\frac{1}{4}$ " O.D. x 0.17" ID), extending to just below ground surface. The tip of each mesh screen was also fitted with an expendable anchor point, which helped to center the VMP in the hole during construction. In borings where deeper VMPs were installed, the boring was first back-grouted with bentonite hole-plug, 1- to 2-feet above static water level, where the deeper VMP was constructed similar to the shallow VMP. A new compression fit brass ball valve/hose barb assembly was fitted to each VMP to facilitate later sampling. The VMP construction details are shown on the boring logs provided in Appendix C.

3.9 VMP Sampling

Soil vapor samples were collected from each VMP a minimum of 48-hours after installation, according to the sampling methodology described in Appendix D. No loss in vacuum was detected during the shut-in test at each VMP, indicating all surface connections were air-tight. Water was present in DC-VMP-1-5', DC-VMP-10-13' and DC-VMP-12-14' at the time of sampling; therefore, soil vapor samples were not collected from those VMPs. The source of the water at VMP-1 was likely a leaking water valve box in the immediate vicinity, disturbed during recent building demolition. The water present in the two deeper VMPs appears to have been groundwater.

The shallow GeoProbe VMPs (DC-VMP-1 through DC-VMP-8) were abandoned immediately after sampling by twisting the VMP assembly until the threaded anchor point detached, and pulling the VMP out of the ground. The bentonite gel self-sealed the tubing void, and the surface was capped with additional hydrated granular bentonite. For the dual-completion VMPs installed in the deeper auger borings, those were over drilled to the depth of the deeper VMP, both VMP tubing strings were removed, and the borings tremie-grouted with neat cement to grade. An ACPWA inspector provided oversight during borehole abandonments during the course of the field work.

3.10 Soil Cuttings, Decon/Purge Water

Soil cuttings (approximately 2 cubic yards) generated from drilling program were placed in a single pile on visqueen and covered. The equipment decon water from the Geoprobe drilling program was used to mix the grout used to abandon the shallow Geoprobe borings that were not converted into VMPs. The equipment decon water from the auger drilling program was placed on the soil cuttings pile and allowed to absorb. A sample of the soil cuttings stockpile (DC-SOILPILE-1) was collected for waste profiling purposes at the end of the field investigation work.

3.11 Laboratory Analyses

- Soil samples (54 total) were submitted to California Laboratory Services (CLS) of Ranch Cordova, California for analysis of volatile organic compounds (VOC) using EPA Method 8260B. The samples were analyzed on a 3-day turn around time.
- Groundwater Samples (10 total) were submitted to CLS for analysis of volatile VOCs using EPA Method 8260B. The samples were analyzed on a 3-day turnaround time.
- Soil vapor samples (26 samples total) were submitted to Eurofins Air Toxics of Folsom, California for laboratory analysis of VOCs using EPA Method TO-15, and for helium (leak check) using the Modified ASTMD-1946 method. The samples were analyzed on a 3-day turnaround time.
- The one soil stockpile waste profile sample (DC-SOILPILE-1) was submitted to CLS for analysis of total petroleum hydrocarbons (TPH) in the diesel and motor oil ranges (TPH-d and TPH-mo) using EPA Method 8015M, TPH-gasoline/VOCs using EPA Method 8260B, and LUFT 5 metals (cadmium, chromium, nickel, lead and zinc) using EPA Method 6010. The sample was analyzed on a 5-day turnaround time.

3.12 Results and Discussion

Copies of the laboratory analytical data sheets and chain-of-custody forms are presented in Appendix E (soil, groundwater, soil vapor, and waste profiling). Tabulated laboratory analytical results are presented in Table 1 (soil), Table 2 (soil vapor) and Table 3 (groundwater), and are also presented graphically on Figure 6. Figure 7 also presents all of the original 2001 soil boring locations, in addition to the tabulated soil and groundwater data from that sampling event.

As shown in Table 1 and on Figure 6, low concentrations of PCE and associated breakdown products were detected in the upper 5-feet of soil, primarily in the immediate vicinity of the former dry cleaner and adjacent former tenant space to the north, with elevated PCE concentrations detected in one shallow boring (DC-SB-10) directly behind the former dry cleaner tenant space. PCE was detected at 2,700 micrograms per kilogram (μ g/Kg) and 1,100 μ g/Kg in the 1-foot and 5-foot samples, respectively, at

DC-SB-10. These concentrations exceed the Commercial Environmental Screening Level (ESL) value for PCE of 700 μ g/Kg.

PCE and associated breakdown products were not detected in the deeper soil samples (ranging between 6- and 19-feet in depth) in the immediate vicinity of the former dry cleaner, or in the step-out soil borings, with one exception. The one exception being a low concentration (20 μ g/Kg) of trichloroethene (TCE) detected at step-out boring DC-SB-23-7.5'. TCE was not detected in the deeper soil sample (14.5') at DC-SB-23. The Commercial ESL value for TCE in soil is 460 μ g/Kg.

As previously indicated, soil boring DC-SB-22 could not be completed due to utility conflicts, which was intended to assess deeper soil at boring DC-SB-10. Based on groundwater data in the area (discussed below), this data gap is not considered significant.

Acetone was detected in 11 samples from deeper soil at five of the additional soil boring locations, at concentrations ranging from 110 to 220 μ g/Kg, with one detection of 650 μ g/Kg. The 650 μ g/Kg detection (DC-SB-24-9.5') exceeds the Commercial ESL value for acetone in soil of 500 μ g/Kg.

As shown in Table 2 and on Figure 6, elevated concentrations of PCE and associated breakdown products were primarily detected in shallow soil vapor (upper 5-feet) in the immediate vicinity of the former dry cleaner and immediately adjacent tenant spaces to the north and south. The highest PCE soil vapor concentration was detected at 5-feet in depth at DC-VMP-6 (19,000,000 micrograms per cubic meter - μ g/m3), which corresponds to the location (DC-SB-10) where the highest concentrations of PCE were detected in soil in the upper 5-feet. The deeper soil vapor samples and step-out locations generally contained low to non-detect concentrations of PCE and breakdown products, two exceptions – step-out locations DC-VMP-14 and DC-VMP-15. Vinyl chloride was detected in soil vapor at 210 μ g/m3 and 500 μ g/m3 in the 5-foot and 14-foot vapor samples, respectively, at DC-VMP-14, and at 850 μ g/m3 in the 5-foot vapor sample at DC-VMP-15. The Commercial ESL value for vinyl chloride in soil vapor is 160 μ g/m3.

As shown in Table 2, helium leak-check concentrations in each vapor sample were acceptable (< 5%), with one possible exception; sample DC-VMP-3, where helium was detected at 5.4%, indicating a possible short circuit between the sample screen and ground surface. This potential leak is considered insignificant, given the detected concentrations are similar in magnitude to other shallow vapor points located the same distance from the apparent source area (DC-SB-10/DC-VMP-6).

As shown in Table 3 and on Figure 6, groundwater was non-detect for PCE and associated breakdown products in the 10 groundwater samples collected and analyzed from across the former dry cleaner area. Only Freon 12 was detected at concentrations

ranging from 17 to 75 micrograms per liter (μ g/L), at seven locations. Freon 12 does not have a Commercial ESL value for groundwater, or a California maximum contaminant level (MCL). Freon 12 was also detected in groundwater during the 2001 investigation work at boring SB-2, directly in front of the former dry cleaner location and adjacent to recent boring DC-SB-25. Groundwater at boring DC-SB-25 did not contain Freon 12 during this sampling event.

The soil waste profile sample (DC-SOILPILE-1) contained only a trace concentration of motor oil (1.2 milligrams per kilogram, mg/kg). Metals were also detected, but at relatively low concentrations. The sample did not contain VOCs.

Based on review of the data, the source of PCE appears to be from a minor surface release directly behind the former dry cleaner tenant space, limited to the upper 5 feet of soil. The release did not impact groundwater. The lateral distribution of PCE and associated breakdown products in soil vapor are likely attributed to the coarse lithology in the upper 11 feet of soil (gravel, cobble and boulders), numerous utilities that transect the area which possibly are creating preferential pathways for vapor migration, and the thick asphalt cap (8-10 inches thick) that was present across the area behind Building 5.

4.0 PROPOSED INTERIM REMEDIAL ACTION PLAN

Tetra Tech is proposing a soil source area removal as part of an interim remedial action plan (IRAP). The IRAP is presented in response to recent discussions with Mark Detterman of the Alameda County Department of Environmental Health. Tetra Tech had discussed quickly proceeding with targeted source removal in the area of the former dry cleaner lease space, and Mr. Detterman requested formalizing the approach in the form of an IRAP. The IRAP is included in this report to summarize the planned soil excavation activities in an effort to secure regulatory approval to quickly proceed with work in advance of pending construction activities in the area.

The IRAP is proposed for the vicinity of the former dry cleaner in order to remove the elevated concentrations of PCE detected in shallow soil (upper 5 feet) at DC-SB-10, in addition to removing soil containing elevated concentrations of PCE/breakdown products in shallow soil vapor (upper 5 feet) under the footprint of future Building K. As a conservative measure, soil from along a 120-foot section of the sanitary sewer downstream from the former dry cleaner is also proposed for excavation to mitigate elevated concentrations of PCE previously detected in soil vapor, as well as low concentrations of PCE in soil. Elevated concentrations are identified as those concentrations that exceed Commercial ESL values. The proposed soil excavation areas are presented on Figure 6.

Soil excavation is proposed since construction activities will currently allow for access to those areas, and access will not be available following construction. The opportunity to proceed with an IRAP excavation is limited in time and must be carefully coordinated with

the on-going construction activities. The window of opportunity is closing in the coming weeks. The general contractor already has the necessary City of Oakland permit to perform trenching and excavation, which has been on-going since May 2015 as part of site redevelopment.

Surrounding property owners/occupants are currently apprised of the on-going redevelopment work and nuisance conditions brought about by construction work in general; however, surrounding land use is briefly discussed below, along with the potential for fugitive dust/VOC emissions, followed by the proposed soil removal IRAP.

4.1 Surrounding Land Use

California College of the Arts is located northwest of the proposed soil excavation work area, above the bluff, in addition to residential land use (apartment buildings) north of the work area, above the bluff. East of the proposed excavation area on-site is nonresidential, currently undergoing site redevelopment work, with a large pond located directly east of the redevelopment area. Land use farther off-site to the northeast and east is a country club and gold course, respectively, with a cemetery farther east.

Prevailing winds are expected to be mostly west to east, toward the open space (construction area, pond, gold course), based on two references reviewed (1950-1970 study at Lake Meritt, and BAAQMD data). A copy of the two references are presented in Appendix F. Wind rose diagrams in summer and fall from the Lake Meritt reference are shown on Pages 5 and 9 of that reference, and indicate that the prevailing wind direction is from west to east. Pages F-11 and F-12 in the BAAQMD reference present data from Oakland, also showing that the prevailing wind direction is primarily west to east.

4.1.1 Potential Fugitive Dust Emissions

Since redevelopment work was initiated in May 2015, routine excavation and trenching has been on-going. Excavated soils have been moist to very moist, generating no dust, and all constructions soil stockpiles are covered by plastic at the end of each work day. Surface dust, created by routine truck and equipment traffic moving about the unimproved surfaces, is controlled by water spray on a daily basis by Swinerton as part of normal site management procedures. The same soil and stockpile handling procedures will be followed for this proposed soil excavation.

The potential for fugitive dust emissions to impact surrounding land use during excavation is considered very low.

4.1.2 Potential Fugitive VOC Emissions

Despite elevated soil vapor concentrations in the shallow 5-foot VMPs, field readings (MiniRAE 3000) have not registered above 1 or 2 ppmv during SMP monitoring of sub-slab soil and deeper soil (3 feet in depth) from Building 5 footing removals. Field

readings were also below 2 ppmv in the upper 10 feet of soil during field screening of the recent Geoprobe and hollow-stem auger borings (24 soil borings in total).

The potential for fugitive VOC emissions to impact surrounding land use during excavation is considered very low. During the excavation activities a Tetra Tech staff member will periodically collect perimeter work area ambient air readings using a MiniRAE 3000 field PID instrument, or equivalent field screening instrument. Perimeter work area ambient air readings will be collected north, east, south and west of the excavation area, every half hour during active excavation work. Should ambient air readings exceed a total VOC concentration of 10 ppmv, water spray will be applied to the excavation area to reduce the ambient VOC concentrations to below 10 ppmv.

4.2 Proposed Soil Removal IRAP

As shown on Figure 6, Tetra Tech is proposing to excavate soil from two contiguous areas in the vicinity of the former Rockridge Dry Cleaner – a large rectangular excavation area beneath an area of the former dry cleaner footprint, and along a section of sanitary sewer line directly behind the former dry cleaner tenant space. Tetra Tech will direct the soil excavation work, which will be performed by Shoreline Environmental Resources of Benicia, California; a hazardous waste excavation and remediation contractor. Most of the proposed work area is located behind secured chain-link construction fencing, with a portion of the sewer excavation extending into an unsecured area by the former Safeway loading dock.

4.2.1 Large Excavation Area

The proposed large excavation area measures roughly 45' long x 35' wide x 6' deep (300 cubic yards, in-place), and includes boring DC-SB-10, where elevated PCE concentrations were detected in the upper 5-feet of soil. An approximate 10' x 10' area centered on borings DC-SB-10 will be excavated to 8-feet deep, as this is the suspected soil source area. The excavation will not extend greater than 8-feet in depth, as groundwater is expected to enter the excavation at near 10-feet in depth, and groundwater data indicate PCE is not present in groundwater in the area.

The proposed excavation footprint will capture the elevated PCE/breakdown products in soil vapor beneath the future Building K slab. Two areas outside the future Building K slab, where elevated vinyl chloride concentrations were detected in soil vapor (DC-VMP-13 and -14) are not proposed for excavation as these two areas are distant from Building K and the source area, and soil did not contain PCE or breakdown products.

As the existing 6' x 15' electrical transformer pad (immediately adjacent to DC-SB-10) will remain in service until approximately mid-November 2015, this area of soil (50 cubic yards) will not be excavated at this time. Confirmation soil sampling (discussed below) will determine if this area of soil will require excavation and disposal after the transformer has been decommissioned and removed.

The excavation area around the electrical transformer pad will require hand digging to maintain safe clearance of the buried electrical lines, in addition to the many other subsurface utilities in the area. If hand digging is required at depths greater than 4-feet, then appropriate excavation safety measure will be implemented (1:1 sidewall sloping, or temporary trench wall jacks).

The excavation is expected to require up to 5 days to complete.

4.2.2 Sewer Line Trench Excavation

The proposed trench excavation area measures roughly 120' long x 3' wide x 8' deep (106 cubic yards, in-place), and includes removing the abandoned approximate 8-inch diameter sanitary sewer pipe (vitrified clay pipe – VCP). The bottom of the 8-inch VCP is located at 7.5-feet below grade.

Sections of the trench excavation may require hand digging to avoid damaging utilities that cross the trench. If hand digging is required at depths greater than 4-feet, then appropriate excavation safety measures will be implemented (1:1 sidewall sloping, or temporary trench wall jacks).

The excavation is expected to require up to 3 days to complete.

4.2.3 Proposed Excavation Confirmation Soil Sampling

Tetra Tech proposes collecting 10 excavation confirmation soil samples from the large excavation -1 sample from each sidewall center, at a depth of approximately 3 feet (4 samples); 4 samples across the excavation base (with one sample at the base of the 8 feet deep portion of the excavation; and 2 sidewall samples around the island of soil that will remain beneath the 6' x 15' transformer pad. The samples will be collected by hand, placed in 9-ounce glass jars, labeled under chain of custody protocols, and stored on ice pending laboratory analysis. Two sides of the excavation will be sloped 1:1 for safety while collecting samples, and for equipment access at the time of backfilling.

Up to 6 confirmation soil samples will be collected along the base of the trench excavation; one per every 20 linear feet of trench. The samples will be collected by hand from the excavator bucket, placed in 9-ounce glass jars, labeled under chain of custody protocols, and stored on ice pending laboratory analysis. Tetra Tech personnel will not enter the 8-foot deep trench.

The confirmation soil samples will be analyzed for VOCs, including PCE and breakdown products, using EPA Method 8260B. The samples will be analyzed on a 2-day turnaround time by CLS of Rancho Cordova, California.

4.2.4 Soil Stockpiling and Security

The approximate 400 cubic yards (in-place) of excavated soil will be temporarily staged on-site in an area designated by Swinerton Builders; likely on the east side of the overall redevelopment area, away from the IRAP excavation area and closest to open space east of the redevelopment area (pond and golf course). The soil will be transported from the excavation area to the stockpile area by a small dump truck. The stockpile will be placed on an asphalt surface and covered with 6-mil visqueen pending waste profiling and landfill acceptance. The visqueen will be secured with rope and sandbags as needed.

4.2.5 Dust Control

While dust is not expected to be generated during excavation work, water is available onsite to suppress any dust that may be generated. The primary source of dust is expected to be from the dump truck moving the soil to the stockpile staging area over unimproved ground. Any dust from this activity will be controlled by routine water applications by Swinerton's subcontractors during their normal work.

4.3 Excavation Security

Pending excavation backfill, after receipt of exception confirmation sample data, the trench excavation will be secured with steel trench plate. The larger excavation area, located behind a secured area of the Swinerton redevelopment site already, will be further secured with orange construction fencing until backfilled.

4.4 Waste Profiling and Disposal

Tetra Tech will collect three discrete soil samples from the stockpiled soil (approximately 500 cubic yards, ex-situ) for waste profiling purposes. The samples will be collected by hand, placed in 9-ounce glass jars, labeled under chain of custody protocols, and stored on ice pending laboratory analysis.

The profile soil samples will be analyzed for VOCs and total petroleum hydrocarbons in the gasoline range (TPH-g) using EPA Method 8260B, TPH-diesel and TPH-motor oil using EPA Method 8015M, and LUFT 5 Metals using EPA Method 6010. The samples will be analyzed on a 2-day turnaround time by CLS of Rancho Cordova, California.

The soil, based on the existing in-situ data, will be disposed of as a Class II waste. Once accepted, the soil will be loaded and transported off-site for disposal at Potrero Hills Landfill in Suisun City, California. The soil stockpile from the recent soil boring investigation work will be included in the off-haul. Off-site disposal is anticipated to occur approximately 7 to 10 days following completion of soil excavation.

4.5 Backfill and Compaction

Swinerton Builders will be responsible for excavation backfill and compaction, in order to meet specifications needed for construction of Building K.

5.0 CLOSURE

Tetra Tech is prepared to begin implementation of the IRAP as soon as possible.

TABLES

TABLE 1Analytical Results Summary - SoilFormer Rockridge Cleaners Area5100 Broadway (Former 5114 tenant space)Oakland, California

						١	/OCs - EPA 826	0B			
							(µg/Kg)				
Sample		Depth	• .								
Location	Date Sampled	(feet, bgs)	Acetone	Freon 12	n-Butylbenzene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC
		Sh			cinty of Former Dry		-				
DC-SB-1	7/30/2015	1	< 100	< 10	< 5.0	6.0	< 5.0	5.0	< 5.0	< 5.0	< 10
	7/30/2015	5	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
DC-SB-2	7/30/2015	1	< 100	< 10	< 5.0	36	21	25	< 5.0	< 5.0	< 10
	7/30/2015	5	< 100	< 10	< 5.0	< 5.0	36	27	< 5.0	< 5.0	< 10
DC-SB-3	7/30/2015	1	< 100	< 10	< 5.0	11	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	7/30/2015	5	< 100	< 10	< 5.0	12	12	26	< 5.0	< 5.0	< 10
DC-SB-4	7/30/2015	1	< 100	< 10	< 5.0	10	15	16	< 5.0	< 5.0	< 10
	7/30/2015	5	< 100	< 10	< 5.0	6.9	19	23	< 5.0	< 5.0	< 10
DC-SB-5	7/30/2015	1	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	7/30/2015	5	< 100	< 10	< 5.0	19	9.2	23	< 5.0	< 5.0	< 10
DC-SB-6	7/30/2015	1	< 100	< 10	< 5.0	21	10	8.0	< 5.0	< 5.0	< 10
	7/30/2015	5	< 100	< 10	< 5.0	12	17	23	< 5.0	< 5.0	< 10
DC-SB-7	7/30/2015	1	< 100	< 10	< 5.0	6.8	< 5.0	5.2	< 5.0	< 5.0	< 10
	7/30/2015	5	< 100	< 10	< 5.0	7.5	< 5.0	6.0	< 5.0	< 5.0	< 10
DC-SB-8	7/30/2015	1	< 100	< 10	< 5.0	7.8	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	7/30/2015	5	< 100	< 10	< 5.0	8.1	12	6.3	< 5.0	< 5.0	< 10
DC-SB-9	7/30/2015	1	< 100	< 10	< 5.0	54	6.4	< 5.0	< 5.0	< 5.0	< 10
	7/30/2015	5	< 100	< 10	< 5.0	39	8.7	6.0	< 5.0	< 5.0	< 10
DC-SB-10	7/30/2015	1	< 100	< 10	< 5.0	2,700	5.6	< 5.0	< 5.0	< 5.0	< 10
	7/30/2015	5	< 100	< 10	< 5.0	1,100	12	5.6	< 5.0	< 5.0	< 10
DC-SB-11	7/30/2015	1	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	7/30/2015	5	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
DC-SB-12	7/30/2015	1	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	7/30/2015	5	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
DC-SB-13'	7/30/2015	1	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	7/30/2015	5	< 100	< 10	< 5.0	< 5.0	8.6	8.5	< 5.0	< 5.0	< 10
DC-SB-14	7/30/2015	1	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	7/30/2015	5	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
					er Dry Cleaner and						
DC-SB-15	9/8/2015	12	120	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	9/8/2015	17	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
DC-SB-16	9/8/2015	8	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	9/8/2015	13	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	9/8/2015	15	150	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
DC-SB-17	9/8/2015	12	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	9/8/2015	12	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10

TABLE 1Analytical Results Summary - SoilFormer Rockridge Cleaners Area5100 Broadway (Former 5114 tenant space)Oakland, California

						V	OCs - EPA 8260)B			
Sampla		Donth					(µg/Kg)				
Sample Location	Date Sampled	Depth (feet, bgs)	Acetone	Freon 12	n-Butylbenzene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC
DC-SB-18	9/8/2015	11.5	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	9/8/2015	17	130	< 10	5.3	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
DC-SB-19	9/9/2015				NO SOIL SAMPL	ES - ENCOUN	TERED BEDROC	CK AT 4 feet, bgs			
DC-SB-20	9/9/2015	6	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	9/9/2015	10	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	9/9/2015	17	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
DC-SB-21	9/9/2015	7	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	9/9/2015	13.5	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	9/9/2015	17	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
DC-SB-22	9/9/2015				NOT COMPLETE	D - WATER LIN	IE/NEARBY UTIL	LITY CONFLICTS			
DC-SB-23	9/10/2015	7.5	< 100	< 10	< 5.0	< 5.0	20	< 5.0	< 5.0	< 5.0	< 10
	9/10/2015	14.5	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
DC-SB-24	9/10/2015	9.5	650	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	9/10/2015	13.5	170	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	9/10/2015	17	200	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
DC-SB-25	9/10/2015	9	220	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	9/10/2015	11.5	130	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	9/10/2015	16.5	220	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	9/10/2015	19	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
DC-SB-26	9/10/2015	9.5	140	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
	9/10/2015	14.5	110	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
ESL - (Commercial (<3m /	>3m)	500 / 500	NV	NV	700 / 700	460 / 460	190 / 190	670 / 670	1,000 / 1,000	85 / 85
C	HHSL - Commercia	al	NV	NV	NV	NV	NV	NV	NV	NV	NV

Notes:

Soil borings DC-SB-1 through DC-SB-14 compeleted on bare ground, shortly after building slab and asphalt out back were removed (July 27-29, 2015). Former building pad was 4-5" thick concrete, and asphalt out back was 8-10-inches thick. ESL Environmental Screening Level, Regional Water Quality Control Board, Table A-2 (< 3m) and C-2 (> 3m), Commercial Land Use, Interim Final, December 2013.

CHHSL California Human Health Screening Level, Department of Toxic Substances Control (DTSC) / Office of Environmental Health Hazard Assessment (OEHHA), soil screening numbers for Commercial land use, Table 1, September 2010.

μg/Kg micrograms per kilogram or parts per billion (ppb).

NV No Value

Exceeds ESL Value

TABLE 2

Analytical Results Summary - Soil Vapor Former Rockridge Cleaners Area 5100 Broadway (Former 5114 tenant space) Oakland, California

						VC	DCs - EPA TO-1	15			_
				T	1		(µg/m3)		-		T
Sample Location	Date	Depth (feet, bgs)	Acetone	Freon 12	Benzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichlorethene	1,1-Dichloroethene	
			Shallow Sol	il Vapor - Imr	nediate Vicin	nty of Former D	Pry Cleaner and	Adjacent For	mer Tenant S	baces	
DC-VMP-1	8/4/2015	4.75 - 5					No Sample (1)				
DC-VMP-2	8/4/2015	4.75 - 5	< 520	600	< 180	85,000	130,000	120,000	2,300	680	
DC-VMP-3	8/4/2015	4.75 - 5	< 140	79	34	11,000	4,000	4,400	< 23	< 23	
DC-VMP-4	8/4/2015	4.75 - 5	< 140	< 72	< 46	54,000	41,000	2,600	< 57	< 57	
DC-VMP-5	8/4/2015	4.75 - 5	< 130	2,000	< 44	45,000	39,000	24,000	1,400	280	
DC-VMP-6	8/4/2015	4.75 - 5	< 35,000	< 18,000	< 12,000	19,000,000	99,000	65,000	< 15,000	< 15,000	I
DC-VMP-7	8/4/2015	4.75 - 5	53	12	< 3.7	140	< 6.3	< 4.6	< 4.6	< 4.6	Γ
DC-VMP-8	8/4/2015	4.75 - 5	< 270	3,300	< 37	380	720	7,400	380	55	T
	Sha	allow and De	ep Soil Vapor	- Immediate	Vicinty of Fo	ormer Dry Clea	ner and Adjace	ent Former Ten	ant Spaces, a	and Step-Out	t I
DC-VMP-9	9/15/2015	4.75 - 5	34	< 6.2	15	< 8.5	< 6.8	< 5.0	< 5.0	< 5.0	
	9/15/2015	14.75 - 15	30	< 6.2	12	< 8.5	< 6.8	12	< 5.0	< 5.0	
DC-VMP-10	9/15/2015	4.75 - 5	< 120	< 25	< 16	100	220	1,700	110	29	
		12.75 - 13					No Sample (1)				_
DC-VMP-11	9/15/2015	4.75 - 5	630	< 120	< 78	720	1,300	4,300	250	< 96	
	9/15/2015	12.75 - 13	54	< 6.5	8.4	39	40	30	< 5.2	< 5.2	_
DC-VMP-12	9/15/2015	4.75 - 5 13.75 - 14	< 380	< 78	< 51	1,600	12,000 No Sample (1)	17,000	620	140	-
DC-VMP-13	0/15/2015	4.75 - 5	< 48	< 10.0	8.9	1,500	31	< 8.0	< 8.0	< 8.0	_
DC-VMP-14		4.75 - 5	330	< 5.8	63	17	38	<u> </u>	<u>33</u>	<u>6.9</u>	-
	9/15/2015		150	< 6.0	18	17	50	90	17	12	T
DC-VMP-15		4.75 - 5	150	< 5.8	54	680	310	1,200	100	13	-
	9/15/2015	12.75 - 13	88	< 6.0	11	9.1	7.3	18	< 4.8	< 4.8	
DC-VMP-16						Not compl	eted due to utilit	y conflicts			
DC-VMP-17			57	< 6.1	13	24	< 6.6	< 4.9	< 4.9	< 4.9	
	9/15/2015	14.75 - 15	120	< 6.1	16	10	< 6.6	7.3	< 4.9	< 4.9	

		Modified ASTM D-1946
	Vinyl Chloride	Helium (%)
		NIA
	9 100	NA < 0.11
	8,100 30	< 0.11 5.4
	< 37	< 0.12
	7,100	< 0.12
0	13,000	< 0.12
0		
	< 3.0	< 0.14
•	6,100	< 0.11
Out	Locations	
	4.8	< 0.13
	13	< 0.13
	5,300	< 0.13
	17 000	NA
	17,000 13	< 0.12 < 0.13
	12,000	< 0.12
	12,000	NA
	< 5.2	< 0.20
	210	< 0.12
	500	< 0.12
	850	< 0.12
	35	< 0.12
		NA
	< 3.2	0.39
	31	< 0.12

TABLE 2

Analytical Results Summary - Soil Vapor Former Rockridge Cleaners Area 5100 Broadway (Former 5114 tenant space) Oakland, California

VOCs - EPA TO-15 (μg/m3)												Modified ASTM D-1946
Sample Location	Date	Depth (feet, bgs)	Acetone	Freon 12	Benzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichlorethene	1,1-Dichloroethene	Vinyl Chloride	Helium (%)
DC-VMP-18	9/15/2015	4.75 - 5	50	< 6.2	15	160	250	1,100	30	< 5.0	22	1.3
	9/15/2015	12.75 - 13	< 30	< 6.2	5.8	48	56	190	5.8	< 5.0	4.1	< 0.13
DC-VMP-19	9/15/2015	4.75 - 5	40	< 5.8	10	< 7.9	< 6.3	< 4.6	< 4.6	< 4.6	< 3.0	0.90
	9/15/2015	10.75 - 11	96	< 6.1	9.7	< 8.4	< 6.6	11	< 4.9	< 4.9	21	< 0.12
DC-VMP-20	9/15/2015	4.75 - 5	59	< 6.1	16	120	8.1	< 4.9	< 4.9	< 4.9	5.6	< 0.12
	9/15/2015	9.75 - 10	< 580	< 120	< 77	< 160	< 130	< 96	< 96	< 96	< 62	< 0.12
ESL	- Commerc	ial	140,000,000	NV	420	2,100	3,000	31,000	260,000	880,000	160	NA
СНН	SL - Comme	rcial	NV	NV	280	600	1,600	120,000	240,000	NV	95	NA

Notes:

NOTE: Additional compounds detected below screening values; see laboratory data sheets.

(1) No sample due to water in probe. For VMP-1, leaking water valve boxes in immediate vicinty are suspected source of water, damaged during recent building demolition.

µg/m3 micrograms per cubic meter

ESL RWQCB Environmental Screening Level, Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion, Table E-2, Interim Final, December 2013.

CHHSL California Human Health Screening Level (CHHSL), Office of Environmental Health Hazard Assessment (OEHHA), Table 2; Soil-Gas Screening Values, September 23, 2010.

NV No Value

NA Not Applicable

Exceeds ESL Value

TABLE 3 Analytical Results Summary - Groundwater Former Rockridge Cleaners Area 5100 Broadway (Former 5114 tenant space) Oakland, California

			VOCs - EPA 8260B (µg/Kg)								
Sample Location	Date Sampled	Static Water Depth (feet, bgs)	Acetone	Freon 12	n-Butylbenzene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC
DC-SB-15-GW	9/8/2015		< 100	17	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
DC-SB-16-GW	9/8/2015		< 100	47	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
DC-SB-17-GW	9/8/2015		< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
DC-SB-18-GW	9/8/2015		< 100	21	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
DC-SB-19-GW	9/9/2015			NC	GROUNDWATER S	AMPLE - ENC	OUNTERED BE	DROCK AT 4 feet	bgs		
DC-SB-20-GW	9/9/2015		< 100	47	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
DC-SB-21-GW	9/9/2015		< 100	39	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
DC-SB-22-GW	9/9/2015				NOT COMPLETED	- WATER LIN	IE/NEARBY UTIL	ITY CONFLICTS			
DC-SB-23-GW	9/10/2015		< 100	24	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
DC-SB-24-GW	9/10/2015		< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
DC-SB-25-GW	9/10/2015		< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
DC-SB-26-GW	9/10/2015		< 100	75	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
E	SL - Commercial		Use Soil Gas	NV	NV	640	1,300	26,000	120,000	130,000	18
	MCL		6,300 (1)	1,000 (2)	260 (2)	5	5	6	10	6	0.5

ESL Environmental Screening Level, Regional Water Quality Control Board, Table E-1 (fine-coarse mix), Commercial Land Use, Interim Final, December 2013.

MCL California State Water Resouces Control Board, Maxium Contaminant Level, on-line database, 10/05/15.

μg/L micrograms per liter or parts per billion (ppb).

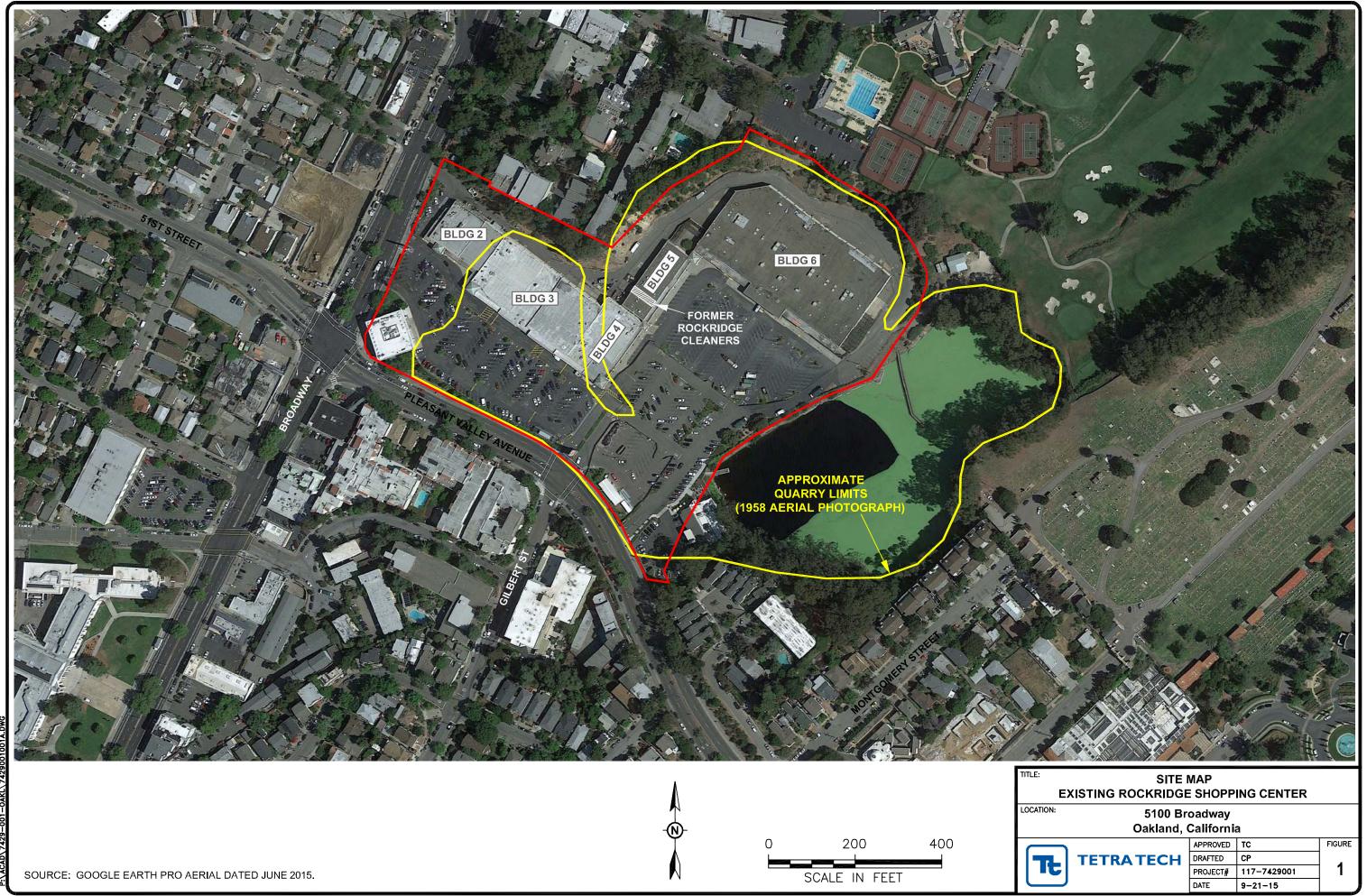
NV No Value

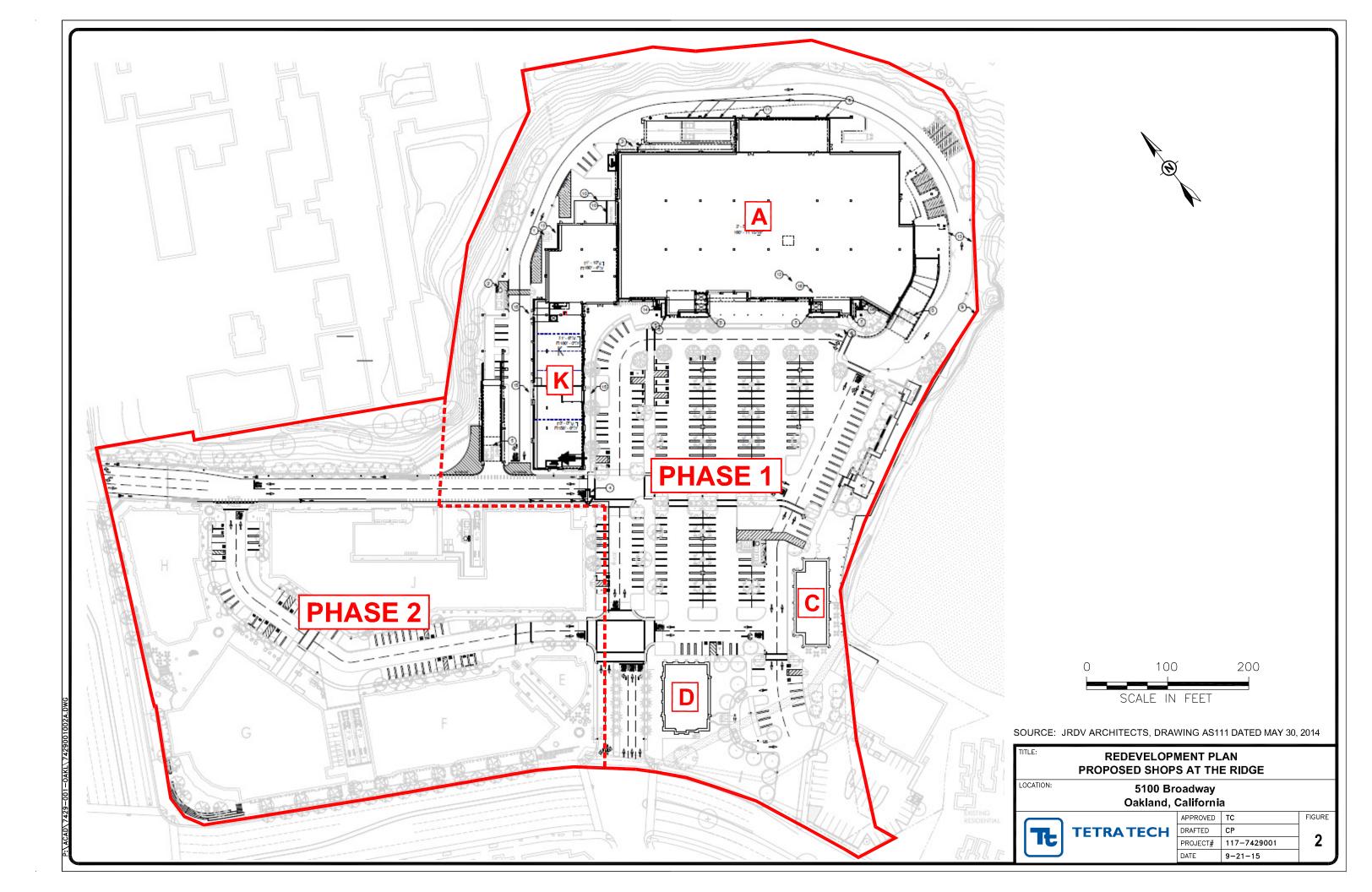
Exceeds ESL or MCL Value

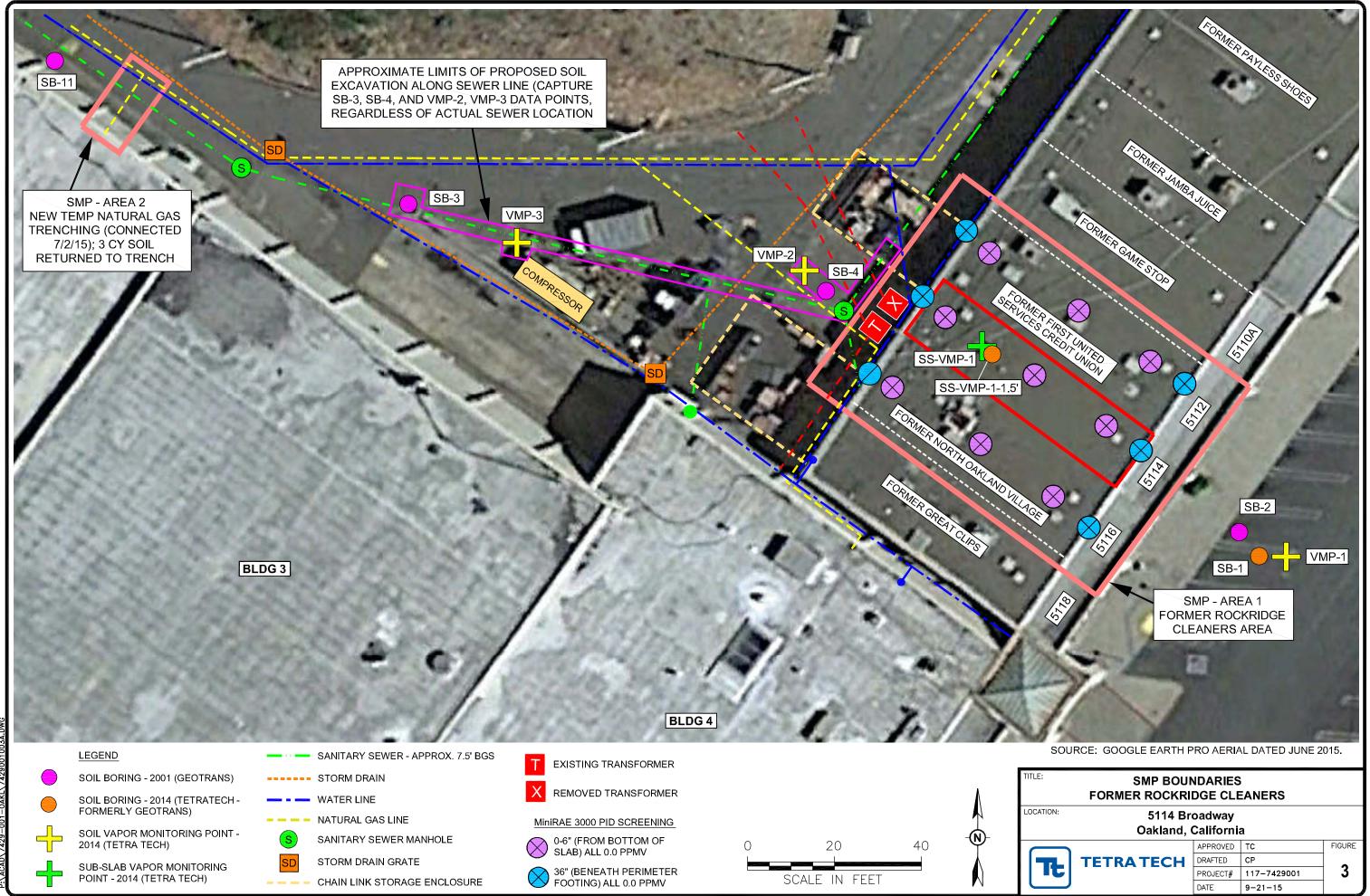
(1) No MCL value. Value represents USEPA IRIS Reference Dose as a drinking water level (Suggested No-Adverse-Response Levels for non-cancer health effects).

(2) No MCL value. Value represents California Department of Public Health Notification Level.

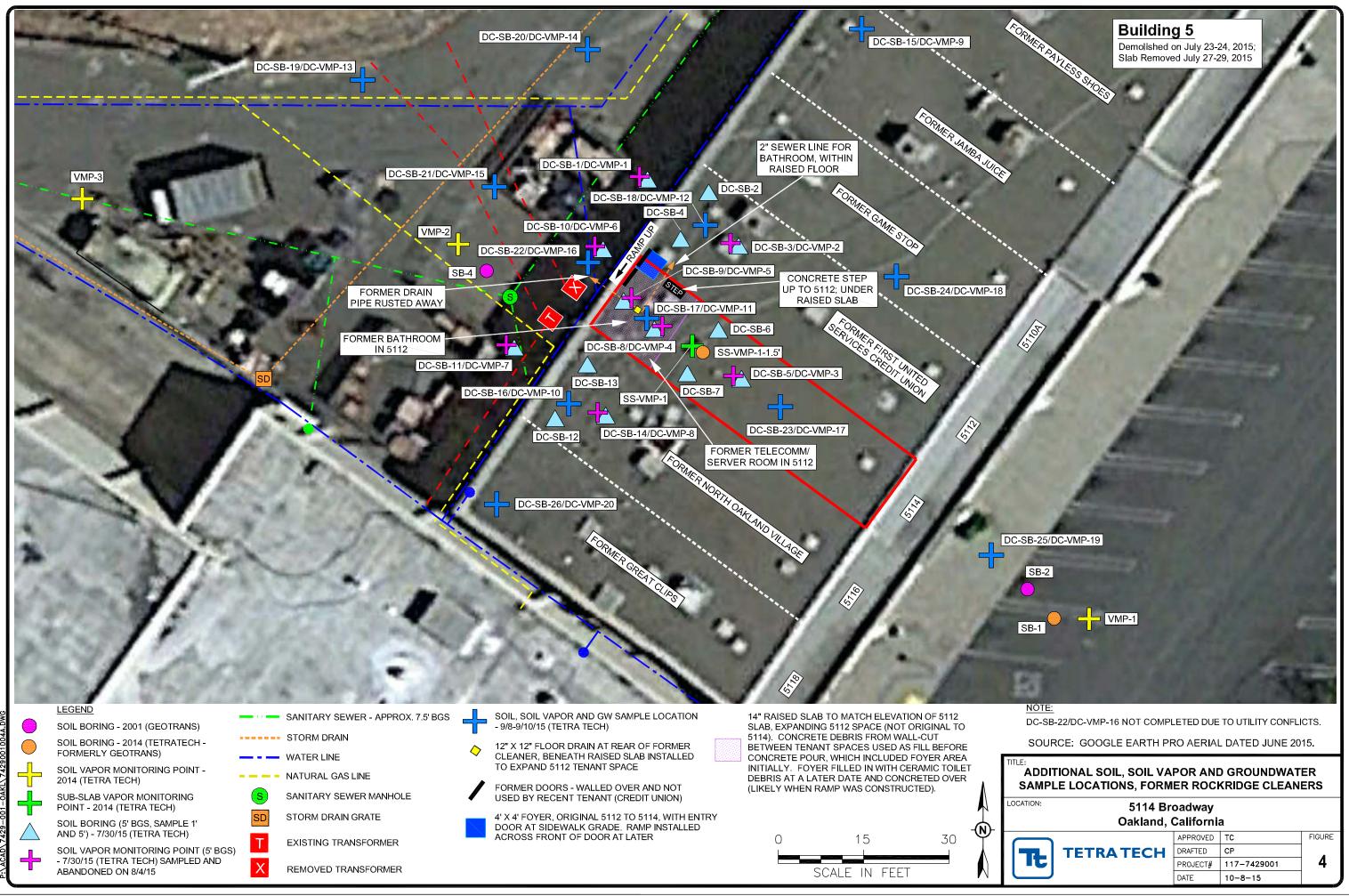
FIGURES



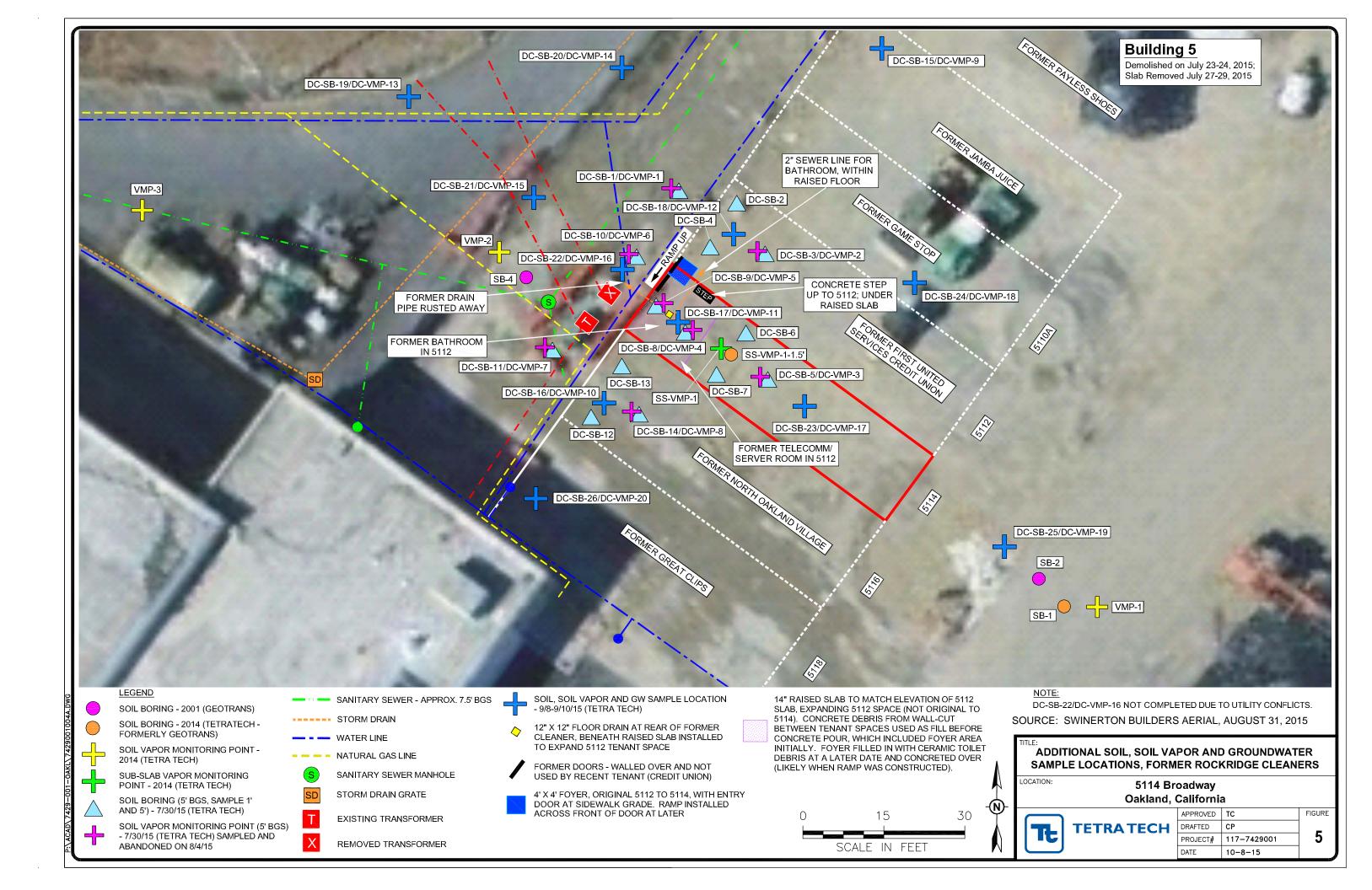




FORMER ROCKRIDGE CLEANERS								
LOCATION: 5114 Broadway								
Oakland, California								
		APPROVED	тс	FIGURE				
	TETRA TECH	DRAFTED	СР					
		PROJECT#	117-7429001	3				
		DATE	9-21-15					

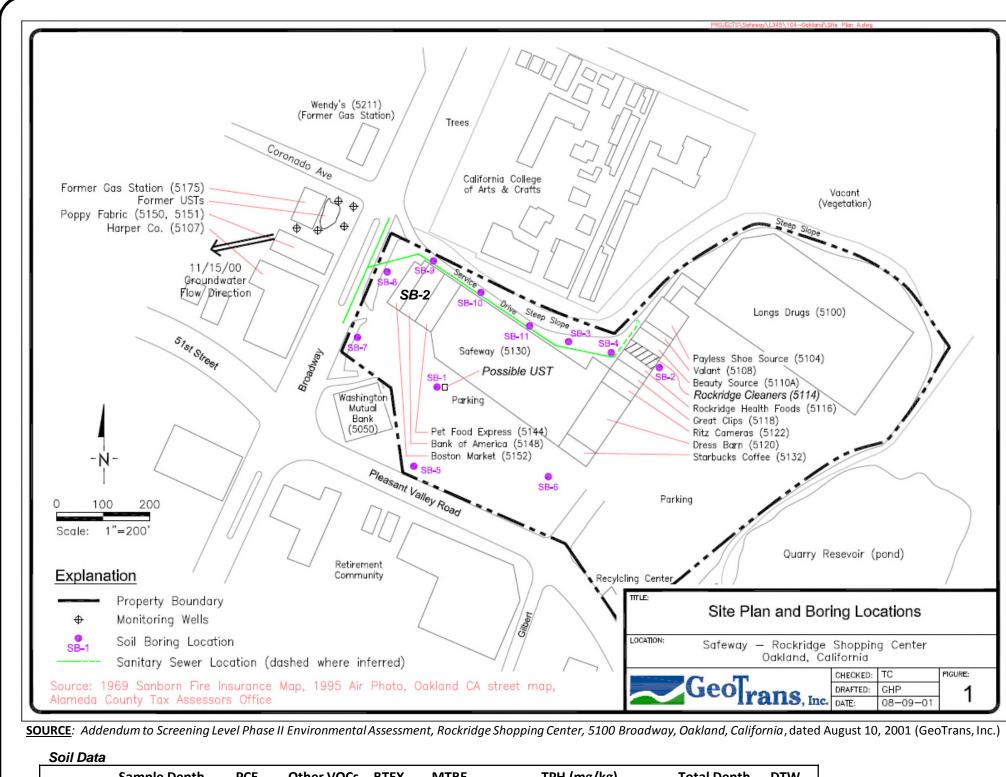


- 1	,,									
		APPROVED	тс	FIGURE						
		DRAFTED	СР							
			117-7429001	4						
		DATE	10-8-15							



DCSB-19 (µg/Rg) Cis-12. DC PC Tass 12.DC V Free (µg/Rg) Cis-12. DC PC Tass 12.DC V PC Tass 12.CC V PC PC PC
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
Image: bit in the line
VIRS DCSB-200CMMR41 DCSB-200CMMR42 DCSB-200CMMR43 DCSB-200CMMR43<
12. 1
$\frac{5' \text{ NO } \text{ IS }$
DC:SB-12 Cis-1.2- PCE Trans- TCE VC Trans- TCE VC Trans- TCE VC I.2- DC:SB-2 Cis-1.2- DC M </td
DCSB-26 Cis PC Trans- CC PC Acctore DC Minipute DC Minipute DC Minipute DC Minipute DC Minipute DC Minipute Minipute DC Minipute





Oakland)\Phase II ESA Report\Fi

\PROJECTS\Safeway\117-4704123.01 (5050-5100 B

	Sample Depth	PCE	Other VOCs	BTEX	MTBE	TPH (mg/kg)		Total Depth	DTW	
Sample ID	(ft, bgs)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	Gasoline	Diesel	Motor oil	(ft <i>,</i> bgs)	(ft, bgs)
SB-1	10	ND (<5.0)	ND	ND	ND (<5.0)	1.6	ND (<1.0)	ND (<1.0)	20	NE
SB-2	10	ND (<5.0)	ND	ND	ND (<5.0)				20	17
SB-3	4	14	ND	ND	ND (<5.0)				4.5	NE
SB-4	3.5	17	ND	ND	ND (<5.0)				4	NE
SB-5	6	ND (<5.0)	ND	ND	ND (<5.0)				10	NE
SB-9	5	ND (<5.0)	ND	ND	ND (<5.0)				9	8.8
SB-11	5	6.3	ND	ND	ND (<5.0)				_	
	10	ND (<25)	ND	ND	ND (<5.0)				23	NE
	15	ND (<25)	ND	ND	ND (<5.0)				-	



TITLE:

LOCATION:

Groundwater Data

PCE nple ID (µg/L)		Other VOCs (μg/L)	BTEX (μg/L)	MTBE (μg/L)	
5B-2	<1.0	Freon 12 – 14	B – 1.7	ND (<1.0)	
SB-9	<5.0	ND	ND	48	

Rockridge Shopping Center 5100 Broadway Oakland, California

	CHECKED:	TRC	FIGURE:		
TETRA TECH	DRAFTED:	KDH	7		
	FILE:	117-4704123.01			
	DATE:	06-06-144			

APPENDIX A Photographic Log – Building 5 Demolition and Field Work



Photographic Documentation Building Demolition and Soil Boring and Vapor Monitoring Probe Installation Former Rockridge Dry Cleaner – 5100 Broadway (5114 tenant space area) Oakland California Project No.: 117-7429001.06

Photo: 1

Description: During building demolition, it was discovered that the bathroom/server room at the rear of 5112 was actually the rear 15-feet of the 5114 dry cleaner tenant space, constructed atop a concrete pad installed to match the 5112 tenant space floor elevation.

Orientation: Northwest

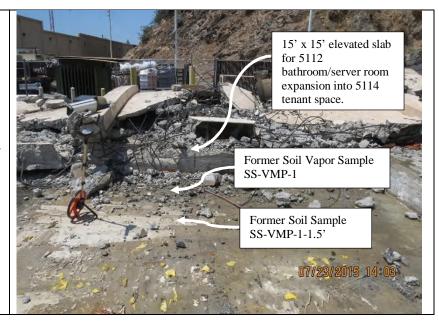


Photo: 2

Description: Rear of dry cleaner tenant space. Demolition revealed a rusted steel door, with bottom of door behind the concrete ramp, at sidewalk grade. Sidewalk is beneath the ramp.

Orientation: Southeast





Photographic Documentation Building Demolition and Soil Boring and Vapor Monitoring Probe Installation Former Rockridge Dry Cleaner – 5100 Broadway (5114 tenant space area) Oakland California Project No.: 117-7429001.06

Photo: 3

Description: Rusted out steel door. Formerly served both 5112/5114 tenant spaces.

Orientation: Southeast



Photo: 4

Description: Elevated slab removed from rear of 5114. Consists of concrete wall debris created when 5112 expanded into 5114 space. The notch in the slab represents the 4'x4' foyer entry for the original steel door that served both 5112 and 5114 spaces. Foyer was not initially filled in when elevated slab was installed in 5114.





Photographic Documentation Building Demolition and Soil Boring and Vapor Monitoring Probe Installation Former Rockridge Dry Cleaner – 5100 Broadway (5114 tenant space area) Oakland California Project No.: 117-7429001.06

Photo: 5

Description: 12" x 12" steel floor drain in the original concrete slab of 5114, beneath the elevated slab used to expand 5112 into 5114. White wrapped piping is more recent sewer line for bathroom in 5112 space. Concrete step up from 5114 to 5112 visible in background, used prior to 5112 expansion into 5114.

Orientation: Northeast

Photo: 6

Description: PID reading of floor drain immediately after uncovering (0.0 ppmv). Associated drain piping headed to rear of tenant space, but was only identified by a rust stain in the soil.

Orientation:

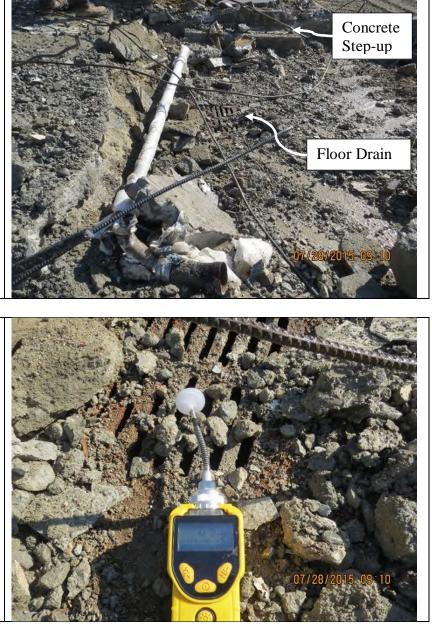




Photo: 7

Description: Looking southeast along the length of the former 5114 tenant space in Building 5; former Rockridge Cleaners. Near, square area, represents bathroom/server room raised floor area, most recently associated with the 5112 tenant space (to left).

Orientation: Southeast



Photo: 8

Description: Former entrance foyer to both 5112 and 5114 tenant spaces. The 5112 floor slab was elevated 14" compared to the 5114 floor slab.

Orientation: Southeast

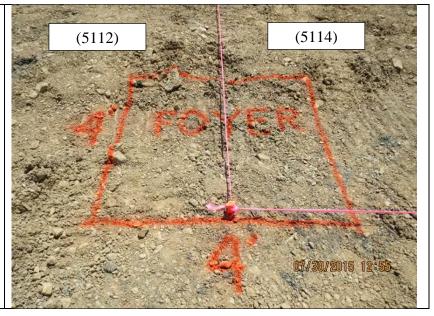




Photo: 9

Description: Former 12" x 12" floor drain located in 5114 floor slab, subsequently covered by raised floor slab during expansion of 5112 tenant space into the 5114 tenant space (15' x 15' area to back).

Orientation: Southeast

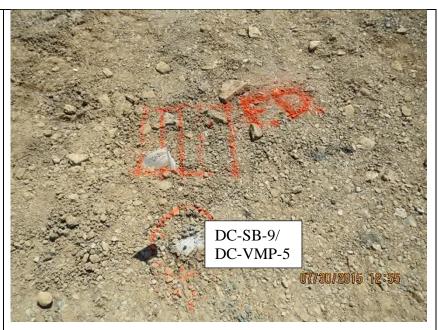


Photo: 10

Description: Looking southwest along the rear of former 5112 tenant space.

Orientation: Southwest





Photo: 11

Description: Looking northwest along the length of the former 5114 tenant space in Building 5; former Rockridge Cleaners.

Orientation: Northwest



Photo: 12

Description: Sample point DC-SB-14/DC-VMP-8.

Orientation: Northwest





Photo: 13 Description: Sample point DC-SB-3/DC-VMP-2. Water valve box and DC-SB-1/DC-VMP-1 (next to orange delineator) visible in background. Water line is live.

Orientation: Northwest



Photo: 14

Description: Sample point DC-SB-10/DC-VMP-6. Remnant slab of 8- to 10-inch thick asphalt is visible next to bollard. Water valve box visible left of frame.

Orientation: Southwest





Photo: 15

Description: Sample point DC-SB-11/DC-VMP-7.

Orientation: Northeast



Photo: 16

Description: Looking northwest along the dividing line between 5114 and 5116 tenant spaces.

Orientation: Northwest





Photo: 17

Description: Summa canisters set up for sampling VMPs on August 4, 2015.

Orientation: West

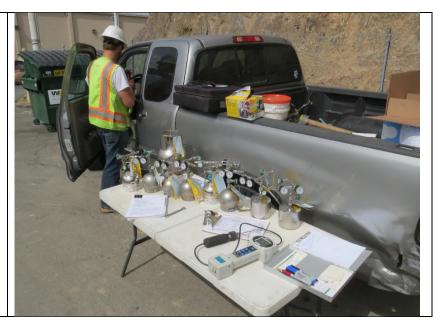


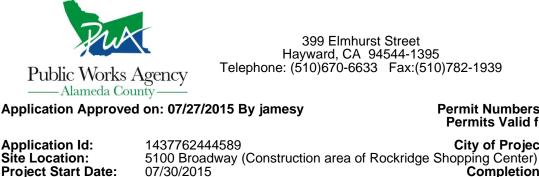
Photo: 18

Description: Typical VMP sampling setup.

Orientation: N/A



APPENDIX B ACPWA Soil Boring Permits



Project Start Date: Assigned Inspector:	07/30/2015 Contact Lindsay Furuyama at (925) 956-2311 or Lfuruyama	npletion Date:07/31/2015	
Applicant:	Tetra Tech Inc - Keith McIntyre	Phone: 916-853-4566	
Property Owner:	2969 Prospect Park Drive, Suite 100, Rancho Cordova, CA Terramar Retail Centers Rick Henderson 5918 Stoneridge Mall Road, Pleasanton, CA 94588	A 95670 Phone: 925-738-1232	
Client: Contact:	** same as Property Owner ** Keith Hoofard	Phone: 916-853-4523	
		Cell: 916-709-4732	

Receipt Number: WR2015-0366 Payer Name : Keith E McIntyre		\$530.00 <u>\$530.00</u> PAID IN FULL
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Works Requesting Permits:

Borehole(s) for Investigation-Vapor Sampling 24 to 48 hours only - 8 Boreholes Driller: Vannucci Technologies - Lic #: 814760 - Method: DP

Work Total: \$265.00

Permit Numbers: W2015-0650 to W2015-0651 Permits Valid from 07/30/2015 to 07/31/2015

City of Project Site:Oakland

Specifications

Permit Number W2015-	Issued Dt	Expire Dt	#	Hole Diam	Max Depth
Number			Boreholes		
W2015-	07/27/2015	10/28/2015	8	4.00 in.	5.00 ft
0650					

Specific Work Permit Conditions

1. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

2. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

4. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.

5. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

7. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

8. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

9. NOTE:

Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

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

11. Vapor monitoring wells constructed with tubing shall be decomissioned by complete removal of tubing, grout seal, and fill material of sand or bentonite. Fill material may be removed by hand auger if material can be removed completely.

Vapor monitoring wells constructed with pvc pipe less than 2" shall be overdrilled to total depth.

Vapor monitoring wells constructed with 2" pvc pipe or larger may be grouted by tremie pipe (any depth) or pressure grouted (less than 30', 25 psi for 5 min).

Borehole(s) for Investigation-Environmental/Monitorinig Study - 8 Boreholes Driller: Vannucci Technologies - Lic #: 814760 - Method: DP

Work Total: \$265.00

Specificatio	ns				
Permit	Issued Dt	Expire Dt	#	Hole Diam	Max Depth
Number			Boreholes		
W2015-	07/27/2015	10/28/2015	8	2.50 in.	5.00 ft
0651					

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall

be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

6. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

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

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



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

Application Approved on: 09/02/2015 By jamesy

	i on. 09/02/2013 By jamesy	Permits Valid from 09/08/2015 to 09/10/2015
Application Id:	1441041568220	City of Project Site:Oakland
Site Location: Project Start Date: Assigned Inspector:	5100 Broadway (former 5114 tenant space) 09/08/2015 Contact Steve Miller at (510) 670-5517 or stevem	Completion Date:09/10/2015 @acpwa.org
Applicant:	Tetra Tech, Inc Keith Hoofard	Phone: 916-853-1800 x4523
Property Owner:	2969 Prospect Park Drive, Suite 100, Rancho Co Rick Henderson Terramar Retail Centers 5918 Stoneridge Mall Road, Pleasanton, CA 945	Phone: 925-738-1232
Client:	Rick Henderson Terramar Retail Centers 5918 Stoneridge Mall Road, Pleasanton, CA 945	Phone: 925-738-1232
Contact:	Keith Hoofard	Phone: 916-853-1800 x4523 Cell: 916-709-4732
	Receint Number: WP2015-0434	Total Due: \$265.00

	Total Due.	\$Z05.00
Receipt Number: WR2015-0434	Total Amount Paid:	\$265.00
Payer Name : Keith D. Hoofard	Paid By: VISA	PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Vapor Sampling 24 to 48 hours only - 12 Boreholes Driller: Gregg Drilling & Testing Inc. - Lic #: 485165 - Method: auger

Work Total: \$265.00

Permit Numbers: W2015-0823

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2015- 0823	09/02/2015	12/07/2015	12	6.00 in.	25.00 ft

Specific Work Permit Conditions

1. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

2. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

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property damage, personal injury and wrongful death.

5. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

7. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

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11. Vapor monitoring wells constructed with tubing shall be decomissioned by complete removal of tubing, grout seal, and fill material of sand or bentonite. Fill material may be removed by hand auger if material can be removed completely.

Vapor monitoring wells constructed with pvc pipe less than 2" shall be overdrilled to total depth.

Vapor monitoring wells constructed with 2" pvc pipe or larger may be grouted by tremie pipe (any depth) or pressure grouted (less than 30', 25 psi for 5 min).



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

Application Approved on: 09/30/2015 Bv jamesv

Application Approved	l on: 09/30/2015 By jamesy	Permit Numbers: W2015-0930 Permits Valid from 10/05/2015 to 10/08/2015
Application Id: Site Location:	1443028046152 5100 Broadway (former 5114 tenant space)	City of Project Site:Oakland
Project Start Date: Assigned Inspector:	10/05/2015 Contact Steve Miller at (510) 670-5517 or steven	Completion Date: 10/08/2015 n@acpwa.org
Applicant:	Tetra Tech, Inc Keith Hoofard 2969 Prospect Park Drive, Suite 100, Rancho Co	Phone: 916-853-1800 x4523
Property Owner:	Rick Henderson Terramar Retail Centers 5918 Stoneridge Mall Road, Pleasanton, CA 945	Phone: 925-738-1232
Client:	Rick Henderson Terramar Retail Centers 5918 Stoneridge Mall Road, Pleasanton, CA 945	Phone: 925-738-1232
Contact:	Keith Hoofard	Phone: 916-853-1800 x4523 Cell: 916-709-4732

	Total Due:	\$265.00
Receipt Number: WR2015-0489 Payer Name : Keith D Hoofard		\$265.00 PAID IN FULL

Works Requesting Permits:

Well Destruction-Vapor monitoring well - 11 Wells Driller: Gregg Drilling & Testing, Inc. - Lic #: 485165 - Method: over

Specifications Permit # Issued Date Expire Date Owner Well Hole Diam. Casing Seal Depth Max. Depth State Well # Orig. DWR # ld Diam. Permit # W2015-09/30/2015 01/03/2016 DC-VMP-10 5.00 in. 0.25 in. 4.00 ft 13.00 ft NA W2015-NA 0930 0823 W2015-09/30/2015 01/03/2016 DC-VMP-11 5.00 in. 0.25 in. 4.00 ft 13.00 ft NA W2015-NA 0823 0930 DC-VMP-12 5.00 in. W2015-W2015-09/30/2015 01/03/2016 0.25 in. 4.00 ft 14.00 ft NA NA 0823 0930 09/30/2015 01/03/2016 DC-VMP-13 5.00 in. 4.00 ft 5.00 ft W2015-W2015-0.25 in. NA NA 0823 0930 W2015-09/30/2015 01/03/2016 DC-VMP-14 5.00 in. 0.25 in. 4.00 ft 14.00 ft NA W2015-NA 0930 0823 W2015-09/30/2015 01/03/2016 DC-VMP-15 5.00 in. 0.25 in. 4.00 ft 13.00 ft NA W2015-NA 0930 0823 W2015-W2015-09/30/2015 01/03/2016 DC-VMP-17 5.00 in. 0.25 in. 4.00 ft 13.00 ft NA NA 0930 0823 W2015-09/30/2015 01/03/2016 DC-VMP-18 5.00 in. 0.25 in. 4.00 ft 13.00 ft NA W2015-NA 0930 0823 W2015-09/30/2015 01/03/2016 DC-VMP-19 5.00 in. 0.25 in. 4.00 ft 11.00 ft NA W2015-NA 0930 0823 W2015-09/30/2015 01/03/2016 DC-VMP-20 5.00 in. 0.25 in. 4.00 ft 10.00 ft NA W2015-NA 0930 0823 W2015-09/30/2015 01/03/2016 DC-VMP-9 14.00 ft W2015-5.00 in. 0.25 in. 4.00 ft NA NA 0930 0823

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to,

Work Total: \$265.00

properly damage, personal injury and wrongful death.

2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

4. No changes in construction procedures or well type shall change, as described on this permit application. This permit may be voided if it contains incorrect information.

5. Applicant shall submit the copies of the approved encroachment permit to this office within 10 days.

6. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

7. Remove the Christy box or similar structure. Overdrill or clean out to original depth. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.

8. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

9. Vapor monitoring wells constructed with tubing shall be decomissioned by complete removal of tubing, grout seal, and fill material of sand or bentonite. Fill material may be removed by hand auger if material can be removed completely.

Vapor monitoring wells constructed with pvc pipe less than 2" shall be overdrilled to total depth.

Vapor monitoring wells constructed with 2" pvc pipe or larger may be grouted by tremie pipe (any depth) or pressure grouted (less than 30', 25 psi for 5 min).

APPENDIX C Soil Boring Logs

In progress - to be submitted under separate cover.

APPENDIX D Active Soil Gas Sampling Protocol

Active Soil Gas Sampling Protocol

Active soil gas samples are collected from the vapor monitoring points (VMPs) by connecting ¹/₄inch diameter Teflon tubing (LARWQCB, 2015), from the hose barb at the top of the VMP to a dedicated sampling manifold. A laboratory-supplied manifold prevents soil particles or water from entering the sample canisters and restricts the air flow to less than 200 milliliters per minute (mL/min). Manifolds are used once and then returned to the laboratory for cleaning.

Three purge volumes are extracted from each VMP using a 6-liter Summa canister that is only used for purging (LARWQCB, 2015). The soil gas samples are collected in a 1-liter Summa canister. As part of the quality control procedures, Summa canister vacuum levels are measured prior to and after collecting each soil gas sample. These measurements are recorded on the sample label and on the sample chain of custody form.

Ambient air leaks during soil gas sampling may dilute the samples and produce results that underestimate the actual site concentrations or contaminate the sample with external contaminants. Prior to collecting a soil gas sample in the 1-liter Summa canister, a shut-in test is conducted followed by a leak detection test using helium.

The shut-in test is used to test if the above-ground fittings are air tight. The soil gas sampling apparatus is assembled (e.g. valves, tubing, manifold, fittings) downstream from the top of the probe. The apparatus is evacuated using a vacuum of about 20 inches of mercury. The applied vacuum is allowed to equilibrate in the apparatus, all valves are then closed, and the vacuum held for at least one minute. If there is an observable loss of vacuum, then the fittings are adjusted as needed until the apparatus holds a vacuum (LARWQCB, 2015).

Helium is a naturally occurring compound and is present in air at about 5 parts per million by volume (ppmv). The potential for ambient air leaks is evaluated using a shroud. Assuming a reasonably good seal can be obtained with the shroud, the ambient air leak can be quantified with helium. The apparatus for leak detection is set up after the shut-in test has been conducted. Leak detection is implemented at the well head using industrial-grade helium gas within the sampling shroud. The shroud consists of a plastic container placed over the entire top of the VMP well head. The shroud has two ports fitted with ¼-inch stainless steel or brass through-wall bulkhead fittings equipped with hose barbs. One barb is for injection of the helium into the shroud and the second barb is for the helium detector to connect to the shroud. The Summa canister sample tubing is fed through a third hole in the shroud, fitted with a rubber grommet, and connected to the VMP via compression fittings. The helium cylinder is connected to the shroud via ¼-inch tubing.

The shroud is secured to cover the entire well top and aluminum foil or hydrated bentonite is used to seal around the bottom the shroud where the shroud does not fit evenly to the ground. The helium gas is injected into the shroud to a concentration equal to 50 percent by volume, as measured using a helium gas detector. A purge volume is calculated using the volume of the screened probe tip, the volume of the rigid tubing from the probe tip to brass ball valve at the

TETRATECH

surface, the filter pack void space volume, and the length of tubing from the brass ball valve to the vacuum 6-liter Summa canister. Three purge volumes are purged from the well tubing using the vacuum 6-liter Summa canister. The 6-liter Summa canister is closed and the 1-liter Summa sample canister valve is opened to collect the soil gas sample. The helium concentration inside the shroud is measured continuously using a helium gas detector during the soil gas sampling. The concentrations of helium are noted at the start and end of sampling.

The 1-liter Summa canisters is submitted under COC documentation to Air Toxics, LTD in Folsom, California and analyzed for VOCs using Method TO-15 Direct Inject and helium to assess potential leak detection.

Helium is analyzed based on a percentage basis. An ambient air leak of five percent of the concentration within the shroud is acceptable for quantitative testing performed by shrouding. If the concentration of helium in the laboratory sample is less than five percent of the helium concentration in the shroud (using the helium gas detector), then the sample is considered valid.

APPENDIX E Laboratory Analytical Data Sheets and Chain of Custody Forms

$C \text{ALIFORNIA} \ L \text{ABORATORY} \ S \text{ERVICES}$

3249 Fitzgerald Road Rancho Cordova, CA 95742

August 03, 2015

CLS Work Order #: CYG1470 COC #:

Tim Costello Tetra Tech EM Inc. 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670

Project Name: Terramar -5100 Broadway

Enclosed are the results of analyses for samples received by the laboratory on 07/30/15 16:34. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

= fig.

James Liang, Ph.D. Laboratory Director

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08/03/15 13:59

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Tetra Tech EM Inc.	Project: Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-1-1' (CYG1470-01) Soil S	Sampled: 07/30/15 10:05	Received: 07/30/	15 16:34						
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05254	07/31/15	07/31/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113) 1,1,2-Trichloroethane	ND	5.0		"	"	"		"	
1,1-Dichloroethane	ND	5.0	"	"	"		"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"		
1,1-Dichloropropene	ND	5.0	"	"	"		"		
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"		
1,2,3-Trichloropropane	ND	5.0	"	"	"		"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"		"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"		"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"		"	"	
1,2-Dichloroethane	ND	5.0	"	"	"		"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50		"	"		"	"	
Acetone	ND	100		"	"		"	"	
Benzene	ND	5.0	"	"	"		"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"		"	"	

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-1-1' (CYG1470-01) Soil	Sampled: 07/30/15 10:05	Received: 07/30/	15 16:34						
Bromoform	ND	5.0	µg/kg	1	CY05254	"	07/31/15	EPA 8260B	
Bromomethane	ND	10	"	"	"			"	
Carbon tetrachloride	ND	5.0	"	"	"	"		"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"		"	"	
Chloromethane	ND	10	"	"	"		"	"	
cis-1,2-Dichloroethene	5.0	5.0	"		"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"		"	"	"	"	
Dibromochloromethane	ND	5.0	"		"	"	"	"	
Dibromomethane	ND	5.0	"	"	"			"	
Dichlorodifluoromethane (Freon 12	2) ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"		"	
Hexachlorobutadiene	ND	5.0	"	"	"			"	
Isopropylbenzene	ND	5.0	"	"	"			"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"		"	
Methylene chloride	ND	20	"		"	"	"	"	
Naphthalene	ND	5.0	"	"	"			"	
n-Butylbenzene	ND	5.0	"	"	"			"	
n-Propylbenzene	ND	5.0	"	"	"			"	
o-Chlorotoluene	ND	5.0	"		"		"	"	
p-Chlorotoluene	ND	5.0	"		"		"	"	
p-Isopropyltoluene	ND	5.0	"		"		"	"	
sec-Butylbenzene	ND	5.0	"		"	"	"	"	
Styrene	ND	5.0	"		"		"	"	
tert-Butylbenzene	ND	5.0	"		"		"	"	
Tetrachloroethene	6.0	5.0	"		"		"	"	
Toluene	ND	5.0	"		"		"	"	
trans-1,2-Dichloroethene	ND	5.0	"		"		"	"	
trans-1,3-Dichloropropene	ND	5.0	"		"		"	"	
Trichloroethene	ND	5.0	"		"	"	"	"	

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2969 Prospect Park Drive, Suite 100	Project Number: 117-7429001.06	CLS Work Order #: CYG1470	
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:	

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-1-1' (CYG1470-01) Soil Sampled	: 07/30/15 10:05 Re	ceived: 07/30/	15 16:34						
Trichlorofluoromethane	ND	5.0	µg/kg	1	CY05254	"	07/31/15	EPA 8260B	
Vinyl chloride	ND	10	"	"	"	"	"		
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		100 %	50)-125	"		"	"	
Surrogate: 4-Bromofluorobenzene		98 %	50)-128	"	"	"	"	
Surrogate: Toluene-d8		95 %	62	2-125	"	"	"	"	
DC-SB-1-5' (CYG1470-02) Soil Sampled	: 07/30/15 10:06 Re	ceived: 07/30/	15 16:34						
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05254	07/31/15	07/31/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113)								"	
1,1,2-Trichloroethane	ND	5.0	"			"	"		
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"		
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,2-Dichloroethane	ND	5.0	"	"	"	"	"		
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Rest	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-1-5' (CYG1470-02) Soil	Sampled: 07/30/15 10:06	Received: 07/30/	15 16:34						
2,2-Dichloropropane	ND	5.0	µg/kg	1	CY05254	"	07/31/15	EPA 8260B	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"		"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 1	2) ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	

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1,2,3-Trichloropropane

1,2,4-Trichlorobenzene

1,2,4-Trimethylbenzene

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-1-5' (CYG1470-02) Soil	Sampled: 07/30/15 10:06	Received: 07/30/	15 16:34						
p-Isopropyltoluene	ND	5.0	µg/kg	1	CY05254	"	07/31/15	EPA 8260B	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"		
Trichloroethene	ND	5.0	"		"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"		
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		99 %	50	-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		96 %	62	-125	"	"	"	"	
DC-SB-2-1' (CYG1470-03) Soil	Sampled: 07/30/15 10:12	Received: 07/30/	15 16:34						
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05254	07/31/15	07/31/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroetha	ne ND	5.0	"	"	"	"	"		
(Freon 113)									
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"		"	"	"		
1,1-Dichloropropene	ND	5.0	"	"	"	"	"		
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"		"	

CA DOHS ELAP Accreditation/Registration Number 1233

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-2-1' (CYG1470-03) Soil	Sampled: 07/30/15 10:12	Received: 07/30/	15 16:34						
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	1	CY05254	"	07/31/15	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"		"	"	
Chlorobenzene	ND	5.0	"	"	"		"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"		"	"	
cis-1,2-Dichloroethene	25	5.0	"	"	"		"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0		"	"	"	"	"	
Dibromomethane	ND	5.0		"	"		"	"	
Dichlorodifluoromethane (Freon 1	2) ND	10	"	"	"		"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	

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Tetra Tech EM Inc.	Project: Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-2-1' (CYG1470-03) Soil	Sampled: 07/30/15 10:12	Received: 07/30/	15 16:34						
Hexachlorobutadiene	ND	5.0	µg/kg	1	CY05254	"	07/31/15	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"		
Methylene chloride	ND	20	"	"	"	"	"		
Naphthalene	ND	5.0	"	"	"	"	"		
n-Butylbenzene	ND	5.0	"	"	"	"	"		
n-Propylbenzene	ND	5.0	"	"	"	"	"		
o-Chlorotoluene	ND	5.0	"	"	"	"	"		
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"		
sec-Butylbenzene	ND	5.0	"	"	"	"	"		
Styrene	ND	5.0	"	"	"	"	"		
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	36	5.0	"	"	"	"	"		
Toluene	ND	5.0	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"		
Trichloroethene	21	5.0	"	"	"	"	"		
Trichlorofluoromethane	ND	5.0	"	"	"	"	"		
Vinyl chloride	ND	10	"	"	"	"	"		
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	!	110 %	50	-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		120 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		99 %		-125	"	"	"	"	

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ſ	Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-2-5' (CYG1470-04) Soil S	Sampled: 07/30/15 10:13	Received: 07/30/	15 16:34						
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05254	07/31/15	07/31/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"		
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"		
(Freon 113) 1,1,2-Trichloroethane	ND	5.0		"	"	"		"	
1,1-Dichloroethane	ND	5.0	"	"	"		"	"	
1,1-Dichloroethene	ND	5.0	"	"	"		"	"	
1,1-Dichloropropene	ND	5.0	"	"	"		"		
1,2,3-Trichlorobenzene	ND	5.0	"	"	"		"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"		"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"		"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"		"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"		"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,2-Dichloroethane	ND	5.0	"	"	"		"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"		
2,2-Dichloropropane	ND	5.0	"	"	"	"	"		
2-Butanone	ND	100	"	"	"	"	"		
2-Hexanone	ND	50		"	"		"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"		
Acetone	ND	100	"	"	"		"		
Benzene	ND	5.0		"	"		"	"	
Bromobenzene	ND	5.0		"	"		"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"		
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	

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Tetra Tech EM Inc.	Project: Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-2-5' (CYG1470-04) Soil	Sampled: 07/30/15 10:13	Received: 07/30/	15 16:34						
Bromoform	ND	5.0	µg/kg	1	CY05254	"	07/31/15	EPA 8260B	
Bromomethane	ND	10	"	"	"	"		"	
Carbon tetrachloride	ND	5.0	"	"	"	"		"	
Chlorobenzene	ND	5.0	"	"	"	"		"	
Chloroethane	ND	5.0	"	"	"	"		"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	27	5.0	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"		"	"	"	"	
Dichlorodifluoromethane (Freon 12	2) ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"		"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"		"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"		"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"		"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"		"	"	"	"	
tert-Butylbenzene	ND	5.0	"		"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"		"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"		"		"	"	
Trichloroethene	36	5.0	"		"		"	"	

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	-	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-2-5' (CYG1470-04) Soil	Sampled: 07/30/15 10:13	Received: 07/30/	15 16:34						
Trichlorofluoromethane	ND	5.0	µg/kg	1	CY05254	"	07/31/15	EPA 8260B	
Vinyl chloride	ND	10		"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		95 %	50)-125	"		"	"	
Surrogate: 4-Bromofluorobenzene		105 %	50)-128	"	"	"	"	
Surrogate: Toluene-d8		97 %	62	2-125	"	"	"	"	
DC-SB-3-1' (CYG1470-05) Soil	Sampled: 07/30/15 10:20	Received: 07/30/	15 16:34						
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05254	07/31/15	07/31/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0		"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethan	ne ND	5.0	"	"	"	"	"	"	
(Freon 113) 1,1,2-Trichloroethane	ND	5.0	"		"		"	"	
1,1-Dichloroethane	ND	5.0	"	"	"		"		
1,1-Dichloroethene	ND	5.0	"	"	"		"		
1,1-Dichloropropene	ND	5.0	"	"		"			
1,2,3-Trichlorobenzene	ND	5.0	"	"			"	"	
1,2,3-Trichloropropane	ND	5.0	"	"			"		
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"		
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"		
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"		
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"		
1,2-Dichlorobenzene	ND	5.0	"	"	"		"		
1,2-Dichloroethane	ND	5.0	"	"	"	"	"		
1,2-Dichloropropane	ND	5.0	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"		
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,3-Dichloropropane	ND	5.0	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"		

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Rest		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-3-1' (CYG1470-05) Soil S	Sampled: 07/30/15 10:20	Received: 07/30/	15 16:34						
2,2-Dichloropropane	ND	5.0	µg/kg	1	CY05254	"	07/31/15	EPA 8260B	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"		
Bromobenzene	ND	5.0	"	"	"	"	"		
Bromochloromethane	ND	5.0	"	"	"	"	"		
Bromodichloromethane	ND	5.0	"	"	"	"	"		
Bromoform	ND	5.0	"	"	"	"	"		
Bromomethane	ND	10	"	"	"		"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"		
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"		
Dibromomethane	ND	5.0	"	"	"	"	"		
Dichlorodifluoromethane (Freon 12)) ND	10	"	"	"	"	"		
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"		
Methylene chloride	ND	20	"	"	"	"	"		
Naphthalene	ND	5.0	"	"	"	"	"		
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	

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1,2,4-Trichlorobenzene

1,2,4-Trimethylbenzene

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-3-1' (CYG1470-05) Soil	Sampled: 07/30/15 10:20	Received: 07/30/	15 16:34						
p-Isopropyltoluene	ND	5.0	µg/kg	1	CY05254	"	07/31/15	EPA 8260B	
sec-Butylbenzene	ND	5.0	"	"	"		"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	11	5.0		"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"		
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"		"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		102 %	50	-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		93 %	62	-125	"	"	"	"	
DC-SB-3-5' (CYG1470-06) Soil	Sampled: 07/30/15 10:21	Received: 07/30/	15 16:34						
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05254	07/31/15	07/31/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethar	ne ND	5.0	"	"	"	"	"	"	
(Freon 113)									
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"		"	"		"	
1,2,5-1110110100ellzelle	ND	5.0							

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Tetra Tech EM Inc.	Project: Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-3-5' (CYG1470-06) Soil	Sampled: 07/30/15 10:21	Received: 07/30/							
1,2-Dibromo-3-chloropropane	ND	10	μg/kg	1	CY05254	"	07/31/15	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"			
1,2-Dichlorobenzene	ND	5.0	"	"	"	"			
1,2-Dichloroethane	ND	5.0	"	"	"	"			
1,2-Dichloropropane	ND	5.0	"	"	"	"			
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"			
1,3-Dichlorobenzene	ND	5.0	"	"	"	"			
1,3-Dichloropropane	ND	5.0	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"		"	
2-Hexanone	ND	50	"	"	"	"		"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"		"	
Bromochloromethane	ND	5.0	"	"	"	"		"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"		"	
Chlorobenzene	ND	5.0	"	"	"	"		"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"		"		"		
Chloromethane	ND	10	"		"		"	"	
cis-1,2-Dichloroethene	26	5.0	"		"		"	"	
cis-1,3-Dichloropropene	ND	5.0	"		"		"	"	
Dibromochloromethane	ND	5.0	"		"		"	"	
Dibromomethane	ND	5.0	"		"		"		
Dichlorodifluoromethane (Freon 1	2) ND	10	"		"	"	"		
Ethylbenzene	ND	5.0	"		"	"	"		

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-3-5' (CYG1470-06) Soil	Sampled: 07/30/15 10:21	Received: 07/30/	15 16:34						
Hexachlorobutadiene	ND	5.0	µg/kg	1	CY05254	"	07/31/15	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"		
Methylene chloride	ND	20	"	"	"	"	"		
Naphthalene	ND	5.0	"	"	"	"	"		
n-Butylbenzene	ND	5.0	"	"	"	"	"		
n-Propylbenzene	ND	5.0	"	"	"	"	"		
o-Chlorotoluene	ND	5.0	"	"	"	"	"		
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"		
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	12	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	12	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"		"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	1	108 %	50	-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	50	-128	"		"	"	
Surrogate: Toluene-d8		97 %	62	-125	"	"	"	"	

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ſ	Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-4-1' (CYG1470-07) Soil Sampled:	07/30/15 10:26 R	Received: 07/30/1	15 16:34						
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05254	07/31/15	08/01/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		"	"	"	"	"	
(Freon 113)									
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0		"	"	"	"	"	
1,1-Dichloropropene	ND	5.0		"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0		"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10		"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,3-Dichloropropane	ND	5.0		"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"		"	"	"		
Bromodichloromethane	ND	5.0			"	"	"		

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-4-1' (CYG1470-07) Soil	Sampled: 07/30/15 10:26	Received: 07/30/	15 16:34						
Bromoform	ND	5.0	µg/kg	1	CY05254	"	08/01/15	EPA 8260B	
Bromomethane	ND	10	"	"	"	"	"		
Carbon tetrachloride	ND	5.0	"	"	"	"		"	
Chlorobenzene	ND	5.0	"	"	"	"		"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"		
Chloromethane	ND	10	"	"	"	"		"	
cis-1,2-Dichloroethene	16	5.0	"		"	"	"		
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"		
Dibromochloromethane	ND	5.0	"		"	"	"		
Dibromomethane	ND	5.0	"		"	"	"		
Dichlorodifluoromethane (Freon 12	2) ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"		"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"		"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"		"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"		"	
n-Butylbenzene	ND	5.0	"	"	"	"		"	
n-Propylbenzene	ND	5.0	"	"	"	"		"	
o-Chlorotoluene	ND	5.0	"	"	"	"		"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"		"	
sec-Butylbenzene	ND	5.0	"		"	"	"		
Styrene	ND	5.0	"		"	"	"		
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	10	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"		"	"	"		
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"		
Trichloroethene	15	5.0	"	"	"	"	"		

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Tetra Tech EM Inc. 2969 Prospect Park Drive, Suite 100	Project:	CLS Work Order #: CYG1470
	Project Manager:	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-4-1' (CYG1470-07) Soil Sam	pled: 07/30/15 10:26	Received: 07/30/	15 16:34						
Trichlorofluoromethane	ND	5.0	µg/kg	1	CY05254	"	08/01/15	EPA 8260B	
Vinyl chloride	ND	10	"	"	"		"		
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		105 %	50)-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		117 %	50	-128	"		"	"	
Surrogate: Toluene-d8		93 %	62	-125	"	"	"	"	
DC-SB-4-5' (CYG1470-08) Soil Sam	pled: 07/30/15 10:27	Received: 07/30/2	15 16:34						
1,1,1,2-Tetrachloroethane	ND	5.0	μg/kg	1	CY05254	07/31/15	08/01/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113)	_	_							
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"		"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"		
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"		
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"		"		
1,3-Dichlorobenzene	ND	5.0	"	"	"		"		
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-4-5' (CYG1470-08) Soil	Sampled: 07/30/15 10:27	Received: 07/30/	15 16:34						
2,2-Dichloropropane	ND	5.0	µg/kg	1	CY05254	"	08/01/15	EPA 8260B	
2-Butanone	ND	100	"	"	"	"	"		
2-Hexanone	ND	50	"	"	"	"	"		
4-Methyl-2-pentanone	ND	50	"	"	"	"	"		
Acetone	ND	100	"	"	"	"	"		
Benzene	ND	5.0	"	"	"	"	"		
Bromobenzene	ND	5.0	"	"	"	"	"		
Bromochloromethane	ND	5.0	"	"	"	"	"		
Bromodichloromethane	ND	5.0	"	"	"	"	"		
Bromoform	ND	5.0	"	"	"	"	"		
Bromomethane	ND	10	"	"	"	"	"		
Carbon tetrachloride	ND	5.0	"	"	"	"	"		
Chlorobenzene	ND	5.0	"	"	"	"	"		
Chloroethane	ND	5.0	"	"	"	"	"		
Chloroform	ND	5.0	"	"	"	"	"		
Chloromethane	ND	10	"	"	"	"	"		
cis-1,2-Dichloroethene	23	5.0	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"		
Dibromochloromethane	ND	5.0	"	"	"	"	"		
Dibromomethane	ND	5.0	"	"	"	"	"		
Dichlorodifluoromethane (Freon 12) ND	10	"	"	"	"	"		
Ethylbenzene	ND	5.0	"	"	"	"	"		
Hexachlorobutadiene	ND	5.0	"	"	"	"	"		
Isopropylbenzene	ND	5.0	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"		
Methylene chloride	ND	20	"	"	"	"	"		
Naphthalene	ND	5.0	"	"	"	"	"		
n-Butylbenzene	ND	5.0	"	"	"	"	"		
n-Propylbenzene	ND	5.0	"	"	"	"	"		
o-Chlorotoluene	ND	5.0	"	"	"	"	"		
p-Chlorotoluene	ND	5.0	"	"	"	"	"		

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1,2,4-Trichlorobenzene

1,2,4-Trimethylbenzene

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ſ		e e	117-7429001.06	CLS Work Order #: CYG1470
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-4-5' (CYG1470-08) Soil	Sampled: 07/30/15 10:27	Received: 07/30/	15 16:34						
p-Isopropyltoluene	ND	5.0	µg/kg	1	CY05254	"	08/01/15	EPA 8260B	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	6.9	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	
Trichloroethene	19	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		102 %	50	-125	"		"	"	
Surrogate: 4-Bromofluorobenzene		96 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		98 %	62	-125	"	"	"	"	
DC-SB-5-1' (CYG1470-09) Soil	Sampled: 07/30/15 10:52	Received: 07/30/	15 16:34						
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05254	07/31/15	08/01/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroetha	ne ND	5.0	"	"	"	"	"	"	
(Freon 113)									
1,1,2-Trichloroethane	ND	5.0		"	"	"	"	"	
1,1-Dichloroethane	ND	5.0		"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"		"	"	

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Tetra Tech EM Inc.	Project: Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-5-1' (CYG1470-09) Soil	Sampled: 07/30/15 10:52	Received: 07/30/	15 16:34						
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	1	CY05254	"	08/01/15	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"		"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"		"	"	"	"	
2,2-Dichloropropane	ND	5.0	"		"		"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"		"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"		"		"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"		"		"	"	
cis-1,2-Dichloroethene	ND	5.0	"		"		"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"		"		"	"	
Dibromomethane	ND	5.0	"		"	"	"	"	
Dichlorodifluoromethane (Freon 1	2) ND	10	"		"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-5-1' (CYG1470-09) Soil	Sampled: 07/30/15 10:52	Received: 07/30/	15 16:34						
Hexachlorobutadiene	ND	5.0	µg/kg	1	CY05254	"	08/01/15	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"		
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"		
n-Propylbenzene	ND	5.0	"	"	"		"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"		
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"		"	"	
Vinyl chloride	ND	10	"	"	"		"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	!	105 %	50	-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	,	90 %	50	-128	"		"	"	
Surrogate: Toluene-d8		99 %	62	-125	"	"	"	"	

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ſ	Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-5-5' (CYG1470-10) Soil Sa	ampled: 07/30/15 10:53	Received: 07/30/	15 16:34						
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05254	07/31/15	08/01/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113) 1,1,2-Trichloroethane	ND	5.0		"	"			"	
1,1-Dichloroethane	ND	5.0	"	"	"		"	"	
1,1-Dichloroethene	ND	5.0	"	"	"		"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"		"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50		"	"		"	"	
4-Methyl-2-pentanone	ND	50		"	"		"	"	
Acetone	ND	100	"	"	"		"	"	
Benzene	ND	5.0		"	"		"	"	
Bromobenzene	ND	5.0		"	"		"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-5-5' (CYG1470-10) Soil	Sampled: 07/30/15 10:53	Received: 07/30/	15 16:34						
Bromoform	ND	5.0	µg/kg	1	CY05254	"	08/01/15	EPA 8260B	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	23	5.0	"		"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"		"	"	"	"	
Dibromomethane	ND	5.0	"		"	"	"	"	
Dichlorodifluoromethane (Freon 12	2) ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"		"	"	"	"	
Styrene	ND	5.0	"		"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	19	5.0	"		"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	9.2	5.0	"	"	"	"	"	"	

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Tetra Tech EM Inc. 2969 Prospect Park Drive, Suite 100	Project:	CLS Work Order #: CYG1470
	Project Manager:	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-5-5' (CYG1470-10) Soil	Sampled: 07/30/15 10:53	Received: 07/30/	15 16:34						
Trichlorofluoromethane	ND	5.0	µg/kg	1	CY05254	"	08/01/15	EPA 8260B	
Vinyl chloride	ND	10		"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		101 %	50)-125	"		"	"	
Surrogate: 4-Bromofluorobenzene		100 %	50)-128	"	"	"	"	
Surrogate: Toluene-d8		99 %	62	2-125	"	"	"	"	
DC-SB-6-1' (CYG1470-11) Soil	Sampled: 07/30/15 10:59	Received: 07/30/	15 16:34						
1,1,1,2-Tetrachloroethane	ND	5.0	μg/kg	1	CY05254	07/31/15	08/01/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroetha	ne ND	5.0		"	"	"	"	"	
(Freon 113)									
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0		"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0		"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"		
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,3-Dichloropropane	ND	5.0	"	"			"		
1,4-Dichlorobenzene	ND	5.0		"	"		"		

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Tetra Tech EM Inc.	Project: Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Rest		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-6-1' (CYG1470-11) Soil S	Sampled: 07/30/15 10:59	Received: 07/30/	15 16:34						
2,2-Dichloropropane	ND	5.0	µg/kg	1	CY05254	"	08/01/15	EPA 8260B	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"		"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"		
Bromodichloromethane	ND	5.0	"	"	"	"	"		
Bromoform	ND	5.0	"	"	"	"	"		
Bromomethane	ND	10	"	"	"		"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"		
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	8.0	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"		
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)) ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"		"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"		
Methylene chloride	ND	20	"	"		"	"		
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"		
n-Propylbenzene	ND	5.0	"	"	"		"		
o-Chlorotoluene	ND	5.0	"	"	"		"		
p-Chlorotoluene	ND	5.0	"	"	"	"	"		
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CALIFORNIA **L**ABORATORY **S**ERVICES

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1,2,3-Trichlorobenzene

1,2,3-Trichloropropane

1,2,4-Trichlorobenzene

1,2,4-Trimethylbenzene

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2969 Prospect Park Drive, Suite 100Project Number: 117-7429001.06CLS Work Order #: CYGRancho Cordova, CA 95670Project Manager: Tim CostelloCOC #:	.06 CLS Work Order #: CYG1470	117-7429001.06		Tetra Tech EM Inc. 2969 Prospect Park Drive, Suite 100 Bancho Cordova, CA 95670
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting Ilt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-6-1' (CYG1470-11) Soil	Sampled: 07/30/15 10:59	Received: 07/30	/15 16:34						
p-Isopropyltoluene	ND	5.0	µg/kg	1	CY05254	"	08/01/15	EPA 8260B	
sec-Butylbenzene	ND	5.0	"	"	"	"	"		
Styrene	ND	5.0	"	"	"		"		
tert-Butylbenzene	ND	5.0	"	"	"		"		
Tetrachloroethene	21	5.0	"	"	"	"	"		
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	10	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		100 %	50)-125	"		"	"	
Surrogate: 4-Bromofluorobenzene		99 %	50	-128	"		"	"	
Surrogate: Toluene-d8		99 %	62	-125	"	"	"	"	
DC-SB-6-5' (CYG1470-12) Soil	Sampled: 07/30/15 11:00	Received: 07/30/	/15 16:34						
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05254	07/31/15	08/01/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroetha	ne ND	5.0	"	"	"	"	"	"	
(Freon 113) 1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"		"		
1,1-Dichloroethene	ND	5.0	"	"	"	"	"		
1,1-Dichloropropene	ND	5.0	"	"	"	"	"		
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CA DOHS ELAP Accreditation/Registration Number 1233

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Tetra Tech EM Inc.	Project: Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting It Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-6-5' (CYG1470-12) Soil	Sampled: 07/30/15 11:00	Received: 07/30/	15 16:34						
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	1	CY05254	"	08/01/15	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"		"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"		"	"	
Chlorobenzene	ND	5.0	"	"	"		"	"	
Chloroethane	ND	5.0	"	"	"		"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	23	5.0	"	"	"		"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"		"	"	
Dibromochloromethane	ND	5.0	"		"		"	"	
Dibromomethane	ND	5.0	"		"		"	"	
Dichlorodifluoromethane (Freon 1	2) ND	10	"		"		"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"		

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ſ	Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-6-5' (CYG1470-12) Soil	Sampled: 07/30/15 11:00	Received: 07/30/	15 16:34						
Hexachlorobutadiene	ND	5.0	µg/kg	1	CY05254	"	08/01/15	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"		
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"		
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"		
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	12	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	17	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		96 %	50	-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		95 %	62	-125	"		"	"	

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ſ	Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-7-1' (CYG1470-13) Soil Sampled: 07/	/30/15 11:08 Rec	eived: 07/30/1	5 16:34						
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05254	07/31/15	08/01/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		"	"	"	"	"	
(Freon 113)		- 0							
1,1,2-Trichloroethane	ND	5.0	"		"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"		
2,2-Dichloropropane	ND	5.0	"		"	"	"		
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0		"	"	"	"	"	
Bromobenzene	ND	5.0	"		"	"	"	"	
Bromochloromethane	ND	5.0	"		"	"	"	"	
Bromodichloromethane	ND	5.0			"	"	"		

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Tetr	a Tech EM Inc.	Project:	Terramar -5100 Broadway	
296	Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Ran	cho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Rest		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-7-1' (CYG1470-13) Soil	Sampled: 07/30/15 11:08	Received: 07/30/1	15 16:34						
Bromoform	ND	5.0	µg/kg	1	CY05254	"	08/01/15	EPA 8260B	
Bromomethane	ND	10	"	"	"		"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"		"	"	
Chloromethane	ND	10	"	"	"		"	"	
cis-1,2-Dichloroethene	5.2	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"		"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12	2) ND	10	"	"	"		"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"		"	"	
Isopropylbenzene	ND	5.0	"	"	"		"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"		"	"	
n-Butylbenzene	ND	5.0	"	"	"		"	"	
n-Propylbenzene	ND	5.0	"	"	"		"	"	
o-Chlorotoluene	ND	5.0	"	"	"		"	"	
p-Chlorotoluene	ND	5.0	"	"	"		"	"	
p-Isopropyltoluene	ND	5.0	"	"	"		"	"	
sec-Butylbenzene	ND	5.0	"		"	"	"	"	
Styrene	ND	5.0	"		"	"	"	"	
tert-Butylbenzene	ND	5.0	"		"	"	"	"	
Tetrachloroethene	6.8	5.0	"		"	"	"	"	
Toluene	ND	5.0	"		"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"		"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"		"	"	"	"	
Trichloroethene	ND	5.0	"		"	"	"	"	

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	-	117-7429001.06	CLS Work Order #: CYG1470 COC #:
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting It Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-7-1' (CYG1470-13) Soil Sam	pled: 07/30/15 11:08	Received: 07/30/	15 16:34						
Trichlorofluoromethane	ND	5.0	µg/kg	1	CY05254	"	08/01/15	EPA 8260B	
Vinyl chloride	ND	10		"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		114 %	50)-125	"		"	"	
Surrogate: 4-Bromofluorobenzene		97 %	50)-128	"	"	"	"	
Surrogate: Toluene-d8		102 %	62	2-125	"		"	"	
DC-SB-7-5' (CYG1470-14) Soil Sam	pled: 07/30/15 11:09	Received: 07/30/	15 16:34						
1,1,1,2-Tetrachloroethane	ND	5.0	μg/kg	1	CY05254	07/31/15	08/01/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		"	"	"	"	"	
(Freon 113)									
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"		
1,1-Dichloroethane	ND	5.0		"	"	"	"		
1,1-Dichloroethene	ND	5.0		"	"	"	"		
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0		"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0		"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"		
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,3-Dichloropropane	ND	5.0		"	"	"	"		
1,4-Dichlorobenzene	ND	5.0		"	"	"	"		

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ſ	Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Rest		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-7-5' (CYG1470-14) Soil S	Sampled: 07/30/15 11:09	Received: 07/30/	15 16:34						
2,2-Dichloropropane	ND	5.0	µg/kg	1	CY05254	"	08/01/15	EPA 8260B	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"		
Bromodichloromethane	ND	5.0	"	"	"	"	"		
Bromoform	ND	5.0	"	"	"	"	"		
Bromomethane	ND	10	"	"	"	"	"		
Carbon tetrachloride	ND	5.0	"	"	"	"	"		
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	6.0	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)) ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"		
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"		"	"		
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	

CALIFORNIA **L**ABORATORY **S**ERVICES

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1,1-Dichloroethene

1,1-Dichloropropene

1,2,3-Trichlorobenzene

1,2,3-Trichloropropane

1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 08/03/15 13:59

ſ		e e	117-7429001.06	CLS Work Order #: CYG1470
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

		Reporting							
Analyte	Resu		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-7-5' (CYG1470-14) Soil	Sampled: 07/30/15 11:09	Received: 07/30/	15 16:34						
p-Isopropyltoluene	ND	5.0	µg/kg	1	CY05254	"	08/01/15	EPA 8260B	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0		"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	7.5	5.0	"	"	"	"	"	"	
Toluene	ND	5.0		"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	
Trichloroethene	ND	5.0		"	"	"	"	"	
Trichlorofluoromethane	ND	5.0		"	"		"	"	
Vinyl chloride	ND	10		"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		108 %	50	-125	"		"	"	
Surrogate: 4-Bromofluorobenzene		115 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		98 %	62	-125	"	"	"	"	
DC-SB-8-1' (CYG1470-15) Soil	Sampled: 07/30/15 11:15	Received: 07/30/	15 16:34						
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05254	07/31/15	08/01/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0		"	"		"	"	
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethar (Freon 113)	ne ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0		"	"	"	"	"	
1,1-Dichloroethane	ND	5.0		"	"	"	"	"	

CA DOHS ELAP Accreditation/Registration Number 1233

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Tetra Tech EM Inc.	Project: Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting Ilt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-8-1' (CYG1470-15) Soil	Sampled: 07/30/15 11:15	Received: 07/30/	15 16:34						
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	1	CY05254	"	08/01/15	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"		
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,2-Dichloroethane	ND	5.0	"	"	"	"	"		
1,2-Dichloropropane	ND	5.0	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"		"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"		"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"		"	"	"	"	
Dichlorodifluoromethane (Freon 1	2) ND	10	"		"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"		

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Tetr	a Tech EM Inc.	Project:	Terramar -5100 Broadway	
296	Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Ran	cho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-8-1' (CYG1470-15) Soil	Sampled: 07/30/15 11:15	Received: 07/30/	15 16:34						
Hexachlorobutadiene	ND	5.0	µg/kg	1	CY05254	"	08/01/15	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"		
Methylene chloride	ND	20	"	"	"	"	"		
Naphthalene	ND	5.0	"	"	"	"	"		
n-Butylbenzene	ND	5.0	"	"	"	"	"		
n-Propylbenzene	ND	5.0	"	"	"	"	"		
o-Chlorotoluene	ND	5.0	"	"	"	"	"		
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"		
sec-Butylbenzene	ND	5.0	"	"	"	"	"		
Styrene	ND	5.0	"	"	"	"	"		
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	7.8	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"		
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"		
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	1	111 %	50	-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	2	106 %	50	-128	"		"	"	
Surrogate: Toluene-d8		95 %	62	-125	"	"	"	"	

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-8-5' (CYG1470-16) Soil Sampled: 07/30	/15 11:16 Rec	eived: 07/30/1	5 16:34						
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05254	07/31/15	08/01/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		"	"	"	"	"	
(Freon 113)									
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0		"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0		"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0		"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0		"	"	"	"	"	
2,2-Dichloropropane	ND	5.0		"	"	"	"	"	
2-Butanone	ND	100	"		"	"	"		
2-Hexanone	ND	50			"	"	"		
4-Methyl-2-pentanone	ND	50	"		"	"	"		
Acetone	ND	100			"	"	"	"	
Benzene	ND	5.0	"		"	"		"	
Bromobenzene	ND	5.0			"	"	"	"	
Bromochloromethane	ND	5.0			"		"		
Bromodichloromethane	ND	5.0			"				

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Rest	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-8-5' (CYG1470-16) Soil	Sampled: 07/30/15 11:16	Received: 07/30/	15 16:34						
Bromoform	ND	5.0	µg/kg	1	CY05254	"	08/01/15	EPA 8260B	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"		
Chlorobenzene	ND	5.0	"	"	"	"	"		
Chloroethane	ND	5.0	"	"	"	"	"		
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"		
cis-1,2-Dichloroethene	6.3	5.0		"	"	"	"		
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"		
Dibromochloromethane	ND	5.0	"	"	"	"	"		
Dibromomethane	ND	5.0	"	"	"	"	"		
Dichlorodifluoromethane (Freon 12	2) ND	10	"	"	"	"	"		
Ethylbenzene	ND	5.0	"	"	"	"	"		
Hexachlorobutadiene	ND	5.0	"	"	"	"	"		
Isopropylbenzene	ND	5.0	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"		"	
Methylene chloride	ND	20	"	"	"	"	"		
Naphthalene	ND	5.0	"	"	"	"	"		
n-Butylbenzene	ND	5.0	"	"	"	"		"	
n-Propylbenzene	ND	5.0	"	"	"	"		"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"		
p-Chlorotoluene	ND	5.0	"	"	"	"	"		
p-Isopropyltoluene	ND	5.0	"	"	"	"	"		
sec-Butylbenzene	ND	5.0	"	"	"	"	"		
Styrene	ND	5.0	"	"	"	"	"		
tert-Butylbenzene	ND	5.0	"	"	"	"	"		
Tetrachloroethene	8.1	5.0	"	"	"	"	"		
Toluene	ND	5.0	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"		
Trichloroethene	12	5.0	"	"	"	"	"	"	

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	-	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-8-5' (CYG1470-16) Soil San	mpled: 07/30/15 11:16	Received: 07/30/	15 16:34						
Trichlorofluoromethane	ND	5.0	μg/kg	1	CY05254	"	08/01/15	EPA 8260B	
Vinyl chloride	ND	10	"		"		"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		98 %	50)-125	"		"	"	
Surrogate: 4-Bromofluorobenzene		94 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		98 %	62	-125	"	"	"	"	
DC-SB-9-1' (CYG1470-17) Soil San	mpled: 07/30/15 11:23	Received: 07/30/2	15 16:34						
1,1,1,2-Tetrachloroethane	ND	5.0	μg/kg	1	CY05254	07/31/15	08/01/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113)									
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"		
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"		"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"		"		
1,2-Dichloroethane	ND	5.0	"	"	"		"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	5.0	"	"	"		"		
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,3-Dichloropropane	ND	5.0	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0			"		"		

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Tetra Tech EM Inc		Project:	Terramar -5100 Broadway	
2969 Prospect Park	Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, C	A 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-9-1' (CYG1470-17) Soil	Sampled: 07/30/15 11:23	Received: 07/30/	15 16:34						
2,2-Dichloropropane	ND	5.0	µg/kg	1	CY05254		08/01/15	EPA 8260B	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"		
Bromobenzene	ND	5.0	"	"	"	"	"		
Bromochloromethane	ND	5.0	"	"	"	"	"		
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"		
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12	2) ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"		
Isopropylbenzene	ND	5.0	"	"		"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0		"	"	"	"	"	
n-Propylbenzene	ND	5.0		"	"		"	"	
o-Chlorotoluene	ND	5.0		"	"		"		
p-Chlorotoluene	ND	5.0		"	"				

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1,1-Dichloroethane

1,1-Dichloroethene

1,1-Dichloropropene

1,2,3-Trichlorobenzene

1,2,3-Trichloropropane

1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 08/03/15 13:59

Tetra Tech EM Inc. 2969 Prospect Park Drive, Suite 100 Bancho Cordova, CA 95670	Project: Terramar -5100 Broadway Project Number: 117-7429001.06 Project Managar: Tim Costello	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-9-1' (CYG1470-17) Soil Samp	oled: 07/30/15 11:23	Received: 07/30/1	15 16:34						
p-Isopropyltoluene	ND	5.0	µg/kg	1	CY05254	"	08/01/15	EPA 8260B	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	54	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	6.4	5.0		"	"	"	"		
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		111 %	50	-125	"		"	"	
Surrogate: 4-Bromofluorobenzene		105 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		95 %	62	-125	"	"	"	"	
DC-SB-9-5' (CYG1470-18) Soil Samp	oled: 07/30/15 11:24 F	Received: 07/30/1	15 16:34						
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05268	08/01/15	08/01/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"		"	

CA DOHS ELAP Accreditation/Registration Number 1233

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Tetra Tech EM Inc.	Project: Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Rest	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-9-5' (CYG1470-18) Soil	Sampled: 07/30/15 11:24	Received: 07/30/	15 16:34						
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	1	CY05268	"	08/01/15	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"		"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"		"	"	
2-Butanone	ND	100	"	"	"		"	"	
2-Hexanone	ND	50	"	"	"		"	"	
4-Methyl-2-pentanone	ND	50	"	"	"		"	"	
Acetone	ND	100	"	"	"		"	"	
Benzene	ND	5.0	"	"	"		"	"	
Bromobenzene	ND	5.0	"	"	"		"	"	
Bromochloromethane	ND	5.0	"	"	"		"	"	
Bromodichloromethane	ND	5.0	"	"	"		"	"	
Bromoform	ND	5.0	"	"	"		"	"	
Bromomethane	ND	10	"	"	"		"	"	
Carbon tetrachloride	ND	5.0	"	"	"		"	"	
Chlorobenzene	ND	5.0	"		"		"	"	
Chloroethane	ND	5.0	"	"	"		"	"	
Chloroform	ND	5.0	"		"		"	"	
Chloromethane	ND	10	"	"	"		"	"	
cis-1,2-Dichloroethene	6.0	5.0	"	"	"		"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"		"	"	
Dibromochloromethane	ND	5.0	"		"		"	"	
Dibromomethane	ND	5.0	"		"		"	"	
Dichlorodifluoromethane (Freon 1	2) ND	10	"		"		"	"	
Ethylbenzene	ND	5.0	"	"	"		"		

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Tetra Tech EM Inc		Project:	Terramar -5100 Broadway	
2969 Prospect Park	Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, C	A 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-9-5' (CYG1470-18) Soil	Sampled: 07/30/15 11:24	Received: 07/30/	15 16:34						
Hexachlorobutadiene	ND	5.0	µg/kg	1	CY05268	"	08/01/15	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"		
Methylene chloride	ND	20	"	"	"	"	"		
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"		
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"		
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	39	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	8.7	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		84 %	50	-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		101 %	62	-125	"	"	"	"	

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-10-1' (CYG1470-19) Soil Samj	oled: 07/30/15 11:35	Received: 07/30	/15 16:34						
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05268	08/01/15	08/01/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113)									
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"		"	"	"	"	
2-Butanone	ND	100	"		"	"	"	"	
2-Hexanone	ND	50	"		"	"	"	"	
4-Methyl-2-pentanone	ND	50	"		"	"	"	"	
Acetone	ND	100	"		"	"	"	"	
Benzene	ND	5.0	"		"	"	"		
Bromobenzene	ND	5.0	"		"	"	"	"	
Bromochloromethane	ND	5.0	"		"	"	"	"	
Bromodichloromethane	ND	5.0	"		"	"		"	

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resul		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-10-1' (CYG1470-19) Soil	Sampled: 07/30/15 11:35	Received: 07/30	/15 16:34						
Bromoform	ND	5.0	µg/kg	1	CY05268	"	08/01/15	EPA 8260B	
Bromomethane	ND	10	"		"	"	"	"	
Carbon tetrachloride	ND	5.0		"	"	"	"	"	
Chlorobenzene	ND	5.0		"	"	"	"	"	
Chloroethane	ND	5.0		"	"	"	"	"	
Chloroform	ND	5.0		"	"	"	"	"	
Chloromethane	ND	10		"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0			"	"	"		
Dibromochloromethane	ND	5.0			"	"	"		
Dibromomethane	ND	5.0			"	"	"		
Dichlorodifluoromethane (Freon 12)	ND	10			"	"	"		
Ethylbenzene	ND	5.0	"		"	"	"	"	
Hexachlorobutadiene	ND	5.0			"	"	"	"	
Isopropylbenzene	ND	5.0	"		"	"	"		
Methyl tert-butyl ether	ND	5.0	"		"	"	"		
Methylene chloride	ND	20			"	"	"	"	
Naphthalene	ND	5.0			"	"	"	"	
n-Butylbenzene	ND	5.0			"	"	"	"	
n-Propylbenzene	ND	5.0			"	"	"	"	
o-Chlorotoluene	ND	5.0		"	"	"	"	"	
p-Chlorotoluene	ND	5.0		"	"	"	"	"	
p-Isopropyltoluene	ND	5.0		"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"		"	"	"	"	
Styrene	ND	5.0		"	"	"	"	"	
tert-Butylbenzene	ND	5.0		"	"	"	"	"	
Tetrachloroethene	2700	1000	"	200	"	"	"	"	
Toluene	ND	5.0		1	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	
Trichloroethene	5.6	5.0	"	"	"	"	"	"	

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Tetra Tech EM Inc. 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670	Project: Terramar -5100 Broadway Project Number: 117-7429001.06 Project Manager: Tim Costello	CLS Work Order #: CYG1470 COC #:	
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-10-1' (CYG1470-19) Soil S	Sampled: 07/30/15 11:35	Received: 07/30	/15 16:34	1					
Trichlorofluoromethane	ND	5.0	µg/kg	1	CY05268	"	08/01/15	EPA 8260B	
Vinyl chloride	ND	10	"	"	"	"	"		
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		86 %	50)-125	"		"	"	
Surrogate: 4-Bromofluorobenzene		106 %	50)-128	"	"	"	"	
Surrogate: Toluene-d8		100 %	62	2-125	"	"	"	"	
DC-SB-10-5' (CYG1470-20) Soil	Sampled: 07/30/15 11:37	Received: 07/30	/15 16:34	l I					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05268	08/01/15	08/01/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"		
(Freon 113)									
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"		
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,3-Dichloropropane	ND	5.0	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0		"	"		"	"	

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-10-5' (CYG1470-20) Soil Samp	oled: 07/30/15 11:37	Received: 07/30	/15 16:34						
2,2-Dichloropropane	ND	5.0	µg/kg	1	CY05268	"	08/01/15	EPA 8260B	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"		"	"	"	"	
Bromodichloromethane	ND	5.0	"		"	"	"	"	
Bromoform	ND	5.0	"		"	"	"	"	
Bromomethane	ND	10			"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	5.6	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0		"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20		"	"	"	"	"	
Naphthalene	ND	5.0		"	"	"	"	"	
n-Butylbenzene	ND	5.0	"		"	"	"	"	
n-Propylbenzene	ND	5.0		"	"	"	"	"	
o-Chlorotoluene	ND	5.0		"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	

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1,2,3-Trichlorobenzene

1,2,3-Trichloropropane

1,2,4-Trichlorobenzene

1,2,4-Trimethylbenzene

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Tetra Tech EM Inc. 2969 Prospect Park Drive, Suite 100	e e	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-10-5' (CYG1470-20) Soil	Sampled: 07/30/15 11:37	Received: 07/30	/15 16:34						
p-Isopropyltoluene	ND	5.0	µg/kg	1	CY05268	"	08/01/15	EPA 8260B	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"		
tert-Butylbenzene	ND	5.0	"	"	"	"	"		
Tetrachloroethene	1100	100	"	20	"	"	"		
Toluene	ND	5.0	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	12	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		85 %	50	-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		103 %	62	-125	"	"	"	"	
DC-SB-11-1' (CYG1470-21) Soil	Sampled: 07/30/15 11:41	Received: 07/30	/15 16:34	1					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05268	08/01/15	08/01/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"		
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"		"	"	"	"	
(Freon 113) 1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"		
1,1-Dichloroethene	ND	5.0	"		"	"	"		
1,1-Dichloropropene	ND	5.0			"				

CA DOHS ELAP Accreditation/Registration Number 1233

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ſ		-	117-7429001.06	CLS Work Order #: CYG1470
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resul		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-11-1' (CYG1470-21) Soil	Sampled: 07/30/15 11:41	Received: 07/30	/15 16:34						
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	1	CY05268	"	08/01/15	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"		
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,2-Dichloroethane	ND	5.0	"	"	"	"	"		
1,2-Dichloropropane	ND	5.0	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"		
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,3-Dichloropropane	ND	5.0	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"		"	"	
Chloromethane	ND	10	"	"	"		"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"		"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"		"	"	
Dibromochloromethane	ND	5.0	"	"	"		"	"	
Dibromomethane	ND	5.0	"	"	"		"	"	
Dichlorodifluoromethane (Freon 12	2) ND	10	"	"	"		"	"	
Ethylbenzene	ND	5.0	"	"	"		"	"	
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ſ	Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resul	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-11-1' (CYG1470-21) Soil	Sampled: 07/30/15 11:41	Received: 07/30	/15 16:34						
Hexachlorobutadiene	ND	5.0	µg/kg	1	CY05268	"	08/01/15	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"		
Methylene chloride	ND	20	"	"	"	"	"		
Naphthalene	ND	5.0	"	"	"	"	"		
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"		"	"	
sec-Butylbenzene	ND	5.0	"	"	"		"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"		"	"	
Vinyl chloride	ND	10	"	"	"		"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		84 %	50	-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97 %	50	-128	"		"	"	
Surrogate: Toluene-d8		101 %		-125	"		"	"	

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-11-5' (CYG1470-22) Soil Sampled: 07/30/1	15 11:42	Received: 07/30/	/15 16:34						
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05268	08/01/15	08/01/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		"	"	"	"	"	
(Freon 113)									
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"		"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"		"	"	"	"	
1,2,3-Trichloropropane	ND	5.0		"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0		"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10		"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,3-Dichloropropane	ND	5.0		"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"		"	"	"	"	
2-Hexanone	ND	50	"		"		"		
4-Methyl-2-pentanone	ND	50	"		"		"		
Acetone	ND	100	"		"		"		
Benzene	ND	5.0			"		"		
Bromobenzene	ND	5.0			"	"	"	"	
Bromochloromethane	ND	5.0	"		"		"	"	
Bromodichloromethane	ND	5.0			"		"		

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resul	Reporting t Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-11-5' (CYG1470-22) Soil	Sampled: 07/30/15 11:42	Received: 07/30	/15 16:34						
Bromoform	ND	5.0	μg/kg	1	CY05268	"	08/01/15	EPA 8260B	
Bromomethane	ND	10	"	"	"				
Carbon tetrachloride	ND	5.0	"	"	"	"	"		
Chlorobenzene	ND	5.0	"	"	"	"			
Chloroethane	ND	5.0	"	"	"	"			
Chloroform	ND	5.0	"	"	"		"		
Chloromethane	ND	10	"	"	"		"		
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	5.0	"		"	"	"	"	
Dibromochloromethane	ND	5.0	"		"	"	"	"	
Dibromomethane	ND	5.0	"	"	"			"	
Dichlorodifluoromethane (Freon 12) ND	10	"	"	"			"	
Ethylbenzene	ND	5.0	"	"	"		"	"	
Hexachlorobutadiene	ND	5.0	"	"	"		"	"	
Isopropylbenzene	ND	5.0	"	"	"			"	
Methyl tert-butyl ether	ND	5.0	"	"	"			"	
Methylene chloride	ND	20	"		"	"	"	"	
Naphthalene	ND	5.0	"	"	"			"	
n-Butylbenzene	ND	5.0	"	"	"			"	
n-Propylbenzene	ND	5.0	"	"	"			"	
o-Chlorotoluene	ND	5.0	"	"	"		"	"	
p-Chlorotoluene	ND	5.0	"	"	"		"	"	
p-Isopropyltoluene	ND	5.0	"	"	"			"	
sec-Butylbenzene	ND	5.0	"		"	"	"	"	
Styrene	ND	5.0			"		"	"	
tert-Butylbenzene	ND	5.0	"		"		"	"	
Tetrachloroethene	ND	5.0			"		"	"	
Toluene	ND	5.0	"		"		"	"	
trans-1,2-Dichloroethene	ND	5.0	"		"		"		
trans-1,3-Dichloropropene	ND	5.0	"		"		"	"	
Trichloroethene	ND	5.0			"	"	"		

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-11-5' (CYG1470-22) Soil Sampl	ed: 07/30/15 11:42 R	eceived: 07/30	/15 16:34						
Trichlorofluoromethane	ND	5.0	µg/kg	1	CY05268	"	08/01/15	EPA 8260B	
Vinyl chloride	ND	10	"	"	"		"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		80 %	50)-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		104 %	62	-125	"	"	"	"	
DC-SB-12-1' (CYG1470-23) Soil Sampl	led: 07/30/15 11:59 R	Received: 07/30	/15 16:34	L					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05268	08/01/15	08/01/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0		"	"		"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"		"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		"	"		"	"	
(Freon 113)								"	
1,1,2-Trichloroethane	ND	5.0	"		"	"	"		
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0		"	"	"	"	"	
1,1-Dichloropropene	ND	5.0		"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0		"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10		"	"		"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	
1,2-Dichloropropane	ND	5.0		"	"		"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"		"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"		"	"	
1,3-Dichloropropane	ND	5.0	"	"	"		"	"	
1,4-Dichlorobenzene	ND	5.0		"	"			"	

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Tetra Tech EM Inc.	Project: Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-12-1' (CYG1470-23) Soil Sampled: 0	7/30/15 11:59 F	Received: 07/30	/15 16:34						
2,2-Dichloropropane	ND	5.0	µg/kg	1	CY05268	"	08/01/15	EPA 8260B	
2-Butanone	ND	100		"	"	"	"	"	
2-Hexanone	ND	50		"	"	"	"	"	
4-Methyl-2-pentanone	ND	50		"	"	"	"	"	
Acetone	ND	100		"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0		"	"	"	"	"	
Chloroethane	ND	5.0		"	"	"	"	"	
Chloroform	ND	5.0		"	"	"	"	"	
Chloromethane	ND	10		"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0		"	"	"	"	"	
Dibromomethane	ND	5.0		"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10		"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"		"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0		"			"	"	

CALIFORNIA **L**ABORATORY **S**ERVICES

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1,2,3-Trichloropropane

1,2,4-Trichlorobenzene

1,2,4-Trimethylbenzene

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		117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-12-1' (CYG1470-23) Soil	Sampled: 07/30/15 11:59	Received: 07/30	/15 16:34	l .					
p-Isopropyltoluene	ND	5.0	µg/kg	1	CY05268	"	08/01/15	EPA 8260B	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		85 %	50	-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		103 %	62	-125	"	"	"	"	
DC-SB-12-5' (CYG1470-24) Soil	Sampled: 07/30/15 12:00	Received: 07/30	/15 16:34	Ļ					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05268	08/01/15	08/01/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"		
1,1,2-Trichloro-1,2,2-trifluoroethan	e ND	5.0	"	"	"	"	"		
(Freon 113)									
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"		
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"		"	

CA DOHS ELAP Accreditation/Registration Number 1233

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Γ	Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-12-5' (CYG1470-24) Soil	-								
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	1	CY05268	"	08/01/15	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,3-Dichloropropane	ND	5.0		"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0		"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100		"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50		"	"	"	"	"	
Acetone	ND	100		"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"		"	
Bromobenzene	ND	5.0		"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"		"	
Bromoform	ND	5.0		"	"	"	"	"	
Bromomethane	ND	10		"	"	"	"	"	
Carbon tetrachloride	ND	5.0		"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"		"	
Chloroethane	ND	5.0		"	"	"	"	"	
Chloroform	ND	5.0	"		"	"	"	"	
Chloromethane	ND	10	"		"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"		"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"		"	"	"	"	
Dibromochloromethane	ND	5.0	"		"	"	"		
Dibromomethane	ND	5.0	"		"	"	"		
Dichlorodifluoromethane (Freon 12)		10	"		"	"	"		
Ethylbenzene	ND	5.0						"	

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Tetra	Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969	Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Ranc	ho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-12-5' (CYG1470-24) Soil	Sampled: 07/30/15 12:00	Received: 07/30	/15 16:34	ļ					
Hexachlorobutadiene	ND	5.0	µg/kg	1	CY05268	"	08/01/15	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"		
Methylene chloride	ND	20	"	"	"	"	"		
Naphthalene	ND	5.0	"	"	"	"	"		
n-Butylbenzene	ND	5.0	"	"	"	"	"		
n-Propylbenzene	ND	5.0	"	"	"	"	"		
o-Chlorotoluene	ND	5.0	"	"	"	"	"		
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"		
sec-Butylbenzene	ND	5.0	"	"	"	"	"		
Styrene	ND	5.0	"	"	"	"	"		
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"		
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		92 %	50	-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		102 %	62	-125	"	"	"	"	

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-13-1' (CYG1470-25) Soil Sa	ampled: 07/30/15 12:06		/15 16:34						
1,1,1,2-Tetrachloroethane	ND	5.0	$\mu g/kg$	1	CY05268	08/01/15	08/01/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113)		5.0				"	"	"	
1,1,2-Trichloroethane	ND	5.0							
1,1-Dichloroethane	ND	5.0				"		"	
1,1-Dichloroethene	ND	5.0		"		"		"	
1,1-Dichloropropene	ND	5.0			"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0			"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"			"			
1,2,4-Trichlorobenzene	ND	5.0	"		"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"		"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"		"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"		"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0		"	"	"	"	"	
2-Butanone	ND	100		"	"	"	"	"	
2-Hexanone	ND	50		"	"	"	"	"	
4-Methyl-2-pentanone	ND	50		"	"	"	"	"	
Acetone	ND	100		"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0		"	"	"	"	"	
Bromodichloromethane	ND	5.0		"	"	"	"	"	

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-13-1' (CYG1470-25) Soil	Sampled: 07/30/15 12:06	Received: 07/30	/15 16:34						
Bromoform	ND	5.0	µg/kg	1	CY05268	"	08/01/15	EPA 8260B	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"		"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"		"	"	"	"	
Dibromochloromethane	ND	5.0		"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"		"		"	"	
Styrene	ND	5.0	"		"	"	"	"	
tert-Butylbenzene	ND	5.0	"		"		"	"	
Tetrachloroethene	ND	5.0			"		"	"	
Toluene	ND	5.0	"		"		"	"	
trans-1,2-Dichloroethene	ND	5.0	"		"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"		"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	

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	-	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-13-1' (CYG1470-25) Soil	Sampled: 07/30/15 12:06	Received: 07/30	/15 16:34	1		•	-		
Trichlorofluoromethane	ND	5.0	μg/kg	1	CY05268	"	08/01/15	EPA 8260B	
Vinyl chloride	ND	10	"	"	"		"		
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		95 %	50)-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		104 %	62	-125	"	"	"	"	
DC-SB-13-5' (CYG1470-26) Soil	Sampled: 07/30/15 12:07	Received: 07/30	/15 16:34	4					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05268	08/01/15	08/01/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"		
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"		
(Freon 113) 1,1,2-Trichloroethane	ND	5.0		"			"	"	
1,1-Dichloroethane	ND	5.0			"		"		
1,1-Dichloroethene	ND	5.0			"		"		
1,1-Dichloropropene	ND	5.0			"		"		
1,2,3-Trichlorobenzene	ND	5.0	"	"	"		"		
1,2,3-Trichloropropane	ND	5.0	"	"	"		"		
1,2,4-Trichlorobenzene	ND	5.0	"	"	"		"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"		"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"		"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"		"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"		
1,2-Dichloropropane	ND	5.0	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"		
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	

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ſ	Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

2-ButanoneND10011111112-HexanoneND505055<	Analyte	Resul		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
2-Butanone ND 100 *<	DC-SB-13-5' (CYG1470-26) Soil	Sampled: 07/30/15 12:07	Received: 07/30	/15 16:34	ŀ					
Advectorie ND 50 * <t< td=""><td>2,2-Dichloropropane</td><td>ND</td><td>5.0</td><td>µg/kg</td><td>1</td><td>CY05268</td><td>"</td><td>08/01/15</td><td>EPA 8260B</td><td></td></t<>	2,2-Dichloropropane	ND	5.0	µg/kg	1	CY05268	"	08/01/15	EPA 8260B	
A-Methyl-2-pentanoneND50** <th< td=""><td>2-Butanone</td><td>ND</td><td>100</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td></td></th<>	2-Butanone	ND	100	"	"	"	"	"	"	
Name No N	2-Hexanone	ND	50	"	"	"	"	"	"	
BenzeneND5.0""	4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
BromobenzeneND5.0'''	Acetone	ND	100	"	"	"	"	"	"	
BromochloromethaneND5.0''	Benzene	ND	5.0	"	"	"	"	"		
Bromodindomentation ND S0 "	Bromobenzene	ND	5.0	"	"	"	"	"		
BromoformND5.0""" <th< td=""><td>Bromochloromethane</td><td>ND</td><td>5.0</td><td></td><td>"</td><td>"</td><td>"</td><td>"</td><td></td><td></td></th<>	Bromochloromethane	ND	5.0		"	"	"	"		
BromomethaneND10	Bromodichloromethane	ND	5.0	"	"	"	"	"		
Carbon tetrachloride ND 5.0 " <td>Bromoform</td> <td>ND</td> <td>5.0</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td> <td></td>	Bromoform	ND	5.0	"	"	"	"	"		
ChlorobenzeneND5.0""" <td>Bromomethane</td> <td>ND</td> <td>10</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	Bromomethane	ND	10	"	"	"	"	"	"	
ChloroethaneND5.0"""	Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
ChloroformND5.0""" <t< td=""><td>Chlorobenzene</td><td>ND</td><td>5.0</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td></td></t<>	Chlorobenzene	ND	5.0	"	"	"	"	"	"	
ChloromethaneND10"""	Chloroethane	ND	5.0	"	"	"	"	"		
Chilomethane ND 10 ND 10 ND	Chloroform	ND	5.0	"	"	"	"	"	"	
cis-1,3-DichloropropeneND5.0"" <td>Chloromethane</td> <td>ND</td> <td>10</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	Chloromethane	ND	10	"	"	"	"	"	"	
DibromochloromethaneND5.0"""<"""""""""""""""""""""""<	cis-1,2-Dichloroethene	8.5	5.0	"	"	"	"	"	"	
Dibromomethane ND 5.0 "	cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)ND10""" <td>Dibromochloromethane</td> <td>ND</td> <td>5.0</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
EthylbenzeneND5.0""""""""HexachlorobutadieneND5.0""""""""IsopropylbenzeneND5.0"""""""""Methyl tert-butyl etherND5.0"""""""""Methylene chlorideND20"""""""""NaphthaleneND5.0""" <td>Dibromomethane</td> <td>ND</td> <td>5.0</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	Dibromomethane	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene ND 5.0 " <td>Dichlorodifluoromethane (Freon 12)</td> <td>ND</td> <td>10</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Instantion obtainedND5.0"" <th< td=""><td>Ethylbenzene</td><td>ND</td><td>5.0</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td></td></th<>	Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether ND 5.0 " </td <td>Hexachlorobutadiene</td> <td>ND</td> <td>5.0</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Methylene chloride ND 20 "	Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Naphthalene ND 5.0 "	Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene ND 5.0 " " " " " n-Propylbenzene ND 5.0 " " " " " o-Chlorotoluene ND 5.0 " " " " "	Methylene chloride	ND	20	"	"	"	"	"	"	
n-Propylbenzene ND 5.0 " " " " " " " " " o-Chlorotoluene ND 5.0 " " " " " " "	Naphthalene	ND	5.0	"	"	"	"	"		
o-Chlorotoluene ND 5.0 " " " " " "	n-Butylbenzene	ND	5.0	"	"		"	"		
	n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene ND 5.0 " " " " " "	o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
	p-Chlorotoluene	ND	5.0	"	"	"	"	"		

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Rancho Cordova, CA 95670Project Manager: Tim CostelloCOC #:	Tallele Villagel. The Costene			Project Number:	117-7429001.06	CLS Work Order #: CYG1470 COC #:
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-13-5' (CYG1470-26) Soil	Sampled: 07/30/15 12:07	Received: 07/30	/15 16:34	ļ					
p-Isopropyltoluene	ND	5.0	µg/kg	1	CY05268	"	08/01/15	EPA 8260B	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"		
Tetrachloroethene	ND	5.0	"	"	"	"	"		
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	8.6	5.0	"	"	"	"	"		
Trichlorofluoromethane	ND	5.0	"	"	"	"	"		
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		94 %	50	-125	"		"	"	
Surrogate: 4-Bromofluorobenzene		92 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		102 %	62	-125	"	"	"	"	
DC-SB-14-1' (CYG1470-27) Soil	Sampled: 07/30/15 12:17	Received: 07/30	/15 16:34	Ļ					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY05268	08/01/15	08/01/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"		
1,1,2-Trichloro-1,2,2-trifluoroethar	ne ND	5.0	"	"	"	"	"		
(Freon 113) 1,1,2-Trichloroethane	ND	5.0		"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"		"	"	"		
1,1-Dichloroethene	ND	5.0	"		"	"	"		

1,1-Dichloroethane	ND	5.0	"	"		"	"	"
1,1-Dichloroethene	ND	5.0	"		"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0	"		"	"	"	"
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0	"		"	"	"	"

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Γ	Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-14-1' (CYG1470-27) Soil	Sampled: 07/30/15 12:17	Received: 07/30	/15 16:34						
1,2-Dibromo-3-chloropropane	ND	10	$\mu g/kg$	1	CY05268	"	08/01/15	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"		"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"		"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0			"	"	"	"	
Dibromochloromethane	ND	5.0			"	"	"	"	
Dibromomethane	ND	5.0			"	"	"	"	
Dichlorodifluoromethane (Freon 12) ND	10			"	"	"	"	
Ethylbenzene	ND	5.0		"	"	"		"	

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ſ	Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-14-1' (CYG1470-27) Soil	Sampled: 07/30/15 12:17	Received: 07/30	/15 16:34						
Hexachlorobutadiene	ND	5.0	µg/kg	1	CY05268	"	08/01/15	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"		
Tetrachloroethene	ND	5.0	"	"	"	"	"		
Toluene	ND	5.0	"		"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"		"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"		
Trichloroethene	ND	5.0	"	"	"	"	"		
Trichlorofluoromethane	ND	5.0	"	"	"	"	"		
Vinyl chloride	ND	10	"		"	"	"		
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		89 %	50	-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93 %	50	-128	"		"	"	
Surrogate: Toluene-d8		102 %		-125	"		"	"	

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

DC-SR-14-5' (CVC1470-28) Soil Sampled: 197/30/15 12:18 Received: 07/30/15	Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ND 5.0 " " " " " " " 1,1,2,2-Tetrachloroethane ND 5.0 "	DC-SB-14-5' (CYG1470-28) Soil	Sampled: 07/30/15 12:18	Received: 07/30	/15 16:34						
1,1,2,2-TetrachloroethaneND5.0"" </td <td>1,1,1,2-Tetrachloroethane</td> <td>ND</td> <td></td> <td>µg/kg</td> <td>1</td> <td>CY05268</td> <td>08/01/15</td> <td>08/01/15</td> <td>EPA 8260B</td> <td></td>	1,1,1,2-Tetrachloroethane	ND		µg/kg	1	CY05268	08/01/15	08/01/15	EPA 8260B	
1.1.2Trichloroethane ND 5.0 "<	1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
(1)2-Trichloroethane ND 5.0 " <td>1,1,2,2-Tetrachloroethane</td> <td>ND</td> <td>5.0</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane ND 5.0 " </td <td>1,1,2-Trichloro-1,2,2-trifluoroethane</td> <td>ND</td> <td>5.0</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1.1-Dichloroethane ND 5.0 "										
1.1-Dichloroethene ND 5.0 "							"			
1,1-Dichlorodrafter ND 5.0 " <td></td>										
1,2,3-Trichlorophezene ND 5.0 "<							"			
1,2,3-Trichloropropane ND 5.0 "<							"	"	"	
1.2.4-Trichloroberzene ND 5.0 "<				"	"	"	"	"	"	
1.2.4-TrimethylbenzeneND5.0""	1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane ND 10 " <t< td=""><td>1,2,4-Trichlorobenzene</td><td>ND</td><td>5.0</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td></td></t<>	1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB) ND 5.0 "	1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene ND 5.0 " <td>1,2-Dibromo-3-chloropropane</td> <td>ND</td> <td>10</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane ND 5.0 "	1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-DichloropropaneND5.0"" <th< td=""><td>1,2-Dichlorobenzene</td><td>ND</td><td>5.0</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td></td></th<>	1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene ND 5.0 "<	1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene ND 5.0 " <td>1,2-Dichloropropane</td> <td>ND</td> <td>5.0</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-DichloropropaneND5.0""""""""1,4-DichlorobenzeneND5.0""""""""2,2-DichloropropaneND5.0""""""""2-ButanoneND100""""""""2-HexanoneND50"""""""4-Methyl-2-pentanoneND50"""""""AcetoneND100"""""""	1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene ND 5.0 " <td>1,3-Dichlorobenzene</td> <td>ND</td> <td>5.0</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-DichloropropaneND5.0"""""""2-ButanoneND100""""""""2-HexanoneND50""""""""4-Methyl-2-pentanoneND50""""""""AcetoneND100""""""""	1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-DichloropropaneND5.0"""""""2-ButanoneND100""""""""2-HexanoneND50""""""""4-Methyl-2-pentanoneND50""""""""AcetoneND100""""""""	1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2-Butanone ND 100 " <	2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
4-Methyl-2-pentanone ND 50 " <td></td> <td></td> <td>100</td> <td></td> <td></td> <td></td> <td>"</td> <td>"</td> <td>"</td> <td></td>			100				"	"	"	
4-Methyl-2-pentanone ND 50 " " " " " " " Acetone ND 100 " " " " " " " "	2-Hexanone	ND	50			"	"	"		
Acetone ND 100 " " " " " "						"		"		
	5 1	ND	100			"		"		
Benzene ND 5.0 " " " " " " "	Benzene	ND	5.0					"	"	
Bromobenzene ND 5.0 " " " " " "								"		
Bromochloromethane ND 5.0 " " " " "								"		
Bromodichloromethane ND 5.0 " " " " " "								"		

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Tetra Tech EM Inc.	Project:	Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-14-5' (CYG1470-28) Soil S	Sampled: 07/30/15 12:18	Received: 07/30	/15 16:34						
Bromoform	ND	5.0	µg/kg	1	CY05268	"	08/01/15	EPA 8260B	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"		"	"	"	"	
Dibromochloromethane	ND	5.0	"		"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"		"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0			"	"	"	"	
Styrene	ND	5.0	"				"	"	
tert-Butylbenzene	ND	5.0		"	"	"	"	"	
Tetrachloroethene	ND	5.0	"				"	"	
Toluene	ND	5.0			"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0			"		"	"	
trans-1,3-Dichloropropene	ND	5.0	"		"		"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	

CALIFORNIA **L**ABORATORY **S**ERVICES

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		Project: Project Number: Project Manager:	117-7429001.06	CLS Work Order #: CYG1470 COC #:
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-14-5' (CYG1470-28) Soil	Sampled: 07/30/15 12:18 Re	eceived: 07/30	/15 16:34						
Trichlorofluoromethane	ND	5.0	µg/kg	1	CY05268	"	08/01/15	EPA 8260B	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		88 %	50-1	125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	50-1	128	"	"	"	"	
Surrogate: Toluene-d8		104 %	62-1	125	"	"	"	"	

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08/03/15 13:59

Tetra Tech EM Inc.	Project: Terramar -5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CY05254 - EPA 5030 Soil MS										
Blank (CY05254-BLK1)				Prepared &	à Analyzed:	07/31/15				
Acetone	ND	100	µg/kg							
Benzene	ND	5.0	"							
Bromobenzene	ND	5.0	"							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	10								
2-Butanone	ND	100								
n-Butylbenzene	ND	5.0								
ec-Butylbenzene	ND	5.0								
ert-Butylbenzene	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0								
Chloroform	ND	5.0	"							
Chloromethane	ND	10	"							
o-Chlorotoluene	ND	5.0								
o-Chlorotoluene	ND	5.0								
Dibromochloromethane	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	10	"							
1,2-Dibromoethane (EDB)	ND	5.0								
Dibromomethane	ND	5.0								
,2-Dichlorobenzene	ND	5.0	"							
,3-Dichlorobenzene	ND	5.0	"							
,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane (Freon 12)	ND	10	"							
,1-Dichloroethane	ND	5.0	"							
,2-Dichloroethane	ND	5.0								
,1-Dichloroethene	ND	5.0								
is-1,2-Dichloroethene	ND	5.0	"							
rans-1,2-Dichloroethene	ND	5.0								

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Tetra Tech EM Inc. 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670	Project: Terramar -5100 Broadway Project Number: 117-7429001.06 Project Manager: Tim Costello	CLS Work Order #: CYG1470 COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CY05254 - EPA 5030 Soil MS										
Blank (CY05254-BLK1)				Prepared &	k Analyzed:	07/31/15				
1,2-Dichloropropane	ND	5.0	µg/kg							
1,3-Dichloropropane	ND	5.0	"							
2,2-Dichloropropane	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
2-Hexanone	ND	50	"							
Isopropylbenzene	ND	5.0	"							
p-Isopropyltoluene	ND	5.0	"							
Methylene chloride	ND	20	"							
4-Methyl-2-pentanone	ND	50	"							
Methyl tert-butyl ether	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
Toluene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							

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Tetra Tech EM Inc.	Project: Terramar -5100 Broadway	y
2969 Prospect Park Drive, Suite 100	Project Number: 117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CY05254 - EPA 5030 Soil MS										
Blank (CY05254-BLK1)				Prepared &	Analyzed:	07/31/15				
1,2,4-Trimethylbenzene	ND	5.0	µg/kg							
Vinyl chloride	ND	10	"							
Xylenes (total)	ND	10	"							
Surrogate: 1,2-Dichloroethane-d4	29.3		"	30.0		98	50-125			
Surrogate: Toluene-d8	27.8		"	30.0		93	62-125			
Surrogate: 4-Bromofluorobenzene	30.6		"	30.0		102	50-128			
LCS (CY05254-BS1)				Prepared &	Analyzed:	07/31/15				
Benzene	21.2	5.0	µg/kg	20.0		106	64-135			
Chlorobenzene	20.1	5.0	"	20.0		101	67-133			
1,1-Dichloroethene	19.0	5.0	"	20.0		95	53-137			
Toluene	19.8	5.0	"	20.0		99	61-138			
Trichloroethene	21.2	5.0		20.0		106	64-130			
Surrogate: 1,2-Dichloroethane-d4	30.3		"	30.0		101	50-125			
Surrogate: Toluene-d8	28.5		"	30.0		95	62-125			
Surrogate: 4-Bromofluorobenzene	28.7		"	30.0		96	50-128			
LCS Dup (CY05254-BSD1)				Prepared &	Analyzed:	07/31/15				
Benzene	20.9	5.0	µg/kg	20.0		105	64-135	1	30	
Chlorobenzene	20.4	5.0	"	20.0		102	67-133	1	30	
I,1-Dichloroethene	19.3	5.0	"	20.0		96	53-137	1	30	
Toluene	19.9	5.0		20.0		99	61-138	0.1	30	
Trichloroethene	21.5	5.0	"	20.0		107	64-130	1	30	
Surrogate: 1,2-Dichloroethane-d4	28.3		"	30.0		94	50-125			
Surrogate: Toluene-d8	29.1		"	30.0		97	62-125			
Surrogate: 4-Bromofluorobenzene	31.1		"	30.0		104	50-128			
Matrix Spike (CY05254-MS1)	Sou	rce: CYG147()-01	Prepared: ()7/31/15 Ai	nalyzed: 08	/01/15			
Benzene	18.8	5.0	µg/kg	20.0	ND	94	58-139			
Chlorobenzene	17.7	5.0	"	20.0	ND	89	62-134			

CA DOHS ELAP Accreditation/Registration Number 1233

5.0

5.0

"

"

20.0

20.0

ND

ND

93

93

53-152

58-139

18.5

18.7

1,1-Dichloroethene

Toluene

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	-	117-7429001.06	CLS Work Order #: CYG1470
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CY05254 - EPA 5030 Soil MS										
Matrix Spike (CY05254-MS1)	Source	e: CYG1470	-01	Prepared: (07/31/15 A	nalyzed: 08	/01/15			
Trichloroethene	30.0	5.0	µg/kg	20.0	4.85	126	55-138			
Surrogate: 1,2-Dichloroethane-d4	23.7		"	30.0		79	50-125			
Surrogate: Toluene-d8	30.6		"	30.0		102	62-125			
Surrogate: 4-Bromofluorobenzene	31.4		"	30.0		105	50-128			
Matrix Spike Dup (CY05254-MSD1)	Source	e: CYG1470	-01	Prepared: (07/31/15 A	nalyzed: 08	/01/15			
Benzene	18.6	5.0	µg/kg	20.0	ND	93	58-139	1	30	
Chlorobenzene	16.9	5.0	"	20.0	ND	84	62-134	5	30	
1,1-Dichloroethene	18.0	5.0	"	20.0	ND	90	53-152	3	30	
Toluene	18.7	5.0	"	20.0	ND	93	58-139	0.1	30	
Trichloroethene	39.8	5.0	"	20.0	4.85	175	55-138	28	30	QM-
Surrogate: 1,2-Dichloroethane-d4	24.2		"	30.0		81	50-125			
Surrogate: Toluene-d8	31.2		"	30.0		104	62-125			
Surrogate: 4-Bromofluorobenzene	32.4		"	30.0		108	50-128			

Batch CY05268 - EPA 5030 Soil MS

Blank (CY05268-BLK1)				Prepared & Analyzed: 08/01
Acetone	ND	100	µg/kg	
Benzene	ND	5.0	"	
Bromobenzene	ND	5.0	"	
Bromochloromethane	ND	5.0	"	
Bromodichloromethane	ND	5.0	"	
Bromoform	ND	5.0	"	
Bromomethane	ND	10	"	
2-Butanone	ND	100	"	
n-Butylbenzene	ND	5.0	"	
sec-Butylbenzene	ND	5.0	"	
tert-Butylbenzene	ND	5.0	"	
Carbon tetrachloride	ND	5.0	"	
Chlorobenzene	ND	5.0	"	
Chloroethane	ND	5.0	"	

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Tetra Tech EM Inc. 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670	Project: Terramar -5100 Broadway Project Number: 117-7429001.06 Project Manager: Tim Costello	CLS Work Order #: CYG1470 COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

				G 1			MARC		DDD	
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CY05268 - EPA 5030 Soil MS										
Blank (CY05268-BLK1)				Prepared &	& Analyzed:	08/01/15				
Chloroform	ND	5.0	µg/kg							
Chloromethane	ND	10	"							
o-Chlorotoluene	ND	5.0	"							
p-Chlorotoluene	ND	5.0	"							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	10								
1,2-Dibromoethane (EDB)	ND	5.0	"							
Dibromomethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
Dichlorodifluoromethane (Freon 12)	ND	10								
1,1-Dichloroethane	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
trans-1,2-Dichloroethene	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3-Dichloropropane	ND	5.0								
2,2-Dichloropropane	ND	5.0								
1,1-Dichloropropene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Ethylbenzene	ND	5.0								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0								
Hexachlorobutadiene	ND	5.0								
2-Hexanone	ND	50								
Isopropylbenzene	ND	5.0								
p-Isopropyltoluene	ND	5.0								
Methylene chloride	ND	20	"							

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Tetra Tech EM Inc. 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670	Project: Terramar -5100 Broadway Project Number: 117-7429001.06 Project Manager: Tim Costello	CLS Work Order #: CYG1470 COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CY05268 - EPA 5030 Soil MS										
Blank (CY05268-BLK1)				Prepared &	k Analyzed:	08/01/15				
4-Methyl-2-pentanone	ND	50	µg/kg							
Methyl tert-butyl ether	ND	5.0								
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0								
Styrene	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
Toluene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
Trichloroethene	ND	5.0								
Trichlorofluoromethane	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
Vinyl chloride	ND	10								
Xylenes (total)	ND	10	"							
Surrogate: 1,2-Dichloroethane-d4	24.5		"	30.0		82	50-125			
Surrogate: Toluene-d8	30.3		"	30.0		101	62-125			
Surrogate: 4-Bromofluorobenzene	28.6		"	30.0		95	50-128			
LCS (CY05268-BS1)				Prepared &	k Analyzed:	08/01/15				
Benzene	17.5	5.0	µg/kg	20.0		88	64-135			
Chlorobenzene	17.7	5.0		20.0		88	67-133			
1,1-Dichloroethene	18.9	5.0	"	20.0		94	53-137			
Toluene	18.4	5.0		20.0		92	61-138			
Trichloroethene	17.6	5.0	"	20.0		88	64-130			
Surrogate: 1,2-Dichloroethane-d4	26.6		"	30.0		89	50-125			

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Tetra Tech EM Inc. 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670	Project: Terramar -5100 Broadway Project Number: 117-7429001.06 Project Manager: Tim Costello	CLS Work Order #: CYG1470 COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CY05268 - EPA 5030 Soil MS										
LCS (CY05268-BS1)				Prepared &	Analyzed:	08/01/15				
Surrogate: Toluene-d8	31.1		µg/kg	30.0		104	62-125			
Surrogate: 4-Bromofluorobenzene	33.1		"	30.0		110	50-128			
LCS Dup (CY05268-BSD1)				Prepared &	Analyzed:	08/01/15				
Benzene	17.9	5.0	µg/kg	20.0		90	64-135	2	30	
Chlorobenzene	18.9	5.0	"	20.0		94	67-133	7	30	
1,1-Dichloroethene	16.7	5.0		20.0		84	53-137	12	30	
Toluene	18.9	5.0	"	20.0		94	61-138	3	30	
Trichloroethene	18.4	5.0	"	20.0		92	64-130	5	30	
Surrogate: 1,2-Dichloroethane-d4	24.0		"	30.0		80	50-125			
Surrogate: Toluene-d8	30.9		"	30.0		103	62-125			
Surrogate: 4-Bromofluorobenzene	30.0		"	30.0		100	50-128			
Matrix Spike (CY05268-MS1)	Sou	rce: CYG147)-21	Prepared &	Analyzed:	08/01/15				
Benzene	17.5	5.0	µg/kg	20.0	ND	87	58-139			
Chlorobenzene	17.3	5.0	"	20.0	ND	86	62-134			
1,1-Dichloroethene	17.7	5.0	"	20.0	ND	89	53-152			
Toluene	18.6	5.0	"	20.0	ND	93	58-139			
Frichloroethene	22.9	5.0	"	20.0	ND	114	55-138			
Surrogate: 1,2-Dichloroethane-d4	23.5		"	30.0		78	50-125			
Surrogate: Toluene-d8	31.9		"	30.0		106	62-125			
Surrogate: 4-Bromofluorobenzene	20.9		"	30.0		70	50-128			
Matrix Spike Dup (CY05268-MSD1)	Sou	rce: CYG147()-21	Prepared &	Analyzed:	08/01/15				
Benzene	17.2	5.0	µg/kg	20.0	ND	86	58-139	2	30	
Chlorobenzene	18.0	5.0	"	20.0	ND	90	62-134	4	30	
,1-Dichloroethene	17.6	5.0	"	20.0	ND	88	53-152	0.6	30	
Toluene	18.3	5.0	"	20.0	ND	92	58-139	2	30	
Frichloroethene	21.5	5.0	"	20.0	ND	107	55-138	6	30	
Surrogate: 1,2-Dichloroethane-d4	25.9		"	30.0		86	50-125			
Surrogate: Toluene-d8	32.1		"	30.0		107	62-125			

CALIFORNIA **L**ABORATORY **S**ERVICES

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Tetra Tech EM Inc. 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670	Project: Terramar -5100 Broadway Project Number: 117-7429001.06 Project Manager: Tim Costello	CLS Work Order #: CYG1470 COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CY05268 - EPA 5030 Soil MS										
Matrix Spike Dup (CY05268-MSD1)	Sour	ce: CYG147()-21	Prepared &	Analyzed:	08/01/15				
Surrogate: 4-Bromofluorobenzene	21.4		µg/kg	30.0		71	50-128			

CALIFORNIA **L**ABORATORY **S**ERVICES

Page 78	of 78		08/03/15 13:59
2969 Pro	ch EM Inc. ospect Park Drive, Suite 100 Cordova, CA 95670	Project: Terramar -5100 E Project Number: 117-7429001.06 Project Manager: Tim Costello	Broadway CLS Work Order #: CYG1470 COC #:
		Notes and Definitions	
QM-7	The spike recovery was outside acceptance LCS/LCSD recovery.	limits for the MS and/or MSD. The batch was accept	oted based on acceptable
DET	Analyte DETECTED		
ND	Analyte NOT DETECTED at or above the reporti	ng limit (or method detection limit when specified)	
NR	Not Reported		
dry	Sample results reported on a dry weight basis		
RPD	Relative Percent Difference		



8/12/2015 Mr. Garrett Kuhl Tetra Tech - GEO 2969 Prospect Park Suite 100 Rancho Cordova CA 95670

Project Name: TERRAMAR-5100 BROADWAY Project #: 117-7429001.06 Workorder #: 1508037A

Dear Mr. Garrett Kuhl

The following report includes the data for the above referenced project for sample(s) received on 8/4/2015 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Killy Butte

Kelly Buettner Project Manager

A Eurofins Lancaster Laboratories Company

180 Blue Ravine Road, Suite B Folsom, CA 95630



WORK ORDER #: 1508037A

Work Order Summary

CLIENT:	Mr. Garrett Kuhl	BILL TO:	Mr. Garrett Kuhl
	Tetra Tech - GEO		Tetra Tech - GEO
	2969 Prospect Park		2969 Prospect Park
	Suite 100		Suite 100
	Rancho Cordova, CA 95670		Rancho Cordova, CA 95670
PHONE:	916-853-1800	P.O. #	
FAX:	916-853-1860	PROJECT #	117-7429001.06 TERRAMAR-5100
DATE RECEIVED:	08/04/2015	CONTACT:	BROADWAY Kelly Buettner
DATE COMPLETED:	08/12/2015	contact.	Keny Buculer

			RECEIPT	FINAL
FRACTION #	NAME	<u>TEST</u>	VAC./PRES.	PRESSURE
01A	DC-VMP-2-5'	TO-15	2.4 "Hg	15 psi
02A	DC-VMP-3-5'	TO-15	3.7 "Hg	15 psi
03A	DC-VMP-4-5'	TO-15	3.9 "Hg	15 psi
04A	DC-VMP-5-5'	TO-15	2.2 "Hg	15.3 psi
05A	DC-VMP-6-5'	TO-15	4.3 "Hg	15 psi
06A	DC-VMP-7-5'	TO-15	3.9 "Hg	15.1 psi
07A	DC-VMP-8-5'	TO-15	3.7 "Hg	14.9 psi
08A	Lab Blank	TO-15	NA	NA
08B	Lab Blank	TO-15	NA	NA
08C	Lab Blank	TO-15	NA	NA
09A	CCV	TO-15	NA	NA
09B	CCV	TO-15	NA	NA
09C	CCV	TO-15	NA	NA
10A	LCS	TO-15	NA	NA
10AA	LCSD	TO-15	NA	NA
10B	LCS	TO-15	NA	NA
10BB	LCSD	TO-15	NA	NA
10C	LCS	TO-15	NA	NA
10CC	LCSD	TO-15	NA	NA

CERTIFIED BY:

lau

DATE: <u>08/12/15</u>

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015. Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563 (916) 985-1000. (800) 985-5955. FAX (916) 985-1020



LABORATORY NARRATIVE EPA Method TO-15 Tetra Tech - GEO Workorder# 1508037A

Seven 1 Liter Summa Canister samples were received on August 04, 2015. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples DC-VMP-2-5', DC-VMP-3-5', DC-VMP-4-5', DC-VMP-5-5', DC-VMP-6-5', and DC-VMP-8-5' due to the presence of high level target species.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Summary of Detected Compounds EPA METHOD TO-15 GC/MS

Client Sample ID: DC-VMP-2-5'

Lab ID#: 1508037A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	55	120	270	600
Vinyl Chloride	55	3200	140	8100
1,1-Dichloroethene	55	170	220	680
trans-1,2-Dichloroethene	55	580	220	2300
cis-1,2-Dichloroethene	55	30000	220	120000
Trichloroethene	55	24000	300	130000
Tetrachloroethene	55	12000	370	85000
m,p-Xylene	55	63	240	280

Client Sample ID: DC-VMP-3-5'

Lab ID#: 1508037A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.8	16	28	79
Vinyl Chloride	5.8	12	15	30
Carbon Disulfide	23	25	72	77
cis-1,2-Dichloroethene	5.8	1100	23	4400
Tetrahydrofuran	5.8	9.1	17	27
Chloroform	5.8	21	28	100
Cyclohexane	5.8	11	20	37
Benzene	5.8	11	18	34
Trichloroethene	5.8	750	31	4000
Toluene	5.8	100	22	380
Tetrachloroethene	5.8	1600	39	11000
Ethyl Benzene	5.8	18	25	80
m,p-Xylene	5.8	65	25	280
o-Xylene	5.8	28	25	120
4-Ethyltoluene	5.8	17	28	83
1,3,5-Trimethylbenzene	5.8	8.4	28	41
1,2,4-Trimethylbenzene	5.8	15	28	74



Summary of Detected Compounds EPA METHOD TO-15 GC/MS

Client Sample ID: DC-VMP-4-5'

Lab ID#: 1508037A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	14	17	51	61
cis-1,2-Dichloroethene	14	640	57	2600
Chloroform	14	180	71	870
Trichloroethene	14	7600	78	41000
Tetrachloroethene	14	8000	98	54000

Client Sample ID: DC-VMP-5-5'

Lab ID#: 1508037A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	14	400	68	2000
Vinyl Chloride	14	2800	35	7100
1,1-Dichloroethene	14	72	54	280
trans-1,2-Dichloroethene	14	350	54	1400
Hexane	14	53	48	190
cis-1,2-Dichloroethene	14	6100	54	24000
Cyclohexane	14	78	47	270
Trichloroethene	14	7200	74	39000
Tetrachloroethene	14	6600	93	45000

Client Sample ID: DC-VMP-6-5'

Lab ID#: 1508037A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	3700	5000	9400	13000
cis-1,2-Dichloroethene	3700	16000	15000	65000
Trichloroethene	3700	18000	20000	99000
Tetrachloroethene	3700	2800000	25000	1900000

Client Sample ID: DC-VMP-7-5'

Lab ID#: 1508037A-06A



Summary of Detected Compounds EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: DC-VMP-7-5'

Lab ID#: 1508037A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	2.4	5.8	12
Ethanol	4.7	9.2	8.8	17
Acetone	12	22	28	53
Chloroform	1.2	33	5.7	160
Toluene	1.2	1.5	4.4	5.6
Tetrachloroethene	1.2	21	7.9	140

Client Sample ID: DC-VMP-8-5'

Lab ID#: 1508037A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	12	670	57	3300
Vinyl Chloride	12	2400	29	6100
1,1-Dichloroethene	12	14	46	55
trans-1,2-Dichloroethene	12	96	46	380
Hexane	12	25	40	89
cis-1,2-Dichloroethene	12	1900	46	7400
Cyclohexane	12	27	40	93
Trichloroethene	12	130	62	720
Tetrachloroethene	12	56	78	380



Client Sample ID: DC-VMP-2-5' Lab ID#: 1508037A-01A EPA METHOD TO-15 GC/MS

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File Name: Dil. Factor:	14081007 11.0			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	55	120	270	600
Freon 114	55	Not Detected	380	Not Detected
Chloromethane	220	Not Detected	450	Not Detected
Vinyl Chloride	55	3200	140	8100
1,3-Butadiene	55	Not Detected	120	Not Detected
Bromomethane	55	Not Detected	210	Not Detected
Chloroethane	220	Not Detected	580	Not Detected
Freon 11	55	Not Detected	310	Not Detected
Ethanol	220	Not Detected	410	Not Detected
Freon 113	55	Not Detected	420	Not Detected
1,1-Dichloroethene	55	170	220	680
Acetone	220	Not Detected	520	Not Detected
2-Propanol	220	Not Detected	540	Not Detected
Carbon Disulfide	55	Not Detected	170	Not Detected
3-Chloropropene	220	Not Detected	690	Not Detected
Methylene Chloride	55	Not Detected	190	Not Detected
Methyl tert-butyl ether	55	Not Detected	200	Not Detected
trans-1,2-Dichloroethene	55	580	220	2300
Hexane	55	Not Detected	190	Not Detected
1,1-Dichloroethane	55	Not Detected	220	Not Detected
2-Butanone (Methyl Ethyl Ketone)	220	Not Detected	650	Not Detected
cis-1,2-Dichloroethene	55	30000	220	120000
Tetrahydrofuran	55	Not Detected	160	Not Detected
Chloroform	55	Not Detected	270	Not Detected
1,1,1-Trichloroethane	55	Not Detected	300	Not Detected
Cyclohexane	55	Not Detected	190	Not Detected
Carbon Tetrachloride	55	Not Detected	350	Not Detected
2,2,4-Trimethylpentane	55	Not Detected	260	Not Detected
Benzene	55	Not Detected	180	Not Detected
1,2-Dichloroethane	55	Not Detected	220	Not Detected
Heptane	55	Not Detected	220	Not Detected
Trichloroethene	55	24000	300	130000
1,2-Dichloropropane	55	Not Detected	250	Not Detected
1,4-Dioxane	220	Not Detected	790	Not Detected
Bromodichloromethane	55	Not Detected	370	Not Detected
cis-1,3-Dichloropropene	55	Not Detected	250	Not Detected
4-Methyl-2-pentanone	55	Not Detected	220	Not Detected
Toluene	55	Not Detected	210	Not Detected
trans-1,3-Dichloropropene	55	Not Detected	250	Not Detected
1,1,2-Trichloroethane	55	Not Detected	300	Not Detected
Tetrachloroethene	55	12000	370	85000
2-Hexanone	220	Not Detected	900	Not Detected



Client Sample ID: DC-VMP-2-5' Lab ID#: 1508037A-01A EPA METHOD TO-15 GC/MS

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File Name: Dil. Factor:	14081007 Date of Collection: 8/4/15 11:35:0 11.0 Date of Analysis: 8/10/15 11:02 A			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	55	Not Detected	470	Not Detected
1,2-Dibromoethane (EDB)	55	Not Detected	420	Not Detected
Chlorobenzene	55	Not Detected	250	Not Detected
Ethyl Benzene	55	Not Detected	240	Not Detected
m,p-Xylene	55	63	240	280
o-Xylene	55	Not Detected	240	Not Detected
Styrene	55	Not Detected	230	Not Detected
Bromoform	55	Not Detected	570	Not Detected
Cumene	55	Not Detected	270	Not Detected
1,1,2,2-Tetrachloroethane	55	Not Detected	380	Not Detected
Propylbenzene	55	Not Detected	270	Not Detected
4-Ethyltoluene	55	Not Detected	270	Not Detected
1,3,5-Trimethylbenzene	55	Not Detected	270	Not Detected
1,2,4-Trimethylbenzene	55	Not Detected	270	Not Detected
1,3-Dichlorobenzene	55	Not Detected	330	Not Detected
1,4-Dichlorobenzene	55	Not Detected	330	Not Detected
alpha-Chlorotoluene	55	Not Detected	280	Not Detected
1,2-Dichlorobenzene	55	Not Detected	330	Not Detected
1,2,4-Trichlorobenzene	220	Not Detected	1600	Not Detected
Hexachlorobutadiene	220	Not Detected	2300	Not Detected

Container Type: 1 Liter Summa Canister

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130



Client Sample ID: DC-VMP-3-5' Lab ID#: 1508037A-02A EPA METHOD TO-15 GC/MS FULL SCAN

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File Name: Dil. Factor:	a080707 11.5	Date of Collection: 8/4/15 11:5 Date of Analysis: 8/7/15 01:47		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.8	16	28	79
Freon 114	5.8	Not Detected	40	Not Detected
Chloromethane	58	Not Detected	120	Not Detected
Vinyl Chloride	5.8	12	15	30
1,3-Butadiene	5.8	Not Detected	13	Not Detected
Bromomethane	58	Not Detected	220	Not Detected
Chloroethane	23	Not Detected	61	Not Detected
Freon 11	5.8	Not Detected	32	Not Detected
Ethanol	23	Not Detected	43	Not Detected
Freon 113	5.8	Not Detected	44	Not Detected
1,1-Dichloroethene	5.8	Not Detected	23	Not Detected
Acetone	58	Not Detected	140	Not Detected
2-Propanol	23	Not Detected	56	Not Detected
Carbon Disulfide	23	25	72	77
3-Chloropropene	23	Not Detected	72	Not Detected
Methylene Chloride	58	Not Detected	200	Not Detected
Methyl tert-butyl ether	5.8	Not Detected	21	Not Detected
trans-1,2-Dichloroethene	5.8	Not Detected	23	Not Detected
Hexane	5.8	Not Detected	20	Not Detected
1,1-Dichloroethane	5.8	Not Detected	23	Not Detected
2-Butanone (Methyl Ethyl Ketone)	23	Not Detected	68	Not Detected
cis-1,2-Dichloroethene	5.8	1100	23	4400
Tetrahydrofuran	5.8	9.1	17	27
Chloroform	5.8	21	28	100
1,1,1-Trichloroethane	5.8	Not Detected	31	Not Detected
Cyclohexane	5.8	11	20	37
Carbon Tetrachloride	5.8	Not Detected	36	Not Detected
2,2,4-Trimethylpentane	5.8	Not Detected	27	Not Detected
Benzene	5.8	11	18	34
1,2-Dichloroethane	5.8	Not Detected	23	Not Detected
	5.8	Not Detected	23	Not Detected
Heptane	5.8	750	31	4000
Trichloroethene	5.8	Not Detected	26	Not Detected
1,2-Dichloropropane	23	Not Detected	83	Not Detected
1,4-Dioxane Bromodichloromethane	5.8	Not Detected	38	Not Detected
cis-1,3-Dichloropropene	5.8	Not Detected	26 24	Not Detected
4-Methyl-2-pentanone	5.8	Not Detected	24	Not Detected
Toluene	5.8	100 Not Detected	22	380 Not Detected
trans-1,3-Dichloropropene	5.8	Not Detected	26 21	Not Detected
1,1,2-Trichloroethane	5.8	Not Detected	31	Not Detected
Tetrachloroethene	5.8	1600	39	11000
2-Hexanone	23	Not Detected	94	Not Detected



Client Sample ID: DC-VMP-3-5' Lab ID#: 1508037A-02A EPA METHOD TO-15 GC/MS FULL SCAN

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File Name: Dil. Factor:	a080707 Date of Collection: 8/4/15 11:53:0 11.5 Date of Analysis: 8/7/15 01:47 PN			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.8	Not Detected	49	Not Detected
1,2-Dibromoethane (EDB)	5.8	Not Detected	44	Not Detected
Chlorobenzene	5.8	Not Detected	26	Not Detected
Ethyl Benzene	5.8	18	25	80
m,p-Xylene	5.8	65	25	280
o-Xylene	5.8	28	25	120
Styrene	5.8	Not Detected	24	Not Detected
Bromoform	5.8	Not Detected	59	Not Detected
Cumene	5.8	Not Detected	28	Not Detected
1,1,2,2-Tetrachloroethane	5.8	Not Detected	39	Not Detected
Propylbenzene	5.8	Not Detected	28	Not Detected
4-Ethyltoluene	5.8	17	28	83
1,3,5-Trimethylbenzene	5.8	8.4	28	41
1,2,4-Trimethylbenzene	5.8	15	28	74
1,3-Dichlorobenzene	5.8	Not Detected	34	Not Detected
1,4-Dichlorobenzene	5.8	Not Detected	34	Not Detected
alpha-Chlorotoluene	5.8	Not Detected	30	Not Detected
1,2-Dichlorobenzene	5.8	Not Detected	34	Not Detected
1,2,4-Trichlorobenzene	23	Not Detected	170	Not Detected
Hexachlorobutadiene	23	Not Detected	240	Not Detected

Container Type: 1 Liter Summa Canister

		Method
Surrogates	%Recovery	Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	98	70-130



Client Sample ID: DC-VMP-4-5' Lab ID#: 1508037A-03A EPA METHOD TO-15 GC/MS

File Name:	14081008	Date	of Collection: 8/4	/15 12:12:00 PM
Dil. Factor:	2.90	2.90 Date of Analysis: 8/10/15 11:22		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	14	Not Detected	72	Not Detected
Freon 114	14	Not Detected	100	Not Detected
Chloromethane	58	Not Detected	120	Not Detected
Vinyl Chloride	14	Not Detected	37	Not Detected
1,3-Butadiene	14	Not Detected	32	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Chloroethane	58	Not Detected	150	Not Detected
Freon 11	14	Not Detected	81	Not Detected
Ethanol	58	Not Detected	110	Not Detected
Freon 113	14	Not Detected	110	Not Detected
1,1-Dichloroethene	14	Not Detected	57	Not Detected
Acetone	58	Not Detected	140	Not Detected
2-Propanol	58	Not Detected	140	Not Detected
Carbon Disulfide	14	Not Detected	45	Not Detected
3-Chloropropene	58	Not Detected	180	Not Detected
Methylene Chloride	14	Not Detected	50	Not Detected
Methyl tert-butyl ether	14	Not Detected	52	Not Detected
trans-1,2-Dichloroethene	14	Not Detected	57	Not Detected
Hexane	14	17	51	61
1,1-Dichloroethane	14	Not Detected	59	Not Detected
2-Butanone (Methyl Ethyl Ketone)	58	Not Detected	170	Not Detected
cis-1,2-Dichloroethene	14	640	57	2600
Tetrahydrofuran	14	Not Detected	43	Not Detected
Chloroform	14	180	71	870
1,1,1-Trichloroethane	14	Not Detected	79	Not Detected
Cyclohexane	14	Not Detected	50	Not Detected
Carbon Tetrachloride	14	Not Detected	91	Not Detected
2,2,4-Trimethylpentane	14	Not Detected	68	Not Detected
Benzene	14	Not Detected	46	Not Detected
1,2-Dichloroethane	14	Not Detected	59	Not Detected
Heptane	14	Not Detected	59	Not Detected
Trichloroethene	14	7600	78	41000
1,2-Dichloropropane	14	Not Detected	67	Not Detected
1,4-Dioxane	58	Not Detected	210	Not Detected
Bromodichloromethane	14	Not Detected	97	Not Detected
cis-1,3-Dichloropropene	14	Not Detected	66	Not Detected
4-Methyl-2-pentanone	14	Not Detected	59	Not Detected
Toluene	14	Not Detected	55	Not Detected
trans-1,3-Dichloropropene	14	Not Detected	66	Not Detected
1,1,2-Trichloroethane	14	Not Detected	79	Not Detected
Tetrachloroethene	14	8000	98	54000
2-Hexanone	58	Not Detected	240	Not Detected
			= 10	



Client Sample ID: DC-VMP-4-5' Lab ID#: 1508037A-03A EPA METHOD TO-15 GC/MS

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File Name: Dil. Factor:	14081008 Date of Collection: 8/4/ 2.90 Date of Analysis: 8/10/1			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	14	Not Detected	120	Not Detected
1,2-Dibromoethane (EDB)	14	Not Detected	110	Not Detected
Chlorobenzene	14	Not Detected	67	Not Detected
Ethyl Benzene	14	Not Detected	63	Not Detected
m,p-Xylene	14	Not Detected	63	Not Detected
o-Xylene	14	Not Detected	63	Not Detected
Styrene	14	Not Detected	62	Not Detected
Bromoform	14	Not Detected	150	Not Detected
Cumene	14	Not Detected	71	Not Detected
1,1,2,2-Tetrachloroethane	14	Not Detected	100	Not Detected
Propylbenzene	14	Not Detected	71	Not Detected
4-Ethyltoluene	14	Not Detected	71	Not Detected
1,3,5-Trimethylbenzene	14	Not Detected	71	Not Detected
1,2,4-Trimethylbenzene	14	Not Detected	71	Not Detected
1,3-Dichlorobenzene	14	Not Detected	87	Not Detected
1,4-Dichlorobenzene	14	Not Detected	87	Not Detected
alpha-Chlorotoluene	14	Not Detected	75	Not Detected
1,2-Dichlorobenzene	14	Not Detected	87	Not Detected
1,2,4-Trichlorobenzene	58	Not Detected	430	Not Detected
Hexachlorobutadiene	58	Not Detected	620	Not Detected

Container Type: 1 Liter Summa Canister

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	100	70-130



Client Sample ID: DC-VMP-5-5' Lab ID#: 1508037A-04A EPA METHOD TO-15 GC/MS

File Name: Dil. Factor:	14081009 2.75		of Collection: 8/4 of Analysis: 8/10		
Compound	Rpt. Limit (ppbv)	Amount Rpt. Limit (ppbv) (ug/m3)		Amount (ug/m3)	
Freon 12	14	400	68	2000	
Freon 114	14	Not Detected	96	Not Detected	
Chloromethane	55	Not Detected	110	Not Detected	
Vinyl Chloride	14	2800	35	7100	
1,3-Butadiene	14	Not Detected	30	Not Detected	
Bromomethane	14	Not Detected	53	Not Detected	
Chloroethane	55	Not Detected	140	Not Detected	
Freon 11	14	Not Detected	77	Not Detected	
Ethanol	55	Not Detected	100	Not Detected	
Freon 113	14	Not Detected	100	Not Detected	
I,1-Dichloroethene	14	72	54	280	
Acetone	55	Not Detected	130	Not Detected	
	55	Not Detected	130	Not Detected	
2-Propanol	55 14	Not Detected			
Carbon Disulfide			43	Not Detected	
3-Chloropropene	55	Not Detected	170	Not Detected	
Methylene Chloride	14	Not Detected	48	Not Detected	
Methyl tert-butyl ether	14	Not Detected	50	Not Detected	
rans-1,2-Dichloroethene	14	350	54	1400	
Hexane	14	53	48	190	
1,1-Dichloroethane	14	Not Detected	56	Not Detected	
2-Butanone (Methyl Ethyl Ketone)	55	Not Detected	160	Not Detected	
cis-1,2-Dichloroethene	14	6100	54	24000	
Tetrahydrofuran	14	Not Detected	40	Not Detected	
Chloroform	14	Not Detected	67	Not Detected	
1,1,1-Trichloroethane	14	Not Detected	75	Not Detected	
Cyclohexane	14	78	47	270	
Carbon Tetrachloride	14	Not Detected	86	Not Detected	
2,2,4-Trimethylpentane	14	Not Detected	64	Not Detected	
Benzene	14	Not Detected	44	Not Detected	
1,2-Dichloroethane	14	Not Detected	56	Not Detected	
Heptane	14	Not Detected	56	Not Detected	
Trichloroethene	14	7200	74	39000	
1,2-Dichloropropane	14	Not Detected	64	Not Detected	
1,4-Dioxane	55	Not Detected	200	Not Detected	
Bromodichloromethane	14	Not Detected	92	Not Detected	
cis-1,3-Dichloropropene	14	Not Detected	62	Not Detected	
	14	Not Detected	56	Not Detected	
4-Methyl-2-pentanone	14	Not Detected	52	Not Detected	
Toluene		Not Detected			
rans-1,3-Dichloropropene	14		62 75	Not Detected	
1,1,2-Trichloroethane	14	Not Detected	75	Not Detected	
Tetrachloroethene	14	6600	93	45000	
2-Hexanone	55	Not Detected	220	Not Detected	



Client Sample ID: DC-VMP-5-5' Lab ID#: 1508037A-04A EPA METHOD TO-15 GC/MS

File Name: Dil. Factor:	14081009 Date of Collection: 8/4/15 12:3 2.75 Date of Analysis: 8/10/15 11:4			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	14	Not Detected	120	Not Detected
1,2-Dibromoethane (EDB)	14	Not Detected	100	Not Detected
Chlorobenzene	14	Not Detected	63	Not Detected
Ethyl Benzene	14	Not Detected	60	Not Detected
m,p-Xylene	14	Not Detected	60	Not Detected
o-Xylene	14	Not Detected	60	Not Detected
Styrene	14	Not Detected	58	Not Detected
Bromoform	14	Not Detected	140	Not Detected
Cumene	14	Not Detected	68	Not Detected
1,1,2,2-Tetrachloroethane	14	Not Detected	94	Not Detected
Propylbenzene	14	Not Detected	68	Not Detected
4-Ethyltoluene	14	Not Detected	68	Not Detected
1,3,5-Trimethylbenzene	14	Not Detected	68	Not Detected
1,2,4-Trimethylbenzene	14	Not Detected	68	Not Detected
1,3-Dichlorobenzene	14	Not Detected	83	Not Detected
1,4-Dichlorobenzene	14	Not Detected	83	Not Detected
alpha-Chlorotoluene	14	Not Detected	71	Not Detected
1,2-Dichlorobenzene	14	Not Detected	83	Not Detected
1,2,4-Trichlorobenzene	55	Not Detected	410	Not Detected
Hexachlorobutadiene	55	Not Detected	590	Not Detected

Container Type: 1 Liter Summa Canister

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130



Client Sample ID: DC-VMP-6-5' Lab ID#: 1508037A-05A EPA METHOD TO-15 GC/MS

File Name: Dil. Factor:	14081010 738		of Collection: 8/4 of Analysis: 8/10/	
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(ug/m3)
Freon 12	3700	Not Detected	18000	Not Detected
Freon 114	3700	Not Detected	26000	Not Detected
Chloromethane	15000	Not Detected	30000	Not Detected
Vinyl Chloride	3700	5000	9400	13000
1,3-Butadiene	3700	Not Detected	8200	Not Detected
Bromomethane	3700	Not Detected	14000	Not Detected
Chloroethane	15000	Not Detected	39000	Not Detected
Freon 11	3700	Not Detected	21000	Not Detected
Ethanol	15000	Not Detected	28000	Not Detected
Freon 113	3700	Not Detected	28000	Not Detected
1,1-Dichloroethene	3700	Not Detected	15000	Not Detected
Acetone	15000	Not Detected	35000	Not Detected
2-Propanol	15000	Not Detected	36000	Not Detected
Carbon Disulfide	3700	Not Detected	11000	Not Detected
3-Chloropropene	15000	Not Detected	46000	Not Detected
Methylene Chloride	3700	Not Detected	13000	Not Detected
Methyl tert-butyl ether	3700	Not Detected	13000	Not Detected
trans-1,2-Dichloroethene	3700	Not Detected	15000	Not Detected
Hexane	3700	Not Detected	13000	Not Detected
1,1-Dichloroethane	3700	Not Detected	15000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	15000	Not Detected	44000	Not Detected
cis-1,2-Dichloroethene	3700	16000	15000	65000
Tetrahydrofuran	3700	Not Detected	11000	Not Detected
Chloroform	3700	Not Detected	18000	Not Detected
1,1,1-Trichloroethane	3700	Not Detected	20000	Not Detected
Cyclohexane	3700	Not Detected	13000	Not Detected
Carbon Tetrachloride	3700	Not Detected	23000	Not Detected
2,2,4-Trimethylpentane	3700	Not Detected	17000	Not Detected
Benzene	3700	Not Detected	12000	Not Detected
1,2-Dichloroethane	3700	Not Detected	15000	Not Detected
Heptane	3700	Not Detected	15000	Not Detected
Trichloroethene	3700	18000	20000	99000
1,2-Dichloropropane	3700	Not Detected	17000	Not Detected
1,4-Dioxane	15000	Not Detected	53000	Not Detected
Bromodichloromethane	3700	Not Detected	25000	Not Detected
cis-1,3-Dichloropropene	3700	Not Detected	17000	Not Detected
4-Methyl-2-pentanone	3700	Not Detected	15000	Not Detected
Toluene	3700	Not Detected	14000	Not Detected
trans-1,3-Dichloropropene	3700	Not Detected	17000	Not Detected
1,1,2-Trichloroethane	3700	Not Detected	20000	Not Detected
	3700	2800000	25000	1900000
Tetrachloroethene 2-Hexanone	15000	Not Detected	25000 60000	Not Detected



Client Sample ID: DC-VMP-6-5' Lab ID#: 1508037A-05A EPA METHOD TO-15 GC/MS

File Name: Dil. Factor:	14081010 738			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	3700	Not Detected	31000	Not Detected
1,2-Dibromoethane (EDB)	3700	Not Detected	28000	Not Detected
Chlorobenzene	3700	Not Detected	17000	Not Detected
Ethyl Benzene	3700	Not Detected	16000	Not Detected
m,p-Xylene	3700	Not Detected	16000	Not Detected
o-Xylene	3700	Not Detected	16000	Not Detected
Styrene	3700	Not Detected	16000	Not Detected
Bromoform	3700	Not Detected	38000	Not Detected
Cumene	3700	Not Detected	18000	Not Detected
1,1,2,2-Tetrachloroethane	3700	Not Detected	25000	Not Detected
Propylbenzene	3700	Not Detected	18000	Not Detected
4-Ethyltoluene	3700	Not Detected	18000	Not Detected
1,3,5-Trimethylbenzene	3700	Not Detected	18000	Not Detected
1,2,4-Trimethylbenzene	3700	Not Detected	18000	Not Detected
1,3-Dichlorobenzene	3700	Not Detected	22000	Not Detected
1,4-Dichlorobenzene	3700	Not Detected	22000	Not Detected
alpha-Chlorotoluene	3700	Not Detected	19000	Not Detected
1,2-Dichlorobenzene	3700	Not Detected	22000	Not Detected
1,2,4-Trichlorobenzene	15000	Not Detected	110000	Not Detected
Hexachlorobutadiene	15000	Not Detected	160000	Not Detected

Container Type: 1 Liter Summa Canister

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	97	70-130



Client Sample ID: DC-VMP-7-5' Lab ID#: 1508037A-06A EPA METHOD TO-15 GC/MS FULL SCAN

Compound Freon 12 Freon 114 Chloromethane Vinyl Chloride	2.33 Rpt. Limit (ppbv) 1.2 1.2 1.2 12	Amount (ppbv) 2.4	of Analysis: 8/11/ Rpt. Limit (ug/m3)	Amount
Freon 114 Chloromethane	1.2	2.4		(ug/m3)
Freon 114 Chloromethane	1.2		5.8	12
Chloromethane		Not Detected	8.1	Not Detected
√inyl Chloride		Not Detected	24	Not Detected
	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Ethanol	4.7	9.2	8.8	17
Freon 113	1.2	Not Detected	8.9	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	22	28	53
2-Propanol	4.7	Not Detected	11	Not Detected
Carbon Disulfide	4.7	Not Detected	14	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	33	5.7	160
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.4	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Heptane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
	1.2	Not Detected	5.3	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	4.8	Not Detected
4-Methyl-2-pentanone	1.2	1.5	4.0	5.6
Toluene	1.2	Not Detected	4.4 5.3	Not Detected
trans-1,3-Dichloropropene 1,1,2-Trichloroethane	1.2	Not Detected	5.3 6.4	Not Detected
	1.2	21	7.9	140
Tetrachloroethene 2-Hexanone	4.7	Not Detected	7.9 19	Not Detected



Client Sample ID: DC-VMP-7-5' Lab ID#: 1508037A-06A EPA METHOD TO-15 GC/MS FULL SCAN

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File Name: Dil. Factor:	3081027 Date of Collection: 8/4/1 2.33 Date of Analysis: 8/11/15		• • • • • • • • • • • • • • • • • • • •	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
Propylbenzene	1.2	Not Detected	5.7	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected

Container Type: 1 Liter Summa Canister

		Method
Surrogates	%Recovery	Limits
Toluene-d8	89	70-130
1,2-Dichloroethane-d4	119	70-130
4-Bromofluorobenzene	109	70-130



Client Sample ID: DC-VMP-8-5' Lab ID#: 1508037A-07A EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	a080708 23.0		of Collection: 8/4 of Analysis: 8/7/1	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	12	670	57	3300
Freon 114	12	Not Detected	80	Not Detected
Chloromethane	120	Not Detected	240	Not Detected
Vinyl Chloride	12	2400	29	6100
1,3-Butadiene	12	Not Detected	25	Not Detected
Bromomethane	120	Not Detected	450	Not Detected
Chloroethane	46	Not Detected	120	Not Detected
Freon 11	12	Not Detected	65	Not Detected
Ethanol	46	Not Detected	87	Not Detected
Freon 113	12	Not Detected	88	Not Detected
1,1-Dichloroethene	12	14	46	55
Acetone	120	Not Detected	270	Not Detected
2-Propanol	46	Not Detected	110	Not Detected
Carbon Disulfide	46	Not Detected	140	Not Detected
3-Chloropropene	46	Not Detected	140	Not Detected
Methylene Chloride	120	Not Detected	400	Not Detected
Methyl tert-butyl ether	12	Not Detected	41	Not Detected
trans-1,2-Dichloroethene	12	96	46	380
Hexane	12	25	40	89
1,1-Dichloroethane	12	Not Detected	46	Not Detected
2-Butanone (Methyl Ethyl Ketone)	46	Not Detected	140	Not Detected
cis-1,2-Dichloroethene	12	1900	46	7400
Tetrahydrofuran	12	Not Detected	34	Not Detected
Chloroform	12	Not Detected	56	Not Detected
1,1,1-Trichloroethane	12	Not Detected	63	Not Detected
Cyclohexane	12	27	40	93
Carbon Tetrachloride	12	Not Detected	72	Not Detected
2,2,4-Trimethylpentane	12	Not Detected	54	Not Detected
Benzene	12	Not Detected	37	Not Detected
1,2-Dichloroethane	12	Not Detected	46	Not Detected
	12	Not Detected	47	Not Detected
Heptane Trichloroethene	12	130	62	720
	12	Not Detected	53	Not Detected
1,2-Dichloropropane	46	Not Detected	160	Not Detected
1,4-Dioxane	40 12	Not Detected	77	
Bromodichloromethane				Not Detected
cis-1,3-Dichloropropene	12	Not Detected	52	Not Detected
4-Methyl-2-pentanone	12	Not Detected	47	Not Detected
Toluene	12	Not Detected	43	Not Detected
trans-1,3-Dichloropropene	12	Not Detected	52	Not Detected
1,1,2-Trichloroethane	12	Not Detected	63	Not Detected
Tetrachloroethene	12	56	78	380
2-Hexanone	46	Not Detected	190	Not Detected



Client Sample ID: DC-VMP-8-5' Lab ID#: 1508037A-07A EPA METHOD TO-15 GC/MS FULL SCAN

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File Name: Dil. Factor:	a080708 23.0	Date of Collection: 8/4/15 1:38:00 PM Date of Analysis: 8/7/15 02:24 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	12	Not Detected	98	Not Detected
1,2-Dibromoethane (EDB)	12	Not Detected	88	Not Detected
Chlorobenzene	12	Not Detected	53	Not Detected
Ethyl Benzene	12	Not Detected	50	Not Detected
m,p-Xylene	12	Not Detected	50	Not Detected
o-Xylene	12	Not Detected	50	Not Detected
Styrene	12	Not Detected	49	Not Detected
Bromoform	12	Not Detected	120	Not Detected
Cumene	12	Not Detected	56	Not Detected
1,1,2,2-Tetrachloroethane	12	Not Detected	79	Not Detected
Propylbenzene	12	Not Detected	56	Not Detected
4-Ethyltoluene	12	Not Detected	56	Not Detected
1,3,5-Trimethylbenzene	12	Not Detected	56	Not Detected
1,2,4-Trimethylbenzene	12	Not Detected	56	Not Detected
1,3-Dichlorobenzene	12	Not Detected	69	Not Detected
1,4-Dichlorobenzene	12	Not Detected	69	Not Detected
alpha-Chlorotoluene	12	Not Detected	60	Not Detected
1,2-Dichlorobenzene	12	Not Detected	69	Not Detected
1,2,4-Trichlorobenzene	46	Not Detected	340	Not Detected
Hexachlorobutadiene	46	Not Detected	490	Not Detected

Container Type: 1 Liter Summa Canister

		Method
Surrogates	%Recovery	Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	97	70-130



Client Sample ID: Lab Blank Lab ID#: 1508037A-08A EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	a080706 1.00		of Collection: NA of Analysis: 8/7/1	5 12·40 PM
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected



Client Sample ID: Lab Blank Lab ID#: 1508037A-08A EPA METHOD TO-15 GC/MS FULL SCAN

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File Name: Dil. Factor:	a080706 1.00	Date of Collection: NA Date of Analysis: 8/7/15 12:40 PN		5 12:40 PM
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Surrogates	%Recovery	Method Limits
Surroyates	/aitecovery	Liiliita
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	96	70-130



Client Sample ID: Lab Blank Lab ID#: 1508037A-08B EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	3081006 1.00		of Collection: NA of Analysis: 8/10	/15 12:21 PM
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
rans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.3	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
1 etrachioroethene 2-Hexanone	2.0	Not Detected	3.4 8.2	Not Detected



Client Sample ID: Lab Blank Lab ID#: 1508037A-08B EPA METHOD TO-15 GC/MS FULL SCAN

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File Name: Dil. Factor:	3081006 1.00	Date of Collection: NA Date of Analysis: 8/10/15 12:21 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

		Method
Surrogates	%Recovery	Limits
Toluene-d8	89	70-130
1,2-Dichloroethane-d4	117	70-130
4-Bromofluorobenzene	106	70-130



Client Sample ID: Lab Blank Lab ID#: 1508037A-08C EPA METHOD TO-15 GC/MS

File Name: Dil. Factor:	14081005 1.00		of Collection: NA of Analysis: 8/10/	/15 09:58 AM
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected



Client Sample ID: Lab Blank Lab ID#: 1508037A-08C EPA METHOD TO-15 GC/MS

File Name: Dil. Factor:	14081005Date of Collection: NA1.00Date of Analysis: 8/10/15 09:			/15 09:58 AM
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Surrogates	%Recovery	Method Limits
Junogales	/orcecovery	Linits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130



Client Sample ID: CCV Lab ID#: 1508037A-09A EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	a080703 1.00	Date of Collection: NA Date of Analysis: 8/7/15 11:01 AM
Compound		%Recovery
Freon 12		96
Freon 114		94
Chloromethane		95
Vinyl Chloride		92
1,3-Butadiene		91
Bromomethane		92
Chloroethane		93
Freon 11		93
Ethanol		87
Freon 113		87
1,1-Dichloroethene		86
Acetone		108
2-Propanol		86
Carbon Disulfide		92
3-Chloropropene		89
Methylene Chloride		96
Methyl tert-butyl ether		89
trans-1,2-Dichloroethene		94
Hexane		94
1,1-Dichloroethane		97
2-Butanone (Methyl Ethyl Ketone)		98
cis-1,2-Dichloroethene		92
Tetrahydrofuran		93
Chloroform		96
1,1,1-Trichloroethane		94
Cyclohexane		96
Carbon Tetrachloride		95
2,2,4-Trimethylpentane		98
Benzene		94
1,2-Dichloroethane		97
Heptane		98
Trichloroethene		98
1,2-Dichloropropane		98
1,4-Dioxane		89
Bromodichloromethane		97
cis-1,3-Dichloropropene		99
4-Methyl-2-pentanone		88
Toluene		96
trans-1,3-Dichloropropene		99
1,1,2-Trichloroethane		98
		94
Tetrachloroethene		
2-Hexanone		76



Client Sample ID: CCV Lab ID#: 1508037A-09A EPA METHOD TO-15 GC/MS FULL SCAN

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File Name: Dil. Factor:	a080703 1.00	Date of Collection: NA Date of Analysis: 8/7/15 11:01 AM
Compound		%Recovery
Dibromochloromethane		98
1,2-Dibromoethane (EDB)		98
Chlorobenzene		93
Ethyl Benzene		94
m,p-Xylene		100
o-Xylene		97
Styrene		91
Bromoform		97
Cumene		99
1,1,2,2-Tetrachloroethane		102
Propylbenzene		99
4-Ethyltoluene		94
1,3,5-Trimethylbenzene		94
1,2,4-Trimethylbenzene		96
1,3-Dichlorobenzene		98
1,4-Dichlorobenzene		100
alpha-Chlorotoluene		96
1,2-Dichlorobenzene		100
1,2,4-Trichlorobenzene		104
Hexachlorobutadiene		103

		Method
Surrogates	%Recovery	Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	101	70-130



Client Sample ID: CCV Lab ID#: 1508037A-09B EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	3081002 1.00	Date of Collection: NA Date of Analysis: 8/10/15 10:24 AM
Compound	%	Recovery
Freon 12		119
Freon 114		107
Chloromethane		74
Vinyl Chloride		74
1,3-Butadiene		77
Bromomethane		102
Chloroethane		94
Freon 11		119
Ethanol		86
Freon 113		105
1,1-Dichloroethene		101
Acetone		91
2-Propanol		94
Carbon Disulfide		94
3-Chloropropene		94
Methylene Chloride		92
Methyl tert-butyl ether		104
trans-1,2-Dichloroethene		100
Hexane		89
1,1-Dichloroethane		92
2-Butanone (Methyl Ethyl Ketone)		88
cis-1,2-Dichloroethene		94
Tetrahydrofuran		85
Chloroform		102
1,1,1-Trichloroethane		111
Cyclohexane		94
Carbon Tetrachloride		115
2,2,4-Trimethylpentane		90
Benzene		93
1,2-Dichloroethane		120
Heptane		95
Trichloroethene		108
1,2-Dichloropropane		83
1,4-Dioxane		95
Bromodichloromethane		104
cis-1,3-Dichloropropene		90
4-Methyl-2-pentanone		82
Toluene		84
trans-1,3-Dichloropropene		107
1,1,2-Trichloroethane		100
Tetrachloroethene		108
2-Hexanone		92



Client Sample ID: CCV Lab ID#: 1508037A-09B EPA METHOD TO-15 GC/MS FULL SCAN

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File Name: Dil. Factor:	3081002 1.00	Date of Collection: NA Date of Analysis: 8/10/15 10:24 AM
Compound		%Recovery
Dibromochloromethane		116
1,2-Dibromoethane (EDB)		104
Chlorobenzene		102
Ethyl Benzene		103
m,p-Xylene		107
o-Xylene		112
Styrene		115
Bromoform		115
Cumene		116
1,1,2,2-Tetrachloroethane		83
Propylbenzene		107
4-Ethyltoluene		115
1,3,5-Trimethylbenzene		112
1,2,4-Trimethylbenzene		112
1,3-Dichlorobenzene		113
1,4-Dichlorobenzene		114
alpha-Chlorotoluene		101
1,2-Dichlorobenzene		108
1,2,4-Trichlorobenzene		102
Hexachlorobutadiene		100

		Method
Surrogates	%Recovery	Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	108	70-130



Client Sample ID: CCV Lab ID#: 1508037A-09C EPA METHOD TO-15 GC/MS

	EPA METHOD TO-15 GC/MS			
File Name:	14081002	Date of Collection: NA		
Dil. Factor:	1.00	Date of Analysis: 8/10/15 08:52 AM		
Compound		%Recovery		
Freon 12		105		
Freon 114		106		
Chloromethane		102		
Vinyl Chloride		98		
1,3-Butadiene		95		
Bromomethane		84		
Chloroethane		89		
Freon 11		106		
Ethanol		108		
Freon 113		106		
1,1-Dichloroethene		102		
Acetone		100		
2-Propanol		105		
Carbon Disulfide		100		
3-Chloropropene		104		
Methylene Chloride		101		
Methyl tert-butyl ether		118		
trans-1,2-Dichloroethene		108		
Hexane		108		
1,1-Dichloroethane		107		
2-Butanone (Methyl Ethyl Ketone)		106		
cis-1,2-Dichloroethene		103		
Tetrahydrofuran		117		
Chloroform		112		
1,1,1-Trichloroethane		112		
Cyclohexane		108		
Carbon Tetrachloride		119		
2,2,4-Trimethylpentane		104		
Benzene		106		
1,2-Dichloroethane		116		
Heptane		113		
Trichloroethene		96		
1,2-Dichloropropane		107		
1,4-Dioxane		115		
Bromodichloromethane		114		
cis-1,3-Dichloropropene		120		
4-Methyl-2-pentanone		120		
Toluene		109		
trans-1,3-Dichloropropene		116		
1,1,2-Trichloroethane		107		
Tetrachloroethene		107		
2-Hexanone		110		



Client Sample ID: CCV Lab ID#: 1508037A-09C EPA METHOD TO-15 GC/MS

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File Name: Dil. Factor:	14081002 1.00	Date of Collection: NA Date of Analysis: 8/10/15 08:52 AM
Compound		%Recovery
Dibromochloromethane		111
1,2-Dibromoethane (EDB)		112
Chlorobenzene		108
Ethyl Benzene		112
m,p-Xylene		116
o-Xylene		112
Styrene		124
Bromoform		120
Cumene		118
1,1,2,2-Tetrachloroethane		138 Q
Propylbenzene		116
4-Ethyltoluene		119
1,3,5-Trimethylbenzene		119
1,2,4-Trimethylbenzene		120
1,3-Dichlorobenzene		113
1,4-Dichlorobenzene		111
alpha-Chlorotoluene		152 Q
1,2-Dichlorobenzene		117
1,2,4-Trichlorobenzene		108
Hexachlorobutadiene		108

Q = Exceeds Quality Control limits.

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	100	70-130



Client Sample ID: LCS Lab ID#: 1508037A-10A EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	a080704 Date of Collect 1.00 Date of Analysi	ion: NA is: 8/7/15 11:41 AM
		Method
Compound	%Recovery	Limits
Freon 12	103	70-130
Freon 114	104	70-130
Chloromethane	106	70-130
Vinyl Chloride	102	70-130
1,3-Butadiene	96	70-130
Bromomethane	99	70-130
Chloroethane	104	70-130
Freon 11	103	70-130
Ethanol	101	70-130
Freon 113	92	70-130
1,1-Dichloroethene	90	70-130
Acetone	94	70-130
2-Propanol	106	70-130
Carbon Disulfide	84	70-130
3-Chloropropene	92	70-130
Methylene Chloride	104	70-130
Methyl tert-butyl ether	94	70-130
trans-1,2-Dichloroethene	84	70-130
Hexane	100	70-130
1,1-Dichloroethane	102	70-130
2-Butanone (Methyl Ethyl Ketone)	104	70-130
cis-1,2-Dichloroethene	109	70-130
Tetrahydrofuran	102	70-130
Chloroform	102	70-130
1,1,1-Trichloroethane	101	70-130
Cyclohexane	103	70-130
Carbon Tetrachloride	102	70-130
2,2,4-Trimethylpentane	109	70-130
Benzene	100	70-130
1,2-Dichloroethane	102	70-130
Heptane	100	70-130
Trichloroethene	98	70-130
1,2-Dichloropropane	103	70-130
1,4-Dioxane	99	70-130
Bromodichloromethane	104	70-130
cis-1,3-Dichloropropene	99	70-130
4-Methyl-2-pentanone	108	70-130
Toluene	103	70-130
trans-1,3-Dichloropropene	102	70-130
1,1,2-Trichloroethane	99	70-130
Tetrachloroethene	97	70-130
2-Hexanone	113	70-130



Client Sample ID: LCS Lab ID#: 1508037A-10A EPA METHOD TO-15 GC/MS FULL SCAN

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File Name: Dil. Factor:	a080704 1.00		Date of Collection: NA Date of Analysis: 8/7/15 11:41 AM	
Compound		%Recovery		
Dibromochloromethane		102	70-130	
1,2-Dibromoethane (EDB)		101	70-130	
Chlorobenzene		96	70-130	
Ethyl Benzene		99	70-130	
m,p-Xylene		105	70-130	
o-Xylene		102	70-130	
Styrene		104	70-130	
Bromoform		100	70-130	
Cumene		103	70-130	
1,1,2,2-Tetrachloroethane		106	70-130	
Propylbenzene		107	70-130	
4-Ethyltoluene		108	70-130	
1,3,5-Trimethylbenzene		102	70-130	
1,2,4-Trimethylbenzene		105	70-130	
1,3-Dichlorobenzene		102	70-130	
1,4-Dichlorobenzene		104	70-130	
alpha-Chlorotoluene		109	70-130	
1,2-Dichlorobenzene		102	70-130	
1,2,4-Trichlorobenzene		97	70-130	
Hexachlorobutadiene		98	70-130	

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	103	70-130	
1,2-Dichloroethane-d4	102	70-130	
4-Bromofluorobenzene	101	70-130	



Client Sample ID: LCSD Lab ID#: 1508037A-10AA EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	a080705 Date of Collecting 1.00 Date of Analysi	ion: NA is: 8/7/15 12:07 PM
		Method
Compound	%Recovery	Limits
Freon 12	100	70-130
Freon 114	100	70-130
Chloromethane	102	70-130
Vinyl Chloride	97	70-130
1,3-Butadiene	94	70-130
Bromomethane	96	70-130
Chloroethane	99	70-130
Freon 11	98	70-130
Ethanol	97	70-130
Freon 113	89	70-130
1,1-Dichloroethene	88	70-130
Acetone	91	70-130
2-Propanol	103	70-130
Carbon Disulfide	81	70-130
3-Chloropropene	88	70-130
Methylene Chloride	100	70-130
Methyl tert-butyl ether	90	70-130
trans-1,2-Dichloroethene	83	70-130
Hexane	95	70-130
1,1-Dichloroethane	100	70-130
2-Butanone (Methyl Ethyl Ketone)	100	70-130
cis-1,2-Dichloroethene	103	70-130
Tetrahydrofuran	98	70-130
Chloroform	99	70-130
1,1,1-Trichloroethane	97	70-130
Cyclohexane	99	70-130
Carbon Tetrachloride	98	70-130
2,2,4-Trimethylpentane	104	70-130
Benzene	99	70-130
1,2-Dichloroethane	100	70-130
Heptane	100	70-130
Trichloroethene	99	70-130
1,2-Dichloropropane	104	70-130
1,4-Dioxane	99	70-130
Bromodichloromethane	105	70-130
cis-1,3-Dichloropropene	98	70-130
4-Methyl-2-pentanone	108	70-130
Toluene	101	70-130
trans-1,3-Dichloropropene	101	70-130
1,1,2-Trichloroethane	98	70-130
Tetrachloroethene	94	70-130
2-Hexanone	111	70-130



Client Sample ID: LCSD Lab ID#: 1508037A-10AA EPA METHOD TO-15 GC/MS FULL SCAN

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File Name: Dil. Factor:	a080705 1.00	Date of Collect	tion: NA sis: 8/7/15 12:07 PM
	1.00	Date of Analys	Method
Compound		%Recovery	Limits
Dibromochloromethane		100	70-130
1,2-Dibromoethane (EDB)		99	70-130
Chlorobenzene		94	70-130
Ethyl Benzene		95	70-130
m,p-Xylene		102	70-130
o-Xylene		102	70-130
Styrene		103	70-130
Bromoform		100	70-130
Cumene		102	70-130
1,1,2,2-Tetrachloroethane		105	70-130
Propylbenzene		105	70-130
4-Ethyltoluene		102	70-130
1,3,5-Trimethylbenzene		106	70-130
1,2,4-Trimethylbenzene		105	70-130
1,3-Dichlorobenzene		101	70-130
1,4-Dichlorobenzene		103	70-130
alpha-Chlorotoluene		108	70-130
1,2-Dichlorobenzene		102	70-130
1,2,4-Trichlorobenzene		109	70-130
Hexachlorobutadiene		106	70-130

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Surrogates	%Recovery	Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	100	70-130



Client Sample ID: LCS Lab ID#: 1508037A-10B EPA METHOD TO-15 GC/MS FULL SCAN

EPA METHOD TO-15 GC/MS FULL SCAN			
File Name:	3081003	Date of Collect	
Dil. Factor:	1.00	Date of Analy	vsis: 8/10/15 10:48 AM
			Method
Compound		%Recovery	Limits
Freon 12		114	70-130
Freon 114		109	70-130
Chloromethane		68 Q	70-130
Vinyl Chloride		77	70-130
1,3-Butadiene		75	70-130
Bromomethane		97	70-130
Chloroethane		94	70-130
Freon 11		119	70-130
Ethanol		90	70-130
Freon 113		100	70-130
1,1-Dichloroethene		100	70-130
Acetone		91	70-130
2-Propanol		95	70-130
Carbon Disulfide		79	70-130
3-Chloropropene		88	70-130
Methylene Chloride		89	70-130
Methyl tert-butyl ether		98	70-130
trans-1,2-Dichloroethene		84	70-130
Hexane		89	70-130
1,1-Dichloroethane		91	70-130
2-Butanone (Methyl Ethyl Ketone)		90	70-130
cis-1,2-Dichloroethene		100	70-130
Tetrahydrofuran		82	70-130
Chloroform		99	70-130
1,1,1-Trichloroethane		107	70-130
Cyclohexane		92	70-130
Carbon Tetrachloride		112	70-130
2,2,4-Trimethylpentane		91	70-130
Benzene		90	70-130
1,2-Dichloroethane		114	70-130
Heptane		88	70-130
Trichloroethene		96	70-130
1,2-Dichloropropane		81	70-130
1,4-Dioxane		89	70-130
Bromodichloromethane		105	70-130
cis-1,3-Dichloropropene		83	70-130
4-Methyl-2-pentanone		78	70-130
Toluene		82	70-130
trans-1,3-Dichloropropene		102	70-130
1,1,2-Trichloroethane		95	70-130
Tetrachloroethene		103	70-130
2-Hexanone		85	70-130



Client Sample ID: LCS Lab ID#: 1508037A-10B EPA METHOD TO-15 GC/MS FULL SCAN

1

File Name:	3081003	81003 Date of Collection: NA		
Dil. Factor:	1.00	Date of Analys	ate of Analysis: 8/10/15 10:48 AM	
			Method	
Compound		%Recovery	Limits	
Dibromochloromethane		112	70-130	
1,2-Dibromoethane (EDB)		100	70-130	
Chlorobenzene		96	70-130	
Ethyl Benzene		98	70-130	
m,p-Xylene		100	70-130	
o-Xylene		106	70-130	
Styrene		104	70-130	
Bromoform		111	70-130	
Cumene		108	70-130	
1,1,2,2-Tetrachloroethane		89	70-130	
Propylbenzene		103	70-130	
4-Ethyltoluene		111	70-130	
1,3,5-Trimethylbenzene		102	70-130	
1,2,4-Trimethylbenzene		104	70-130	
1,3-Dichlorobenzene		108	70-130	
1,4-Dichlorobenzene		109	70-130	
alpha-Chlorotoluene		95	70-130	
1,2-Dichlorobenzene		103	70-130	
1,2,4-Trichlorobenzene		113	70-130	
Hexachlorobutadiene		111	70-130	

Q = Exceeds Quality Control limits.

		Method
Surrogates	%Recovery	Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	108	70-130



Client Sample ID: LCSD Lab ID#: 1508037A-10BB EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3081004 Date of Collect	
Dil. Factor:	1.00 Date of Analys	is: 8/10/15 11:13 AM
Compound	%Recovery	Method Limits
Freon 12	112	70-130
Freon 114	108	70-130
Chloromethane	66 Q	70-130
Vinyl Chloride	76	70-130
1,3-Butadiene	74	70-130
Bromomethane	97	70-130
Chloroethane	93	70-130
Freon 11	118	70-130
Ethanol	92	70-130
Freon 113	99	70-130
1,1-Dichloroethene	98	70-130
Acetone	93	70-130
2-Propanol	95	70-130
Carbon Disulfide	79	70-130
3-Chloropropene	88	70-130
Methylene Chloride	88	70-130
Methyl tert-butyl ether	98	70-130
trans-1,2-Dichloroethene	84	70-130
Hexane	89	70-130
1,1-Dichloroethane	91	70-130
2-Butanone (Methyl Ethyl Ketone)	89	70-130
cis-1,2-Dichloroethene	101	70-130
Tetrahydrofuran	84	70-130
Chloroform	98	70-130
1,1,1-Trichloroethane	106	70-130
Cyclohexane	92	70-130
Carbon Tetrachloride	110	70-130
2,2,4-Trimethylpentane	89	70-130
Benzene	90	70-130
1,2-Dichloroethane	113	70-130
Heptane	87	70-130
Trichloroethene	95	70-130
1,2-Dichloropropane	80	70-130
1,4-Dioxane	89	70-130
Bromodichloromethane	102	70-130
cis-1,3-Dichloropropene	83	70-130
4-Methyl-2-pentanone	78	70-130
Toluene	80	70-130
trans-1,3-Dichloropropene	101	70-130
1,1,2-Trichloroethane	94	70-130
Tetrachloroethene	100	70-130
2-Hexanone	84	70-130



Client Sample ID: LCSD Lab ID#: 1508037A-10BB EPA METHOD TO-15 GC/MS FULL SCAN

1

File Name:	3081004			
Dil. Factor:	1.00	Date of Analys	sis: 8/10/15 11:13 AM	
Compound		%Recovery	Method Limits	
Compound		,		
Dibromochloromethane		109	70-130	
1,2-Dibromoethane (EDB)		99	70-130	
Chlorobenzene		94	70-130	
Ethyl Benzene		96	70-130	
m,p-Xylene		99	70-130	
o-Xylene		106	70-130	
Styrene		102	70-130	
Bromoform		109	70-130	
Cumene		106	70-130	
1,1,2,2-Tetrachloroethane		88	70-130	
Propylbenzene		101	70-130	
4-Ethyltoluene		108	70-130	
1,3,5-Trimethylbenzene		101	70-130	
1,2,4-Trimethylbenzene		103	70-130	
1,3-Dichlorobenzene		106	70-130	
1,4-Dichlorobenzene		107	70-130	
alpha-Chlorotoluene		94	70-130	
1,2-Dichlorobenzene		102	70-130	
1,2,4-Trichlorobenzene		115	70-130	
Hexachlorobutadiene		112	70-130	

Q = Exceeds Quality Control limits.

		Method
Surrogates	%Recovery	Limits
Toluene-d8	91	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	108	70-130



Client Sample ID: LCS Lab ID#: 1508037A-10C EPA METHOD TO-15 GC/MS

EPA METHOD TO-15 GC/MS			
File Name: Dil. Factor:	14081003 1.00	Date of Collect	ction: NA sis: 8/10/15 09:21 AM
	1.00	Date of Analy	Method
Compound		%Recovery	Limits
Freon 12		103	70-130
Freon 114		103	70-130
Chloromethane		95	70-130
Vinyl Chloride		96	70-130
1,3-Butadiene		83	70-130
Bromomethane		93	70-130
Chloroethane		105	70-130
Freon 11		106	70-130
Ethanol		86	70-130
Freon 113		99	70-130
1,1-Dichloroethene		98	70-130
Acetone		90	70-130
2-Propanol		97	70-130
Carbon Disulfide		82	70-130
3-Chloropropene		95	70-130
Methylene Chloride		96	70-130
Methyl tert-butyl ether		90	70-130
trans-1,2-Dichloroethene		85	70-130
Hexane		99	70-130
1,1-Dichloroethane		97	70-130
2-Butanone (Methyl Ethyl Ketone)		91	70-130
cis-1,2-Dichloroethene		104	70-130
Tetrahydrofuran		99	70-130
Chloroform		103	70-130
1,1,1-Trichloroethane		102	70-130
Cyclohexane		99	70-130
Carbon Tetrachloride		106	70-130
2,2,4-Trimethylpentane		96	70-130
Benzene		94	70-130
1,2-Dichloroethane		104	70-130
Heptane		93	70-130
Trichloroethene		94	70-130
1,2-Dichloropropane		96	70-130
1,4-Dioxane		94	70-130
Bromodichloromethane		102	70-130
cis-1,3-Dichloropropene		99	70-130
4-Methyl-2-pentanone		93	70-130
Toluene		96	70-130
trans-1,3-Dichloropropene		100	70-130
1,1,2-Trichloroethane		100	70-130
Tetrachloroethene		99	70-130
2-Hexanone		98	70-130



Client Sample ID: LCS Lab ID#: 1508037A-10C EPA METHOD TO-15 GC/MS

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File Name: Dil. Factor:	14081003 1.00		Date of Collection: NA Date of Analysis: 8/10/15 09:21 AM	
Compound		%Recovery	Method Limits	
Dibromochloromethane		100	70-130	
1,2-Dibromoethane (EDB)		105	70-130	
Chlorobenzene		101	70-130	
Ethyl Benzene		102	70-130	
m,p-Xylene		103	70-130	
o-Xylene		104	70-130	
Styrene		105	70-130	
Bromoform		107	70-130	
Cumene		104	70-130	
1,1,2,2-Tetrachloroethane		119	70-130	
Propylbenzene		108	70-130	
4-Ethyltoluene		106	70-130	
1,3,5-Trimethylbenzene		113	70-130	
1,2,4-Trimethylbenzene		108	70-130	
1,3-Dichlorobenzene		108	70-130	
1,4-Dichlorobenzene		108	70-130	
alpha-Chlorotoluene		120	70-130	
1,2-Dichlorobenzene		109	70-130	
1,2,4-Trichlorobenzene		118	70-130	
Hexachlorobutadiene		122	70-130	

	21 D	Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130



Client Sample ID: LCSD Lab ID#: 1508037A-10CC EPA METHOD TO-15 GC/MS

EPA METHOD TO-15 GC/MS				
File Name:	14081004	Date of Collection: NA		
Dil. Factor:	1.00	Date of Analysis: 8/10/15		
Compound	%Rec	covery	Method Limits	
Freon 12	1	05	70-130	
Freon 114	1	04	70-130	
Chloromethane	ç	98	70-130	
Vinyl Chloride	ç	92	70-130	
1,3-Butadiene	ç	92	70-130	
Bromomethane	3	38	70-130	
Chloroethane	1	04	70-130	
Freon 11	1	05	70-130	
Ethanol	8	35	70-130	
Freon 113	ç	97	70-130	
1,1-Dichloroethene	Ş	99	70-130	
Acetone	ç	94	70-130	
2-Propanol	ç	98	70-130	
Carbon Disulfide	8	34	70-130	
3-Chloropropene	ç	96	70-130	
Methylene Chloride	Ş	93	70-130	
Methyl tert-butyl ether	ç	90	70-130	
trans-1,2-Dichloroethene	8	34	70-130	
Hexane	1	01	70-130	
1,1-Dichloroethane	1	00	70-130	
2-Butanone (Methyl Ethyl Ketone)	Ş	96	70-130	
cis-1,2-Dichloroethene	1	05	70-130	
Tetrahydrofuran	1	00	70-130	
Chloroform	1	01	70-130	
1,1,1-Trichloroethane	1	01	70-130	
Cyclohexane	1	01	70-130	
Carbon Tetrachloride	1	11	70-130	
2,2,4-Trimethylpentane	ç	97	70-130	
Benzene	ç	94	70-130	
1,2-Dichloroethane	1	04	70-130	
Heptane	ç	94	70-130	
Trichloroethene	ç	92	70-130	
1,2-Dichloropropane	ç	93	70-130	
1,4-Dioxane	ç	99	70-130	
Bromodichloromethane	1	03	70-130	
cis-1,3-Dichloropropene	1	01	70-130	
4-Methyl-2-pentanone		08	70-130	
Toluene	ç	99	70-130	
trans-1,3-Dichloropropene	ç	98	70-130	
1,1,2-Trichloroethane	ç	99	70-130	
Tetrachloroethene	1	00	70-130	
2-Hexanone	ç	95	70-130	



Client Sample ID: LCSD Lab ID#: 1508037A-10CC EPA METHOD TO-15 GC/MS

File Name: Dil. Factor:	14081004 1.00	Date of Collec Date of Analys	tion: NA sis: 8/10/15 09:40 AM
Compound		%Recovery	Method Limits
Dibromochloromethane		101	70-130
1,2-Dibromoethane (EDB)		98	70-130
Chlorobenzene		101	70-130
Ethyl Benzene		100	70-130
m,p-Xylene		100	70-130
o-Xylene		106	70-130
Styrene		108	70-130
Bromoform		106	70-130
Cumene		106	70-130
1,1,2,2-Tetrachloroethane		120	70-130
Propylbenzene		106	70-130
4-Ethyltoluene		104	70-130
1,3,5-Trimethylbenzene		111	70-130
1,2,4-Trimethylbenzene		109	70-130
1,3-Dichlorobenzene		105	70-130
1,4-Dichlorobenzene		104	70-130
alpha-Chlorotoluene		124	70-130
1,2-Dichlorobenzene		107	70-130
1,2,4-Trichlorobenzene		118	70-130
Hexachlorobutadiene		115	70-130

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	104	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	101	70-130	



8/12/2015 Mr. Garrett Kuhl Tetra Tech - GEO 2969 Prospect Park Suite 100 Rancho Cordova CA 95670

Project Name: TERRAMAR-5100 BROADWAY Project #: 117-7429001.06 Workorder #: 1508037B

Dear Mr. Garrett Kuhl

The following report includes the data for the above referenced project for sample(s) received on 8/4/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Killy Butte

Kelly Buettner Project Manager

A Eurofins Lancaster Laboratories Company

180 Blue Ravine Road, Suite B Folsom, CA 95630



WORK ORDER #: 1508037B

Work Order Summary

CLIENT:	Mr. Garrett Kuhl Tetra Tech - GEO 2969 Prospect Park Suite 100 Rancho Cordova, CA 95670	BILL TO:	Mr. Garrett Kuhl Tetra Tech - GEO 2969 Prospect Park Suite 100 Rancho Cordova, CA 95670
PHONE:	916-853-1800	P.O. #	
FAX:	916-853-1860	PROJECT #	117-7429001.06 TERRAMAR-5100
DATE RECEIVED:	08/04/2015	CONTACT:	BROADWAY Kelly Buettner
DATE COMPLETED:	08/12/2015		Then y Ductaion

			KECEIPI	FINAL
FRACTION #	<u>NAME</u>	TEST	VAC./PRES.	PRESSURE
01A	DC-VMP-2-5'	Modified ASTM D-1946	2.4 "Hg	15 psi
02A	DC-VMP-3-5'	Modified ASTM D-1946	3.7 "Hg	15 psi
03A	DC-VMP-4-5'	Modified ASTM D-1946	3.9 "Hg	15 psi
04A	DC-VMP-5-5'	Modified ASTM D-1946	2.2 "Hg	15.3 psi
05A	DC-VMP-6-5'	Modified ASTM D-1946	4.3 "Hg	15 psi
06A	DC-VMP-7-5'	Modified ASTM D-1946	3.9 "Hg	15.1 psi
07A	DC-VMP-8-5'	Modified ASTM D-1946	3.7 "Hg	14.9 psi
08A	Lab Blank	Modified ASTM D-1946	NA	NA
09A	LCS	Modified ASTM D-1946	NA	NA
09AA	LCSD	Modified ASTM D-1946	NA	NA

layes

08/12/15 DATE:

DECEIDT

FINAT

Technical Director

CERTIFIED BY:

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015. Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

> This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc. 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

🛟 eurofins

LABORATORY NARRATIVE Modified ASTM D-1946 Tetra Tech - GEO Workorder# 1508037B

Seven 1 Liter Summa Canister samples were received on August 04, 2015. The laboratory performed analysis via Modified ASTM Method D-1946 for Helium in air using GC/TCD. The method involves direct injection of 1.0 mL of sample.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	ASTM D-1946	ATL Modifications	
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A minimum of 5-point calibration curve is performed. Quantitation is based on average Response Factor.	
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	accuracy.	
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.	
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	values can differ from 100% by as much as 15%, eithe due to analytical variability or an unusual sample matr g by inal the uld %	
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.	

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.



Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Summary of Detected Compounds NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: DC-VMP-2-5'

Lab ID#: 1508037B-01A No Detections Were Found.

Client Sample ID: DC-VMP-3-5'

Lab ID#: 1508037B-02A

	Rpt. Limit	Amount
Compound	(%)	(%)
Helium	0.12	5.4

Client Sample ID: DC-VMP-4-5'

Lab ID#: 1508037B-03A

No Detections Were Found.

Client Sample ID: DC-VMP-5-5'

Lab ID#: 1508037B-04A

No Detections Were Found.

Client Sample ID: DC-VMP-6-5'

Lab ID#: 1508037B-05A

No Detections Were Found.

Client Sample ID: DC-VMP-7-5'

Lab ID#: 1508037B-06A No Detections Were Found.

Client Sample ID: DC-VMP-8-5'

Lab ID#: 1508037B-07A No Detections Were Found.



Client Sample ID: DC-VMP-2-5' Lab ID#: 1508037B-01A NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9081208b 2.20		ection: 8/4/15 11:35:00 AM ysis: 8/12/15 11:34 AM
Compound		Rpt. Limit (%)	Amount (%)
Helium		0.11	Not Detected

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Client Sample ID: DC-VMP-3-5' Lab ID#: 1508037B-02A NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9081209b 2.30		ction: 8/4/15 11:53:00 AM sis: 8/12/15 11:57 AM
Compound		Rpt. Limit (%)	Amount (%)
Helium		0.12	5.4

٦



Client Sample ID: DC-VMP-4-5' Lab ID#: 1508037B-03A NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9081210b 2.32		ction: 8/4/15 12:12:00 PM /sis: 8/12/15 12:33 PM
Compound		Rpt. Limit (%)	Amount (%)
Helium		0.12	Not Detected

٦



Client Sample ID: DC-VMP-5-5' Lab ID#: 1508037B-04A NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9081211b 2.20		ction: 8/4/15 12:34:00 PM /sis: 8/12/15 01:05 PM
Compound		Rpt. Limit (%)	Amount (%)
Helium		0.11	Not Detected

٦



Client Sample ID: DC-VMP-6-5' Lab ID#: 1508037B-05A NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9081212b 2.36		ction: 8/4/15 12:58:00 PM ysis: 8/12/15 01:53 PM
Compound		Rpt. Limit (%)	Amount (%)
Helium		0.12	Not Detected

٦



Client Sample ID: DC-VMP-7-5' Lab ID#: 1508037B-06A NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081213b		ction: 8/4/15 1:17:00 PM
Dil. Factor:	2.91	Rpt. Limit	vsis: 8/12/15 02:31 PM Amount
Compound		(%)	(%)
Helium		0.14	Not Detected

٦



Client Sample ID: DC-VMP-8-5' Lab ID#: 1508037B-07A NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9081214b 2.29		ection: 8/4/15 1:38:00 PM ysis: 8/12/15 02:55 PM
Compound		Rpt. Limit (%)	Amount (%)
Helium		0.11	Not Detected

٦



Client Sample ID: Lab Blank Lab ID#: 1508037B-08A NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9081203b 1.00	Date of Colle Date of Analy	ction: NA vsis: 8/12/15 09:08 AM
Compound		Rpt. Limit (%)	Amount (%)
Helium		0.050	Not Detected

٦

Container Type: NA - Not Applicable



Client Sample ID: LCS Lab ID#: 1508037B-09A NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9081202b 1.00	Date of Collec Date of Analy	ction: NA sis: 8/12/15 08:44 AM
Compound		%Recovery	Method Limits
Helium		102	85-115

Container Type: NA - Not Applicable



Client Sample ID: LCSD Lab ID#: 1508037B-09AA NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

			•
File Name:	9081215b	Date of Collec	tion: NA
Dil. Factor:	1.00	Date of Analy	sis: 8/12/15 03:18 PM
			Method
Compound		%Recovery	Limits
Helium		102	85-115

Container Type: NA - Not Applicable

3249 Fitzgerald Road Rancho Cordova, CA 95742

September 16, 2015

CLS Work Order #: CYI0462 COC #:

Tim Costello Tetra Tech Geo 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670

Project Name: Terramar 5100 Broadway

Enclosed are the results of analyses for samples received by the laboratory on 09/11/15 11:00. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

= fig

James Liang, Ph.D. Laboratory Director

Page 1 of 102

09/16/15 10:53

Tetra Tech Geo	Project: Terramar 5100 Broadway	у
2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670	Project Number: [none] Project Manager: Tim Costello	CLS Work Order #: CYI0462 COC #:

		Report To:				t Job Numb 7429001.08			AN	AL	YSIS	REO	UESTED	GB	OTR	CKE	D	
Fetra T	ech Inc	2969 Prospect Par	k Dr.			tion Labora		1				T		1				
		Rancho Cordova,	CA 9567()	Mau				/OCs						FRE			YES NO
oject Ma 'im Co		imothy.costello@te	tratech.co	em)	3249	§ (916) 6 Fitzgerald ho Cordov	Road	PRESERVATIVES	Full S					10000	^{OBAI}		000	07048
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impled B eith Hoof	y ard/Brian St	rand			🗆 отя	FD.		MAT	\$260									
b Descrip 100 Broad		endum to Additional Site Cha	racterization			ER		VES	В									
ugust 31, 2015 Addendum Work Plan																		
e Locatio 00 Broad	m lway Oaklar	d, CA														AROU IN D/		SPECIAL INSTRUCTIONS
ATE	TIME	SAMPLE IDENTIFICATI	ON I	FIELD ID.			AINER	•						1	2	3	5	
815	0839	DC-SB-15- 12		10.	SOIL	NO.	TYPE	3.	x	÷.,	\vdash	+			2	X		
	0850	DC-SB-15- 17'			SOIL	i	TUBE	3	X	-	\vdash	+	+	+		X		
0117	00.00	DC-SB-15-			SOIL		TUBE	3	x	-	Ħ	+	++	-		X		¥
ક્રાઇ	1040	DC-SB-16-08			SOIL	1	TUBE	3	X	-	\vdash	+	++	+-		X		9
815		DC-SB-16-13			SOIL	1	TUBE	3	X		\vdash	+	++	+-		X		
8/15		DC-SB-16- 15			SOIL	1	TUBE	3	X	-	\vdash	+	++	+		X		
8/15	1318	DC-SB-17-12			SOIL	1	TUBE	3	X	-	\vdash	+	++	+-	-	X		INVOICE TO:
8/15		DC-SB-17-15			SOIL	1	TUBE	3	X		\vdash	+	++	+	-	X		
-11-2	1001	DC-SB-17-			SOIL		TUBE	3	X							X		-Li
8/15	1452	DC-SB-18-11-5			SOIL	1	TUBE	3	X		\vdash	+		-		X		-L
	1500	DC-SB-18-17			SOIL	1	TUBE	3	X		\vdash	+	++	\vdash		X		PO#
011.)	1700	DC-SB-18-			SOIL	1	TUBE	3	X			=		-	-	x		OLIOTEA M
SPECT	ED CONST	ITUENTS						-		APLE	RETE	NTION	TIME	PR	ESER			1) HCL (3) = COLD 2) HNO ₁ (4)= H2SO4
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Jeel	\$ yh	9/	ofard/Te		. 9].	ILIS OBS	4	21	Þ	A	h	m			Bil	5	nier Telated	
21	1h	n	<u>(5911 2</u>	hoyer	Pherton	_ V/m	151100											
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09/16/15 10:53

Tech Geo Prospect Park Dri		Project: Terramar 5100 Broadway Project Number: [none] CLS Work Order #: CY10462														
no Cordova, CA 9	5670			r.		r: Tim Co	ostell	0			С	OC #	<i>‡</i> :			
CALIFOR	NIA LABORA	TORY S	ERVIC	ES CHAIN	OF CU	STODY		CLS	ID. NO	<u> </u>	<u>I</u>	24	W	2-	2	<u> </u>
	Report To:				t Job Numl 7429001.0			ANA	LYSIS R	EQUES	TED	GĐ	OTRA	СКЕ	R	
Tetra Tech	nc. 2969 Prospect P	ark Dr			tion Labor		1			TT	Τ					
	Rancho Cordova	a, CA 956'	70				-	VOCs Full Scan (8260B)					EDF REPORT YES NO			
Project Manager				CL 🛛				SF				GLOBAL ID. T10000007049				
	(timothy.costello@	tetratech.	com)		Fitzgeral		70	Ē				10,000	T10000007048 FIELD CONDITIONS:			
Project Name Terramor	5100 Broadway			9574	ho Cordo 2	va, CA	RES	Sca				FIE	LDCC	NDI	TIONS	S:
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Keith Hoofard/Bria	n Strand			отн	ED.		ATI	26								
Job Description 5100 Broadway	Addendum to Additional Sit	e Characterizat	ion		EK		VES	BC								
August 31, 2015 Addendum Work Plan							, i									
Site Location 5100 Broadway Oakland, CA													URNA IME I			SPECIAL INSTRUCTIONS
	SAMPLE		FIELD		CON	TAINER						L-			115	INSTRUCTIONS
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7915 683				SOIL	1	TUBE	3	X						Х		
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9/9/15/104				SOIL	1	TUBE	3	X						Х		INVOICE TO:
9 9/15 105				SOIL	1	TUBE	3	X						Х		
9915 110	3 DC-SB-21- <u>17</u>			SOIL	1	TUBE	3	X						Х		
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	DC-SB-22		1. S.S	SOIL		TUBE	3	Х				-		Х		POI
	DC-SB-22			SOIL	-	TUBE	3-	X	-		-	_		Х		QUOTER YOH 9/1
SUSPECTED CO	STITUENTS							SAMP	LE RETENT	ION TIM	E	PRE	SERV	ATI		1) HCL (3) = COLD 2) HNO ₅ (4)= H2SO4
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CA DOHS ELAP Accreditation/Registration Number 1233

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a Tech Geo					Project		mar	5100	Broad	way						
Prospect Par	k Drive,	Suite 100		v		[none]								Ord	ler #	4: CYI0462
cho Cordova,	CA 9567	70		Project	Manager	: Tim Co	ostelle	0			С	OC #:				
Call	FORNI	A LABORATORY	SERVIC	ES CHAIN	OF CU	STODY		CLS	ID. N	o. <u>C</u>	¥Ľ€	HG	J.	-3		(3_of 4_)
		Report To:			t Job Numb 7429001.0			ANA	LYSIS	REQU	UESTED	GEO	TRAC	KER		
Tetra	Fech Inc.	2969 Prospect Park Dr		Destina	tion Labora	atory	1		Π		TT	600	BERG		1	YES NO
		Rancho Cordova, CA 956	570	_			PRESERVATIVES	00				EDF REPORT YES NO				
Project Ma	nager			CL:				sE				10000			00'	7049
		imothy.costello@tetratech	.com)		Fitzgeral ho Cordo		무					1040707				7048
Project Na Terrar		00 Broadway		9574	2		RESE	ican				FIEL	0.00	NDIT	ONS:	
Sampled B				www.ca	lifornialal	b.com	RV.	(82								
Job Descri	Job Description 5100 Broadway – Addendum to Additional Site Characterization August 31, 2015 Addendum Work Plan Site Location				ER		NIN	60E								
							S	۳I								
Site Location S100 Broadway Oakland, CA '														ROUN N DAY		SPECIAL INSTRUCTIONS
DATE TIME SAMPLE		FIELD		CON	TAINER						1	2	3	5		
		IDENTIFICATION	ID.	MATRIX	NO.	TYPE	V		+		\downarrow	<u> </u>			~	
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9/0/15		DC-SB-23-		SOIL			3	X		_	++	-		X		
	6925	DC-SB-24- <u>9.5</u>		SOIL	-1	TUBE	3	X		_	++	\square		X		
9/10/15	0931	DC-SB-24-13.5		SOIL	1	TUBE	3	Х		_	+			X		
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*	1414	DC-SB-26-14-5		SOIL		TUBE	3	Х						X		POUL
		DC-SB-26		SOIL		TUBE	3	X					-	X ~	14	QUOTEN
SUSPECT	SUSPECTED CONSTITUENTS							SAMP	LE RETE	NTION	TIME	PRE	SERV	ATIVE		HCL (3) = COLD HNO ₃ (4)= H2SO4
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				1.1		15 1100	15	NDITIC	0NS/COM	MENT	S:					
SHIPPED BY: FED EX UPS			- E	A OTHER:												

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742

www.californialab.com

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

		Report To:			nt Job Numb -7429001.0			ÀN	ALYS	SIS RI	EQUE	STED	GE	OTR/	CKE	R			
Tetra	Fech Inc	. 2969 Prospect Park Dr.		Destina	ution Labora	itory	1			Τ	Π		- 	F REI	OPT		YES D NO		
		Rancho Cordova, CA 95	670	🛛 CL	S (016)	28.7201	1	VOCs Full Scan (8260B)						OBAI					
roject Ma		imothy.costello@tetratecl	(com)		Fitzgeral			E					T	T1000007048					
roject Na		inioury.costenoigtenateer	isonij		cho Cordo	va, CA	R	S					1040			ITIONS			
Terrar ampled B		00 Broadway		9574 www.ca	¥2 lifornialal	o.com	SEF	Ē											
	y fard/Brian S	trand		_			A	820											
b Descri 100 Brea		endum to Additional Site Characteriza	tion] 🗆 отн	IER		PRESERVATIVES	ý0B											
ugust	31, 201	5 Addendum Work Plan						ſ											
te Locati 100 Brea	on Iway Oaklar	ad, CA												URN IME			SPECIAL INSTRUCTIONS		
DATE	TIME	SAMPLE	FIELD		CON	TAINER							1	2	3	5			
		IDENTIFICATION	ID.	MATRIX	NO.	TYPE			_	_	\square	_	<u> </u>		, i	Ľ			
8 15	0910	DC-SB-15-GW		WATER	. 3	VOA	3	Х			\square				х				
815	1130	DC-SB-16-GW		WATER	3	VOA	1/ 3	х							Х				
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9 15	0913	DC-SB-20-GW		WATER	- 3	VOA	1/3	х			\square				X				
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10/5	1254	DC-SB-25-GW		WATER	3	VOA	1/	х			\square				х		PO#		
10/15	1435	DC-SB-26-GW		WATER	3	VOA	1/3	х			\square				х		QUOTE#		
USPECT	ED CONST	ITUENTS				1.11		SAM	PLE R	TENT	ON TB	1E	PRI	ESER	/ATI	VES (I	 HCL (3) = COLD HNO; (4)= H2SO4 		
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1 mg	R J		Hoofard/Te	tra Tech	91.	1/5 085		ħ4	1.0		a	~			Te	hai	Teh Of Sha		
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09/16/15 10:53

Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-15-12' (CYI0462-01) Soil Sampled: 09	/08/15 08:39 R	eceived: 09/11,	/15 11:00)					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06276	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113)	ND	5.0	"				"	"	
1,1,2-Trichloroethane	ND	5.0				"			
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	120	100	"	"		"	"		
Benzene	ND	5.0	"	"	"	"	"		
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"		"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-15-12' (CYI0462-01) Soil	Sampled: 09/08/15 08:39	Received: 09/11	/15 11:00)					
Bromoform	ND	5.0	µg/kg	1	CY06276		09/11/15	EPA 8260B	
Bromomethane	ND	10	"	"	"	"	"		
Carbon tetrachloride	ND	5.0	"	"	"	"	"		
Chlorobenzene	ND	5.0	"	"	"	"	"		
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"		"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"		
p-Chlorotoluene	ND	5.0		"	"	"	"		
p-Isopropyltoluene	ND	5.0	"	"		"	"		
sec-Butylbenzene	ND	5.0		"	"	"	"		
Styrene	ND	5.0	"	"		"	"		
tert-Butylbenzene	ND	5.0	"	"		"	"		
Tetrachloroethene	ND	5.0		"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	5.0	"	"	"		"		
trans-1,3-Dichloropropene	ND	5.0	"	"		"	"		
Trichloroethene	ND	5.0	"	"	"	"	"		

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-15-12' (CYI0462-01) Soil	Sampled: 09/08/15 08:39	Received: 09/11	/15 11:0	0					
Trichlorofluoromethane	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
Vinyl chloride	ND	10		"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		125 %	50)-125	"		"	"	
Surrogate: 4-Bromofluorobenzene		112 %	50)-128	"	"	"	"	
Surrogate: Toluene-d8		93 %	62	2-125	"	"	"	"	
DC-SB-15-17' (CY10462-02) Soil	Sampled: 09/08/15 08:50	Received: 09/11	/15 11:0	0					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06276	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"		"	"	"		
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"		
(Freon 113) 1,1,2-Trichloroethane	ND	5.0			"		"	"	
1.1-Dichloroethane	ND	5.0		"	"		"		
1,1-Dichloroethene	ND	5.0							
1,1-Dichloropropene	ND	5.0		"	"		"		
1,2,3-Trichlorobenzene	ND	5.0		"	"		"		
1,2,3-Trichloropropane	ND	5.0		"	"	"	"		
1,2,4-Trichlorobenzene	ND	5.0			"	"	"		
1,2,4-Trimethylbenzene	ND	5.0		"	"		"		
1,2-Dibromo-3-chloropropane	ND	10		"	"	"	"		
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"		
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,2-Dichloroethane	ND	5.0	"	"	"	"	"		
1,2-Dichloropropane	ND	5.0	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"		
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,3-Dichloropropane	ND	5.0	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"		

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-15-17' (CYI0462-02) Soil S	Sampled: 09/08/15 08:50	Received: 09/11	/15 11:00)					
2,2-Dichloropropane	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
2-Butanone	ND	100	"	"	"	"	"		
2-Hexanone	ND	50	"	"	"	"	"		
4-Methyl-2-pentanone	ND	50	"	"	"	"	"		
Acetone	ND	100	"	"	"	"	"		
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0		"	"	"	"		
Bromodichloromethane	ND	5.0	"	"	"	"	"		
Bromoform	ND	5.0	"	"	"	"	"		
Bromomethane	ND	10	"	"	"	"	"		
Carbon tetrachloride	ND	5.0	"	"	"	"	"		
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"		
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0		"	"	"	"		
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"		
Ethylbenzene	ND	5.0	"	"	"	"	"		
Hexachlorobutadiene	ND	5.0	"	"	"	"	"		
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"		
n-Butylbenzene	ND	5.0		"	"	"	"	"	
n-Propylbenzene	ND	5.0		"	"	"	"	"	
o-Chlorotoluene	ND	5.0		"	"	"	"	"	
p-Chlorotoluene	ND	5.0		"	"	"	"	"	

CALIFORNIA **L**ABORATORY **S**ERVICES

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-15-17' (CYI0462-02) Soil S	ampled: 09/08/15 08:50	Received: 09/11	/15 11:00	0					
p-Isopropyltoluene	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		136 %	50)-125	"		"	"	QS-H
Surrogate: 4-Bromofluorobenzene		114 %)-128	"	"	"	"	2
Surrogate: Toluene-d8		96 %		-125	"	"	"	"	
DC-SB-16-08' (CYI0462-03) Soil S	ampled: 09/08/15 10:40	Received: 09/11	/15 11:00	0					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06276	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"		
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"		
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-16-08' (CYI0462-03) Soil	Sampled: 09/08/15 10:40	Received: 09/11	/15 11:00						
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"		"	"	"		
2,2-Dichloropropane	ND	5.0	"		"	"	"		
2-Butanone	ND	100		"	"	"	"	"	
2-Hexanone	ND	50		"	"	"	"	"	
4-Methyl-2-pentanone	ND	50		"	"	"	"	"	
Acetone	ND	100		"	"	"	"	"	
Benzene	ND	5.0		"	"	"	"	"	
Bromobenzene	ND	5.0			"	"	"	"	
Bromochloromethane	ND	5.0		"	"	"	"	"	
Bromodichloromethane	ND	5.0		"	"	"	"	"	
Bromoform	ND	5.0		"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0		"	"	"	"	"	
Chlorobenzene	ND	5.0		"	"	"	"	"	
Chloroethane	ND	5.0			"	"	"	"	
Chloroform	ND	5.0	"		"		"	"	
Chloromethane	ND	10	"		"		"	"	
cis-1,2-Dichloroethene	ND	5.0	"		"		"	"	
cis-1,3-Dichloropropene	ND	5.0	"		"		"	"	
Dibromochloromethane	ND	5.0	"		"		"	"	
Dibromomethane	ND	5.0	"		"	"	"	"	
Dichlorodifluoromethane (Freon 12)) ND	10	"		"	"	"		
Ethylbenzene	ND	5.0		"	"			"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-16-08' (CYI0462-03) Soil	Sampled: 09/08/15 10:40	Received: 09/11	/15 11:00)					
Hexachlorobutadiene	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"		
Methylene chloride	ND	20	"	"	"	"	"		
Naphthalene	ND	5.0	"	"	"	"	"		
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		131 %	50	-125	"	"	"	"	QS-
Surrogate: 4-Bromofluorobenzene		107 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		97 %	62	-125	"	"	"	"	

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	Tetra Tech Geo	Project: Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-16-13' (CYI0462-04) Soil Sampled: 09	0/08/15 10:50 Re	ceived: 09/11	/15 11:00)					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06276	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		"	"	"	"	"	
(Freon 113)									
1,1,2-Trichloroethane	ND	5.0			"	"	"	"	
1,1-Dichloroethane	ND	5.0		"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0		"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10		"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,3-Dichloropropane	ND	5.0		"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0		"		"	"	"	
2,2-Dichloropropane	ND	5.0		"	"	"	"	"	
2-Butanone	ND	100	"		"	"	"	"	
2-Hexanone	ND	50			"	"	"		
4-Methyl-2-pentanone	ND	50	"		"		"		
Acetone	ND	100			"		"	"	
Benzene	ND	5.0	"		"		"	"	
Bromobenzene	ND	5.0			"	"	"	"	
Bromochloromethane	ND	5.0			"		"	"	
Bromodichloromethane	ND	5.0	"		"		"		

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-16-13' (CYI0462-04) Soil	Sampled: 09/08/15 10:50	Received: 09/11	/15 11:00)					
Bromoform	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"		
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"		
Dibromochloromethane	ND	5.0		"	"		"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"		"	"	
Isopropylbenzene	ND	5.0	"	"	"		"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"		"		
Naphthalene	ND	5.0	"	"	"		"	"	
n-Butylbenzene	ND	5.0	"	"	"		"	"	
n-Propylbenzene	ND	5.0	"	"	"		"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"		
p-Chlorotoluene	ND	5.0		"	"	"	"		
p-Isopropyltoluene	ND	5.0	"	"			"		
sec-Butylbenzene	ND	5.0		"	"		"		
Styrene	ND	5.0		"	"	"	"		
tert-Butylbenzene	ND	5.0		"	"	"	"		
Tetrachloroethene	ND	5.0		"	"	"	"		
Toluene	ND	5.0	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	5.0		"	"		"		
trans-1,3-Dichloropropene	ND	5.0		"	"		"		
Trichloroethene	ND	5.0		"	"		"		
		2.0							

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ſ	Tetra Tech Geo	Project:	Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	[none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-16-13' (CY10462-04) Soil Sampled: 09/0	08/15 10:50	Received: 09/11	/15 11:00)					
Trichlorofluoromethane	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
Vinyl chloride	ND	10	"	"	"	"	"		
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		132 %	50	-125	"		"	"	QS-HI
Surrogate: 4-Bromofluorobenzene		118 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		96 %	62	-125	"		"	"	
DC-SB-16-15' (CYI0462-05) Soil Sampled: 09/0	08/15 10:57	Received: 09/11	/15 11:00)					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06276	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"		
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"		
(Freon 113)	ND	5.0					"	"	
1,1,2-Trichloroethane									
1,1-Dichloroethane	ND	5.0							
1,1-Dichloroethene	ND ND	5.0							
1,1-Dichloropropene	ND	5.0							
1,2,3-Trichlorobenzene	ND	5.0							
1,2,3-Trichloropropane		5.0	"				"		
1,2,4-Trichlorobenzene	ND	5.0							
1,2,4-Trimethylbenzene	ND ND	5.0 10	"				"		
1,2-Dibromo-3-chloropropane	ND		"		"		"		
1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene	ND ND	5.0 5.0							
1,2-Dichloroethane	ND	5.0 5.0							
	ND	5.0 5.0							
1,2-Dichloropropane	ND ND	5.0 5.0							
1,3,5-Trimethylbenzene	ND	5.0 5.0							
1,3-Dichlorobenzene	ND	5.0 5.0							
1,3-Dichloropropane 1,4-Dichlorobenzene	ND ND	5.0 5.0				"			

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-16-15' (CYI0462-05) Soil S	ampled: 09/08/15 10:57	Received: 09/11	/15 11:00)					
2,2-Dichloropropane	ND	5.0	μg/kg	1	CY06276	"	09/11/15	EPA 8260B	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	150	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"		
Bromobenzene	ND	5.0	"	"	"	"	"		
Bromochloromethane	ND	5.0	"	"	"	"	"		
Bromodichloromethane	ND	5.0	"	"	"	"	"		
Bromoform	ND	5.0	"	"	"	"	"		
Bromomethane	ND	10	"	"	"	"	"		
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"		
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"		
Isopropylbenzene	ND	5.0	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"		
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"		
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	

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1,2,3-Trichlorobenzene

1,2,3-Trichloropropane

1,2,4-Trichlorobenzene

1,2,4-Trimethylbenzene

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	Tetra Tech Geo	Project: Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-16-15' (CYI0462-05) Soil Sai	mpled: 09/08/15 10:57	Received: 09/11	/15 11:00)					
p-Isopropyltoluene	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0		"	"	"	"	"	
tert-Butylbenzene	ND	5.0		"	"	"	"	"	
Tetrachloroethene	ND	5.0		"	"	"	"	"	
Toluene	ND	5.0		"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		138 %	50	-125	"		"	"	QS-4
Surrogate: 4-Bromofluorobenzene		108 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		95 %	62	-125	"	"	"	"	
DC-SB-17-12' (CYI0462-06) Soil Sat	mpled: 09/08/15 13:18	Received: 09/11	/15 11:00)					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06276	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113) 1,1,2-Trichloroethane	ND	5.0	"	"	"	"		"	
1,1-Dichloroethane	ND	5.0			"	"	"		
1,1-Dichloroethene	ND	5.0	"			"			
1,1-Dichloropropene	ND	5.0	"				"		

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-17-12' (CYI0462-06) Soil	Sampled: 09/08/15 13:18	Received: 09/11	/15 11:00						
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0		"	"		"	"	
1,2-Dichloroethane	ND	5.0		"	"		"	"	
1,2-Dichloropropane	ND	5.0		"	"		"	"	
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"		"	"	"	"	
2,2-Dichloropropane	ND	5.0	"		"	"	"	"	
2-Butanone	ND	100		"	"		"	"	
2-Hexanone	ND	50		"	"		"	"	
4-Methyl-2-pentanone	ND	50		"	"		"	"	
Acetone	ND	100		"	"		"	"	
Benzene	ND	5.0		"	"	"	"	"	
Bromobenzene	ND	5.0		"	"	"	"	"	
Bromochloromethane	ND	5.0		"	"		"	"	
Bromodichloromethane	ND	5.0		"	"		"	"	
Bromoform	ND	5.0		"	"	"	"	"	
Bromomethane	ND	10		"	"		"	"	
Carbon tetrachloride	ND	5.0		"	"		"	"	
Chlorobenzene	ND	5.0		"	"		"	"	
Chloroethane	ND	5.0		"	"		"	"	
Chloroform	ND	5.0	"		"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"		"	"	"	"	
Dibromomethane	ND	5.0	"		"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"		"	"	"	"	
Ethylbenzene	ND	5.0		"	"			"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-17-12' (CYI0462-06) Soil	Sampled: 09/08/15 13:18	Received: 09/11	/15 11:00)					
Hexachlorobutadiene	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"		
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"		
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		129 %	50	-125	"	"	"	"	QS-
Surrogate: 4-Bromofluorobenzene		107 %	50	-128	"		"	"	
Surrogate: Toluene-d8		99 %	62	-125	"	"	"	"	

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	Tetra Tech Geo	Project: Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-17-15' (CYI0462-07) Soil Sampled: 09	0/08/15 13:21 Re	ceived: 09/11	/15 11:00)					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06276	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113)									
1,1,2-Trichloroethane	ND	5.0			"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0		"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0		"	"	"	"	"	
2,2-Dichloropropane	ND	5.0		"	"	"	"	"	
2-Butanone	ND	100	"		"	"	"	"	
2-Hexanone	ND	50	"		"	"	"	"	
4-Methyl-2-pentanone	ND	50	"		"		"	"	
Acetone	ND	100	"		"		"		
Benzene	ND	5.0	"		"		"		
Bromobenzene	ND	5.0	"		"		"		
Bromochloromethane	ND	5.0			"	"	"	"	
Bromodichloromethane	ND	5.0			"		"		

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-17-15' (CYI0462-07) Soil	Sampled: 09/08/15 13:21	Received: 09/11	/15 11:00)					
Bromoform	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0		"	"	"	"	"	
Chloroethane	ND	5.0		"	"	"	"	"	
Chloroform	ND	5.0		"	"	"	"	"	
Chloromethane	ND	10		"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"		"	"	"		
Dibromochloromethane	ND	5.0	"		"	"	"	"	
Dibromomethane	ND	5.0		"	"		"	"	
Dichlorodifluoromethane (Freon 12)	ND	10		"	"	"	"	"	
Ethylbenzene	ND	5.0		"	"		"	"	
Hexachlorobutadiene	ND	5.0		"	"		"	"	
Isopropylbenzene	ND	5.0		"	"		"	"	
Methyl tert-butyl ether	ND	5.0		"	"		"	"	
Methylene chloride	ND	20		"	"	"	"	"	
Naphthalene	ND	5.0		"	"		"	"	
n-Butylbenzene	ND	5.0		"	"		"	"	
n-Propylbenzene	ND	5.0		"	"		"	"	
o-Chlorotoluene	ND	5.0		"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"		"	"	"	"	
sec-Butylbenzene	ND	5.0	"		"	"	"	"	
Styrene	ND	5.0	"		"	"	"	"	
tert-Butylbenzene	ND	5.0	"		"	"	"	"	
Tetrachloroethene	ND	5.0	"		"	"	"	"	
Toluene	ND	5.0	"		"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"		"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"		"	"	"	"	
Trichloroethene	ND	5.0	"		"	"	"	"	

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ſ	Tetra Tech Geo	Project: Terramar 5100 Broadway	у
	2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-17-15' (CYI0462-07) Soil	Sampled: 09/08/15 13:21	Received: 09/11	1/15 11:0)					
Trichlorofluoromethane	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		135 %	50	-125	"		"	"	QS-HI
Surrogate: 4-Bromofluorobenzene		116 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		98 %	62	-125	"	"	"	"	
DC-SB-18-11.5' (CYI0462-08) Soil	Sampled: 09/08/15 14:5	2 Received: 09/	11/15 11:	00					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06276	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		"	"	"	"		
(Freon 113) 1,1,2-Trichloroethane	ND	5.0	"	"	"			"	
1,1-Dichloroethane	ND	5.0		"	"	"	"		
1,1-Dichloroethene	ND	5.0		"	"	"	"	"	
1,1-Dichloropropene	ND	5.0		"	"		"		
1,2,3-Trichlorobenzene	ND	5.0		"	"	"	"		
1,2,3-Trichloropropane	ND	5.0	"	"	"		"		
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0		"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10		"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"		
1,2-Dichloropropane	ND	5.0	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,3-Dichloropropane	ND	5.0	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0		"	"	"	"	"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-18-11.5' (CYI0462-08) Soil	Sampled: 09/08/15 14:52	Received: 09/	11/15 11:	00					
2,2-Dichloropropane	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"		"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0		"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0		"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"		"	"	"	"	
Ethylbenzene	ND	5.0	"		"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"		"	"	"		
Methyl tert-butyl ether	ND	5.0	"		"	"	"	"	
Methylene chloride	ND	20	"		"	"	"		
Naphthalene	ND	5.0	"		"	"	"		
n-Butylbenzene	ND	5.0	"		"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"		"	"	"	"	

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1,2,3-Trichloropropane

1,2,4-Trichlorobenzene

1,2,4-Trimethylbenzene

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-18-11.5' (CYI0462-08) Soil	Sampled: 09/08/15 14:52	Received: 09/	11/15 11:	00					
p-Isopropyltoluene	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		132 %	50	-125	"	"	"	"	QS-HI
Surrogate: 4-Bromofluorobenzene		115 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		98 %	62	-125	"	"	"	"	
DC-SB-18-17' (CYI0462-09) Soil	Sampled: 09/08/15 15:00	Received: 09/11	1/15 11:00)					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06276	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"		
(Freon 113)									
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"		
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"		"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-18-17' (CYI0462-09) Soil	Sampled: 09/08/15 15:00	Received: 09/11	/15 11:00)					
1,2-Dibromo-3-chloropropane	ND	10	$\mu g/kg$	1	CY06276	"	09/11/15	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0		"	"	"	"	"	
2,2-Dichloropropane	ND	5.0		"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	130	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"		
Chloromethane	ND	10		"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"		
Dibromochloromethane	ND	5.0		"	"		"	"	
Dibromomethane	ND	5.0		"	"		"	"	
Dichlorodifluoromethane (Freon 12) ND	10	"	"	"		"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	

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Tetra Tech Geo	Project:	Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	[none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-18-17' (CYI0462-09) Soil	Sampled: 09/08/15 15:00	Received: 09/11	/15 11:00)					
Hexachlorobutadiene	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"		
Methylene chloride	ND	20	"	"	"	"	"		
Naphthalene	ND	5.0	"	"	"	"	"		
n-Butylbenzene	5.3	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"		
Trichlorofluoromethane	ND	5.0	"	"	"	"	"		
Vinyl chloride	ND	10	"	"	"	"	"		
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		131 %	50	-125	"	"	"	"	Q
Surrogate: 4-Bromofluorobenzene		123 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		99 %	62	-125	"		"	"	

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	Tetra Tech Geo	Project:	Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	[none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-25-19' (CYI0462-10) Soil Sampled: 09/	/10/15 11:50 Re	ceived: 09/11	/15 11:00						
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06276	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113)		- 0							
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"		"	"	"		
Benzene	ND	5.0	"		"	"	"		
Bromobenzene	ND	5.0	"		"	"	"	"	
Bromochloromethane	ND	5.0	"		"	"	"	"	
Bromodichloromethane	ND	5.0		"	"	"	"		

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-25-19' (CYI0462-10) Soil	Sampled: 09/10/15 11:50	Received: 09/11	/15 11:00)					
Bromoform	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
Bromomethane	ND	10		"	"	"	"	"	
Carbon tetrachloride	ND	5.0		"	"	"	"	"	
Chlorobenzene	ND	5.0		"	"	"	"	"	
Chloroethane	ND	5.0		"	"	"	"	"	
Chloroform	ND	5.0		"	"	"	"		
Chloromethane	ND	10		"	"	"	"		
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10		"	"	"	"		
Ethylbenzene	ND	5.0		"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0		"	"	"	"		
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0		"	"		"	"	
p-Chlorotoluene	ND	5.0		"	"		"	"	
p-Isopropyltoluene	ND	5.0		"	"		"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"		
Styrene	ND	5.0	"	"	"	"	"		
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"		
Toluene	ND	5.0	"		"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"		"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"		"	"	"	"	
Trichloroethene	ND	5.0		"	"	"	"		

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ſ	Tetra Tech Geo	Project:	Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	[none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-25-19' (CYI0462-10) Soil	Sampled: 09/10/15 11:50	Received: 09/11	/15 11:0	0					
Trichlorofluoromethane	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		123 %	50	-125	"		"	"	
Surrogate: 4-Bromofluorobenzene		123 %	50)-128	"	"	"	"	
Surrogate: Toluene-d8		98 %	62	-125	"	"	"	"	
DC-SB-20-06' (CYI0462-11) Soil	Sampled: 09/09/15 08:32	Received: 09/11	/15 11:0	0					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06276	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"		
(Freon 113) 1,1,2-Trichloroethane	ND	5.0		"		"	"	"	
1,1-Dichloroethane	ND	5.0		"	"		"		
1,1-Dichloroethene	ND	5.0		"	"		"		
1,1-Dichloropropene	ND	5.0		"	"		"		
1,2,3-Trichlorobenzene	ND	5.0	"	"	"		"		
1,2,3-Trichloropropane	ND	5.0	"	"	"		"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"		"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"		
1,2-Dibromo-3-chloropropane	ND	10	"	"	"		"		
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"		
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0		"	"		"		

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-20-06' (CYI0462-11) Soil Sampled: 09/09	9/15 08:32 Re	ceived: 09/11	/15 11:00)					
2,2-Dichloropropane	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
2-Butanone	ND	100		"	"	"	"	"	
2-Hexanone	ND	50		"	"		"	"	
4-Methyl-2-pentanone	ND	50		"	"		"	"	
Acetone	ND	100		"	"	"	"	"	
Benzene	ND	5.0		"	"		"	"	
Bromobenzene	ND	5.0		"	"		"	"	
Bromochloromethane	ND	5.0		"	"		"	"	
Bromodichloromethane	ND	5.0		"	"		"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10		"	"	"	"	"	
Carbon tetrachloride	ND	5.0		"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0		"	"	"	"	"	
Chloroform	ND	5.0		"	"	"	"	"	
Chloromethane	ND	10		"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	
Dibromochloromethane	ND	5.0		"	"	"	"	"	
Dibromomethane	ND	5.0		"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10		"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"		"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0	"		"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"		
Naphthalene	ND	5.0	"		"	"	"	"	
n-Butylbenzene	ND	5.0	"			"	"		
n-Propylbenzene	ND	5.0	"		"	"	"	"	
o-Chlorotoluene	ND	5.0	"		"	"	"	"	
p-Chlorotoluene	ND	5.0		"	"		"	"	

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	Tetra Tech Geo	Project: Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-20-06' (CYI0462-11) Soil	Sampled: 09/09/15 08:32	Received: 09/11	1/15 11:00	0					
p-Isopropyltoluene	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"		"		"	"	
trans-1,2-Dichloroethene	ND	5.0	"		"		"	"	
trans-1,3-Dichloropropene	ND	5.0	"		"		"	"	
Trichloroethene	ND	5.0	"	"	"		"	"	
Trichlorofluoromethane	ND	5.0	"	"	"		"	"	
Vinyl chloride	ND	10	"		"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
		127.0/		125	"		"	"	26.11
Surrogate: 1,2-Dichloroethane-d4		137 %		-125	"	"	"	"	QS-H
Surrogate: 4-Bromofluorobenzene		105 %		-128	,,	"	"	"	
Surrogate: Toluene-d8		94 %	62	2-125	,,	"	"	"	
DC-SB-20-10' (CYI0462-12) Soil	Sampled: 09/09/15 08:36	Received: 09/11	1/15 11:00	0					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06276	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113)									
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"		"	"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-20-10' (CYI0462-12) Soil	Sampled: 09/09/15 08:36	Received: 09/11	/15 11:00)					
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"		"	"	"	"	
2,2-Dichloropropane	ND	5.0	"		"	"	"	"	
2-Butanone	ND	100		"	"		"	"	
2-Hexanone	ND	50		"	"		"	"	
4-Methyl-2-pentanone	ND	50		"	"		"	"	
Acetone	ND	100		"	"		"	"	
Benzene	ND	5.0			"	"	"	"	
Bromobenzene	ND	5.0			"	"	"	"	
Bromochloromethane	ND	5.0		"	"		"	"	
Bromodichloromethane	ND	5.0		"	"		"	"	
Bromoform	ND	5.0		"	"		"	"	
Bromomethane	ND	10		"	"		"	"	
Carbon tetrachloride	ND	5.0		"	"		"	"	
Chlorobenzene	ND	5.0		"	"		"	"	
Chloroethane	ND	5.0		"	"		"	"	
Chloroform	ND	5.0	"		"	"	"	"	
Chloromethane	ND	10	"		"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"		"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"		"	"	"	"	
Dibromochloromethane	ND	5.0	"		"	"	"	"	
Dibromomethane	ND	5.0	"		"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"		"	"	"	"	
Ethylbenzene	ND	5.0		"	"		"	"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-20-10' (CYI0462-12) Soil	Sampled: 09/09/15 08:36	Received: 09/11	1/15 11:00)					
Hexachlorobutadiene	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"		
Methylene chloride	ND	20	"	"	"	"	"		
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"		
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"		
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		135 %	50	-125	"	"	"	"	QS-
Surrogate: 4-Bromofluorobenzene		106 %	50	-128	"	"	"	"	_
Surrogate: Toluene-d8		96 %	62	-125	"	"	"	"	

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	Tetra Tech Geo	Project: Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-20-17' (CYI0462-13) Soil Sampled	: 09/09/15 08:50 R	eceived: 09/11	/15 11:00)					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06276	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		"	"	"	"	"	
(Freon 113)									
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0		"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0		"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0			"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10		"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,3-Dichloropropane	ND	5.0		"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0		"	"	"	"	"	
2,2-Dichloropropane	ND	5.0		"	"	"	"	"	
2-Butanone	ND	100	"		"	"	"	"	
2-Hexanone	ND	50	"		"	"	"	"	
4-Methyl-2-pentanone	ND	50			"	"	"	"	
Acetone	ND	100	"		"		"		
Benzene	ND	5.0	"		"		"		
Bromobenzene	ND	5.0	"		"		"		
Bromochloromethane	ND	5.0			"		"	"	
Bromodichloromethane	ND	5.0			"		"		

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-20-17' (CYI0462-13) Soil	Sampled: 09/09/15 08:50	Received: 09/11	/15 11:00)					
Bromoform	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"		
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"		
Dibromochloromethane	ND	5.0		"	"		"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"		"	"	
Isopropylbenzene	ND	5.0	"	"	"		"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"		"		
Naphthalene	ND	5.0	"	"	"		"	"	
n-Butylbenzene	ND	5.0	"	"	"		"	"	
n-Propylbenzene	ND	5.0	"	"	"		"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"		
p-Chlorotoluene	ND	5.0	"	"	"		"		
p-Isopropyltoluene	ND	5.0	"	"	"	"	"		
sec-Butylbenzene	ND	5.0	"	"	"	"	"		
Styrene	ND	5.0	"	"	"	"	"		
tert-Butylbenzene	ND	5.0	"	"	"	"	"		
Tetrachloroethene	ND	5.0		"	"	"	"		
Toluene	ND	5.0	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	5.0		"	"		"		
trans-1,3-Dichloropropene	ND	5.0		"	"		"		
Trichloroethene	ND	5.0	"	"	"		"		

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Tetra Tech Geo	Project:	Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	[none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-20-17' (CYI0462-13) Soil	Sampled: 09/09/15 08:50	Received: 09/11	/15 11:0	0					
Trichlorofluoromethane	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
Vinyl chloride	ND	10		"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		133 %	50)-125	"		"	"	QS-HI
Surrogate: 4-Bromofluorobenzene		154 %	50)-128	"	"	"	"	QS-HI
Surrogate: Toluene-d8		97 %	62	2-125	"	"	"	"	
DC-SB-21-07' (CYI0462-14) Soil	Sampled: 09/09/15 10:46	Received: 09/11	/15 11:0	0					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06276	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0		"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"		
(Freon 113) 1,1,2-Trichloroethane	ND	5.0	"				"	"	
1,1-Dichloroethane	ND	5.0							
1,1-Dichloroethene	ND	5.0	"	"					
1,1-Dichloropropene	ND	5.0	"	"			"		
1,2,3-Trichlorobenzene	ND	5.0	"	"	"		"		
1,2,3-Trichloropropane	ND	5.0	"	"	"		"		
1,2,4-Trichlorobenzene	ND	5.0	"	"	"		"		
1,2,4-Trimethylbenzene	ND	5.0			"		"		
1,2-Dibromo-3-chloropropane	ND	10			"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0			"		"	"	
1,2-Dichlorobenzene	ND	5.0			"		"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"		
1,2-Dichloropropane	ND	5.0	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"		
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,3-Dichloropropane	ND	5.0	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"		

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-21-07' (CYI0462-14) Soil Sampled	d: 09/09/15 10:46 Re	eceived: 09/11	/15 11:00)					
2,2-Dichloropropane	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
2-Butanone	ND	100		"	"		"	"	
2-Hexanone	ND	50		"	"	"	"	"	
4-Methyl-2-pentanone	ND	50		"	"		"	"	
Acetone	ND	100		"	"		"	"	
Benzene	ND	5.0		"	"		"	"	
Bromobenzene	ND	5.0		"	"		"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0		"	"	"	"	"	
Chlorobenzene	ND	5.0		"	"	"	"	"	
Chloroethane	ND	5.0		"	"	"	"	"	
Chloroform	ND	5.0		"	"	"	"	"	
Chloromethane	ND	10		"	"		"	"	
cis-1,2-Dichloroethene	ND	5.0		"	"		"	"	
cis-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	
Dibromochloromethane	ND	5.0		"	"		"	"	
Dibromomethane	ND	5.0		"	"		"	"	
Dichlorodifluoromethane (Freon 12)	ND	10		"	"	"	"	"	
Ethylbenzene	ND	5.0		"	"	"	"	"	
Hexachlorobutadiene	ND	5.0		"	"	"	"	"	
Isopropylbenzene	ND	5.0	"		"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"		"	"	"	"	
p-Chlorotoluene	ND	5.0		"	"		"	"	

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1,2,3-Trichlorobenzene

1,2,3-Trichloropropane

1,2,4-Trichlorobenzene

1,2,4-Trimethylbenzene

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	Tetra Tech Geo	Project: Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-21-07' (CYI0462-14) Soil Sampled:	09/09/15 10:46 Re	ceived: 09/11	/15 11:00)					
p-Isopropyltoluene	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
sec-Butylbenzene	ND	5.0	"	"	"	"	"		
Styrene	ND	5.0	"	"	"	"	"		
tert-Butylbenzene	ND	5.0	"	"	"	"	"		
Tetrachloroethene	ND	5.0	"	"	"	"	"		
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		131 %	50	-125	"		"	"	QS-H
Surrogate: 4-Bromofluorobenzene		122 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		94 %	62	-125	"	"	"	"	
DC-SB-21-13.5' (CYI0462-15) Soil Sampled	: 09/09/15 10:54 R	eceived: 09/	11/15 11:	00					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06276	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"		
(Freon 113) 1,1,2-Trichloroethane	ND	5.0		"	"	"		"	
1,1-Dichloroethane	ND	5.0		"		"	"		
1,1-Dichloroethene	ND	5.0		"		"	"		
1,1-Dichloropropene	ND	5.0	"	"	"				

ND

ND

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CA DOHS ELAP Accreditation/Registration Number 1233

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-21-13.5' (CYI0462-15) Soil	-								
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	1	CY06276		09/11/15	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"		"	
1,3-Dichloropropane	ND	5.0	"	"	"	"		"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"		"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"		"	
Acetone	ND	100	"	"	"	"		"	
Benzene	ND	5.0	"	"	"	"		"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"		"	
Bromodichloromethane	ND	5.0	"	"	"		"	"	
Bromoform	ND	5.0	"	"	"		"	"	
Bromomethane	ND	10	"	"	"		"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"		"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"		"	
Chloromethane	ND	10			"	"	"		
cis-1,2-Dichloroethene	ND	5.0	"		"		"	"	
cis-1,3-Dichloropropene	ND	5.0			"	"	"		
Dibromochloromethane	ND	5.0	"	"	"	"	"		
Dibromomethane	ND	5.0	"		"	"	"		
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"		"		
Ethylbenzene	ND	5.0						"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-21-13.5' (CYI0462-15) Soil	Sampled: 09/09/15 10:54	Received: 09/	11/15 11:	00					
Hexachlorobutadiene	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
Isopropylbenzene	ND	5.0		"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0		"	"	"	"	"	
Methylene chloride	ND	20		"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0		"	"	"	"	"	
n-Propylbenzene	ND	5.0		"	"	"	"		
o-Chlorotoluene	ND	5.0		"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0		"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	
Trichloroethene	ND	5.0		"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		139 %	50	-125	"	"	"	"	QS-
Surrogate: 4-Bromofluorobenzene		107 %	50	-128	"		"	"	~
Surrogate: Toluene-d8		96 %	62	-125	"	"	"	"	

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	Tetra Tech Geo	Project:	Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	[none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-21-17' (CYI0462-16) Soil Sampled: 09/	/09/15 11:03 R	ceived: 09/11	/15 11:00						
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06276	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113)		- 0					"		
1,1,2-Trichloroethane	ND	5.0	"			"		"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0		"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"		"	"	"		
4-Methyl-2-pentanone	ND	50	"		"	"	"		
Acetone	ND	100	"		"	"	"		
Benzene	ND	5.0	"		"	"	"		
Bromobenzene	ND	5.0	"		"	"	"	"	
Bromochloromethane	ND	5.0	"		"	"	"	"	
Bromodichloromethane	ND	5.0	"		"	"	"		

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-21-17' (CYI0462-16) Soil	Sampled: 09/09/15 11:03	Received: 09/11	/15 11:00)					
Bromoform	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"		"	"	
p-Isopropyltoluene	ND	5.0	"	"	"		"	"	
sec-Butylbenzene	ND	5.0	"	"	"		"	"	
Styrene	ND	5.0		"	"		"	"	
tert-Butylbenzene	ND	5.0	"	"	"		"	"	
Tetrachloroethene	ND	5.0	"	"	"		"	"	
Toluene	ND	5.0	"	"	"		"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"		"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"		"	"	
Trichloroethene	ND	5.0		"	"	"	"	"	

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Tetra Tech Geo	Project:	Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	[none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-21-17' (CYI0462-16) Soil	Sampled: 09/09/15 11:03	Received: 09/11	1/15 11:0	0					
Trichlorofluoromethane	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		136 %	50)-125	"		"	"	QS-HI
Surrogate: 4-Bromofluorobenzene		119 %	50)-128	"	"	"	"	
Surrogate: Toluene-d8		95 %	62	2-125	"		"	"	
DC-SB-23-7.5' (CYI0462-17) Soil	Sampled: 09/10/15 07:41	Received: 09/1	1/15 11:0	0					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06276	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		"	"	"	"		
(Freon 113) 1,1,2-Trichloroethane	ND	5.0		"			"	"	
1,1-Dichloroethane	ND	5.0			"		"		
1,1-Dichloroethene	ND	5.0		"	"	"	"		
1,1-Dichloropropene	ND	5.0		"	"	"	"		
1,2,3-Trichlorobenzene	ND	5.0			"	"	"		
1,2,3-Trichloropropane	ND	5.0			"		"	"	
1,2,4-Trichlorobenzene	ND	5.0			"		"	"	
1,2,4-Trimethylbenzene	ND	5.0		"	"	"	"		
1,2-Dibromo-3-chloropropane	ND	10		"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"		
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"		
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0		"	"	"	"	"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-23-7.5' (CYI0462-17) Soil	Sampled: 09/10/15 07:41	Received: 09/1	1/15 11:0	0					
2,2-Dichloropropane	ND	5.0	μg/kg	1	CY06276	"	09/11/15	EPA 8260B	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0		"	"	"	"		
Bromodichloromethane	ND	5.0	"	"	"	"	"		
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"		
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"		
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"		
Methylene chloride	ND	20	"	"	"	"	"		
Naphthalene	ND	5.0		"	"	"	"		
n-Butylbenzene	ND	5.0	"	"	"	"	"		
n-Propylbenzene	ND	5.0	"	"	"	"	"		
o-Chlorotoluene	ND	5.0	"	"	"	"	"		
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	

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1,2,3-Trichlorobenzene

1,2,3-Trichloropropane

1,2,4-Trichlorobenzene

1,2,4-Trimethylbenzene

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	Tetra Tech Geo	Project: Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-23-7.5' (CYI0462-17) Soil S	ampled: 09/10/15 07:41	Received: 09/1	1/15 11:0	0					
p-Isopropyltoluene	ND	5.0	µg/kg	1	CY06276	"	09/11/15	EPA 8260B	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0		"	"	"	"		
tert-Butylbenzene	ND	5.0		"	"	"	"		
Tetrachloroethene	ND	5.0		"	"	"	"		
Toluene	ND	5.0		"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	
Trichloroethene	20	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		129 %	50	-125	"		"	"	QS-4
Surrogate: 4-Bromofluorobenzene		123 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		96 %	62	-125	"	"	"	"	
DC-SB-23-14.5' (CYI0462-18) Soil	Sampled: 09/10/15 07:55	Received: 09/	11/15 11:	00					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06305	09/14/15	09/14/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		"	"	"	"	"	
(Freon 113) 1,1,2-Trichloroethane	ND	5.0	"	"	"	"		"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"		"		"		

CA DOHS ELAP Accreditation/Registration Number 1233

5.0

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-23-14.5' (CYI0462-18) Soil	Sampled: 09/10/15 07:55	Received: 09/	11/15 11:	00					
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	1	CY06305	"	09/14/15	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"		
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,3-Dichloropropane	ND	5.0	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"		"		"		
Chloromethane	ND	10	"		"	"	"		
cis-1,2-Dichloroethene	ND	5.0	"		"		"		
cis-1,3-Dichloropropene	ND	5.0	"		"	"	"		
Dibromochloromethane	ND	5.0	"	"	"	"	"		
Dibromomethane	ND	5.0	"	"	"	"	"		
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"		
Ethylbenzene	ND	5.0	"	"					

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	Tetra Tech Geo	Project: Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-23-14.5' (CYI0462-18) Soil	Sampled: 09/10/15 07:55	Received: 09/	11/15 11:	00					
Hexachlorobutadiene	ND	5.0	µg/kg	1	CY06305	"	09/14/15	EPA 8260B	
Isopropylbenzene	ND	5.0		"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0		"	"		"	"	
Methylene chloride	ND	20		"	"		"	"	
Naphthalene	ND	5.0		"	"		"	"	
n-Butylbenzene	ND	5.0		"	"	"	"	"	
n-Propylbenzene	ND	5.0		"	"	"	"	"	
o-Chlorotoluene	ND	5.0		"	"	"	"	"	
p-Chlorotoluene	ND	5.0		"	"		"	"	
p-Isopropyltoluene	ND	5.0	"	"	"		"	"	
sec-Butylbenzene	ND	5.0	"	"	"		"	"	
Styrene	ND	5.0	"	"	"		"	"	
tert-Butylbenzene	ND	5.0		"	"		"	"	
Tetrachloroethene	ND	5.0		"	"		"	"	
Toluene	ND	5.0		"	"		"	"	
trans-1,2-Dichloroethene	ND	5.0			"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0		"	"		"	"	
Trichloroethene	ND	5.0		"	"		"	"	
Trichlorofluoromethane	ND	5.0		"	"		"	"	
Vinyl chloride	ND	10		"	"		"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		124 %	50	-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		93 %		-125	"		"	"	

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	Tetra Tech Geo	Project: Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-24-9.5' (CYI0462-19) Soil Sa	mpled: 09/10/15 09:25	Received: 09/11/15 11:00							
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06305	09/14/15	09/14/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113)								"	
1,1,2-Trichloroethane	ND	5.0				"			
1,1-Dichloroethane	ND	5.0		"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"		"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100		"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	650	100		"	"	"	"	"	
Benzene	ND	5.0		"	"		"	"	
Bromobenzene	ND	5.0	"	"	"		"		
Bromochloromethane	ND	5.0		"	"		"		
Bromodichloromethane	ND	5.0	"	"		"	"	"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-24-9.5' (CYI0462-19) Soil									
Bromoform	ND	5.0	µg/kg	1	CY06305	"	09/14/15	EPA 8260B	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0		"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0		"	"	"	"	"	
Hexachlorobutadiene	ND	5.0		"	"		"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"		
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0		"	"		"	"	
n-Butylbenzene	ND	5.0		"	"		"	"	
n-Propylbenzene	ND	5.0	"	"	"		"	"	
o-Chlorotoluene	ND	5.0		"	"	"	"	"	
p-Chlorotoluene	ND	5.0		"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"			"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0		"	"	"	"		
trans-1,2-Dichloroethene	ND	5.0		"	"		"		
trans-1,3-Dichloropropene	ND	5.0		"	"		"		
Trichloroethene	ND	5.0		"	"		"		

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Tetra Tech Geo 2969 Prospect Park Drive, Suite 100	Project Number:	[none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-24-9.5' (CYI0462-19) Soil	Sampled: 09/10/15 09:25	Received: 09/1	1/15 11:0	0					
Trichlorofluoromethane	ND	5.0	µg/kg	1	CY06305		09/14/15	EPA 8260B	
Vinyl chloride	ND	10	"		"	"	"		
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		131 %	50)-125	"	"	"	"	QS-4
Surrogate: 4-Bromofluorobenzene		137 %	50)-128	"	"	"	"	QS-4
Surrogate: Toluene-d8		94 %	62	2-125	"		"	"	
DC-SB-24-13.5' (CYI0462-20) Soil	Sampled: 09/10/15 09:31	Received: 09/	11/15 11:	:00					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06305	09/14/15	09/14/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"		
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113) 1,1,2-Trichloroethane	ND	5.0		"	"	"	"	"	
1,1-Dichloroethane	ND	5.0		"	"		"		
1,1-Dichloroethene	ND	5.0		"	"		"		
1,1-Dichloropropene	ND	5.0		"	"		"		
1,2,3-Trichlorobenzene	ND	5.0		"	"	"	"		
1,2,3-Trichloropropane	ND	5.0	"	"	"		"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"		"	"	
1,2,4-Trimethylbenzene	ND	5.0	"		"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"		"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"		"	"	"	"	
1,2-Dichlorobenzene	ND	5.0		"	"		"	"	
1,2-Dichloroethane	ND	5.0	"		"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"		"	"	
1,3-Dichloropropane	ND	5.0	"	"	"		"	"	
1,4-Dichlorobenzene	ND	5.0	"		"		"	"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CY10462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-24-13.5' (CY10462-20) Soil	Sampled: 09/10/15 09:31	31 Received: 09/11/15 11:00							
2,2-Dichloropropane	ND	5.0	µg/kg	1	CY06305	"	09/14/15	EPA 8260B	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	170	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"		"	"	"	"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-24-13.5' (CYI0462-20) Soil	Sampled: 09/10/15 09:31	Received: 09/	11/15 11:	00					
p-Isopropyltoluene	ND	5.0	µg/kg	1	CY06305	"	09/14/15	EPA 8260B	
sec-Butylbenzene	ND	5.0	"	"	"		"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"		
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"		
Vinyl chloride	ND	10	"	"	"	"	"		
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		128 %	50)-125	"		"	"	QS-4
Surrogate: 4-Bromofluorobenzene		122 %	50	-128	"		"	"	
Surrogate: Toluene-d8		92 %	62	-125	"	"	"	"	
DC-SB-24-17' (CYI0462-21) Soil	Sampled: 09/10/15 09:37	Received: 09/11	/15 11:00	0					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06305	09/14/15	09/14/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	

ND 5.0 1,1-Dichloroethene " " ND 5.0 " " 1,1-Dichloropropene ., .. ND 5.0 " " 1,2,3-Trichlorobenzene .. " " .. 1,2,3-Trichloropropane ND 5.0 1,2,4-Trichlorobenzene ND 5.0 .. " " 5.0 .. 1,2,4-Trimethylbenzene ND

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-24-17' (CYI0462-21) Soil	Sampled: 09/10/15 09:37	Received: 09/11	/15 11:00)					
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	1	CY06305	"	09/14/15	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"		"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"		
Acetone	200	100	"	"	"	"	"		
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"		
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"		
Chloromethane	ND	10	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"		
Dibromochloromethane	ND	5.0		"	"	"	"	"	
Dibromomethane	ND	5.0		"	"	"	"	"	
Dichlorodifluoromethane (Freon 12) ND	10		"	"	"	"	"	
Ethylbenzene	ND	5.0		"	"	"	"	"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-24-17' (CYI0462-21) Soil	Sampled: 09/10/15 09:37	Received: 09/11	1/15 11:00)					
Hexachlorobutadiene	ND	5.0	µg/kg	1	CY06305	"	09/14/15	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"		
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"		
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		126 %	50	-125	"	"	"	"	Q.
Surrogate: 4-Bromofluorobenzene		141 %	50	-128	"	"	"	"	Q
Surrogate: Toluene-d8		96 %	62	-125	"	"	"	"	

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	Tetra Tech Geo	Project: Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-25-9' (CYI0462-22) Soil Sampled: 09/1	0/15 11:38 Re	ceived: 09/11/	15 11:00						
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06305	09/14/15	09/14/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		"	"	"	"	"	
(Freon 113)									
1,1,2-Trichloroethane	ND	5.0		"	"	"	"	"	
1,1-Dichloroethane	ND	5.0		"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0		"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0		"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10		"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	
1,3-Dichloropropane	ND	5.0		"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0		"	"	"	"	"	
2,2-Dichloropropane	ND	5.0		"	"	"	"	"	
2-Butanone	ND	100		"	"	"	"	"	
2-Hexanone	ND	50		"	"	"	"	"	
4-Methyl-2-pentanone	ND	50		"	"	"	"	"	
Acetone	220	100	"		"	"	"		
Benzene	ND	5.0			"	"	"		
Bromobenzene	ND	5.0			"	"	"	"	
Bromochloromethane	ND	5.0			"	"	"	"	
Bromodichloromethane	ND	5.0			"	"	"	"	

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Tetra Tech Geo	Project:	Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [ne	ione]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Ti	im Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Resu		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
DC-SB-25-9' (CYI0462-22) Soil	Sampled: 09/10/15 11:38	Received: 09/11/	Received: 09/11/15 11:00								
Bromoform	ND	5.0	µg/kg	1	CY06305	"	09/14/15	EPA 8260B			
Bromomethane	ND	10	"	"	"	"	"	"			
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"			
Chlorobenzene	ND	5.0	"	"	"	"	"	"			
Chloroethane	ND	5.0	"	"	"	"	"	"			
Chloroform	ND	5.0	"	"	"	"	"				
Chloromethane	ND	10	"	"	"	"	"				
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"				
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"				
Dibromochloromethane	ND	5.0	"	"	"	"	"				
Dibromomethane	ND	5.0	"	"	"	"	"	"			
Dichlorodifluoromethane (Freon 12	2) ND	10	"	"	"	"	"	"			
Ethylbenzene	ND	5.0	"	"	"	"	"				
Hexachlorobutadiene	ND	5.0	"	"	"	"	"				
Isopropylbenzene	ND	5.0	"	"	"	"	"				
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"				
Methylene chloride	ND	20	"	"	"	"	"	"			
Naphthalene	ND	5.0	"	"	"	"	"				
n-Butylbenzene	ND	5.0	"	"	"	"	"				
n-Propylbenzene	ND	5.0	"	"	"	"	"				
o-Chlorotoluene	ND	5.0	"	"	"	"	"				
p-Chlorotoluene	ND	5.0	"	"	"	"	"				
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"			
sec-Butylbenzene	ND	5.0	"	"	"	"	"				
Styrene	ND	5.0	"	"	"	"	"				
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"			
Tetrachloroethene	ND	5.0	"	"	"	"	"				
Toluene	ND	5.0	"	"	"	"	"	"			
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"			
trans-1,3-Dichloropropene	ND	5.0	"	"	"		"	"			
Trichloroethene	ND	5.0	"	"	"		"	"			

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Tetra Tech Geo	Project:	Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	[none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-25-9' (CYI0462-22) Soil Sampled: 0	9/10/15 11:38 Re	ceived: 09/11/	15 11:00						
Trichlorofluoromethane	ND	5.0	µg/kg	1	CY06305	"	09/14/15	EPA 8260B	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		130 %	50	-125	"	"	"	"	QS-4
Surrogate: 4-Bromofluorobenzene		122 %	50	-128	"	"	"	"	
Surrogate: Toluene-d8		91 %	62	-125	"	"	"	"	
DC-SB-25-11.5' (CYI0462-23) Soil Sampled	: 09/10/15 11:42	Received: 09/	11/15 11:	00					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06305	09/14/15	09/14/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113) 1,1,2-Trichloroethane	ND	5.0	"	"		"	"	"	
1,1-Dichloroethane	ND	5.0							
1,1-Dichloroethene	ND	5.0							
1,1-Dichloropropene	ND	5.0		"			"		
1,2,3-Trichlorobenzene	ND	5.0	"	"	"				
1,2,3-Trichloropropane	ND	5.0	"	"	"		"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"		"	"	
1,2,4-Trimethylbenzene	ND	5.0		"	"		"		
1,2-Dibromo-3-chloropropane	ND	10		"	"		"		
1,2-Dibromoethane (EDB)	ND	5.0		"	"		"		
1,2-Dichlorobenzene	ND	5.0	"	"	"		"		
1,2-Dichloroethane	ND	5.0	"		"		"		
1,2-Dichloropropane	ND	5.0	"	"	"		"	"	
1,3,5-Trimethylbenzene	ND	5.0	"		"		"		
1,3-Dichlorobenzene	ND	5.0	"	"	"		"	"	
1,3-Dichloropropane	ND	5.0	"	"	"		"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"		"		

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ſ	Tetra Tech Geo	Project: Terramar 5100) Broadway
	2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-25-11.5' (CYI0462-23) Soil									
2,2-Dichloropropane	ND	5.0	µg/kg	1	CY06305	"	09/14/15	EPA 8260B	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	130	100	"	"	"	"	"	"	
Benzene	ND	5.0	"		"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"		"	"	"	"	
Bromomethane	ND	10	"		"	"	"		
Carbon tetrachloride	ND	5.0	"	"	"	"	"		
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"		"	"	"	"	
Chloromethane	ND	10	"		"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"		
Ethylbenzene	ND	5.0	"	"	"	"	"		
Hexachlorobutadiene	ND	5.0	"		"	"	"		
Isopropylbenzene	ND	5.0	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0		"			"		
Methylene chloride	ND	20		"			"		
Naphthalene	ND	5.0	"	"	"		"		
n-Butylbenzene	ND	5.0	"	"	"		"		
n-Propylbenzene	ND	5.0	"	"	"		"		
o-Chlorotoluene	ND	5.0	"	"	"		"		
p-Chlorotoluene	ND	5.0	"	"			"		
r childronomene	110	5.0							

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1,1-Dichloroethene

1,1-Dichloropropene

1,2,3-Trichlorobenzene

1,2,3-Trichloropropane

1,2,4-Trichlorobenzene

1,2,4-Trimethylbenzene

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-25-11.5' (CYI0462-23) Soil	Sampled: 09/10/15 11:42	Received: 09/	11/15 11:	00					
p-Isopropyltoluene	ND	5.0	µg/kg	1	CY06305	"	09/14/15	EPA 8260B	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"		"	"	"	"	
Trichlorofluoromethane	ND	5.0	"		"	"	"	"	
Vinyl chloride	ND	10	"		"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		130 %	50)-125	"	"	"	"	QS-4
Surrogate: 4-Bromofluorobenzene		112 %	50	-128	"		"	"	
Surrogate: Toluene-d8		92 %	62	-125	"	"	"	"	
DC-SB-25-16.5' (CYI0462-24) Soil	Sampled: 09/10/15 11:44	Received: 09/	11/15 11:	00					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06305	09/14/15	09/14/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	

CA DOHS ELAP Accreditation/Registration Number 1233

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-25-16.5' (CYI0462-24) Soil	-								
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	1	CY06305	"	09/14/15	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"		"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	220	100	"	"	"		"	"	
Benzene	ND	5.0	"	"	"	"		"	
Bromobenzene	ND	5.0	"	"	"		"	"	
Bromochloromethane	ND	5.0	"	"	"		"	"	
Bromodichloromethane	ND	5.0	"	"	"		"	"	
Bromoform	ND	5.0	"	"	"			"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"		"	"	"	
Chloroethane	ND	5.0	"	"		"	"	"	
Chloroform	ND	5.0	"	"		"	"	"	
Chloromethane	ND	10				"	"		
cis-1,2-Dichloroethene	ND	5.0				"	"		
cis-1,3-Dichloropropene	ND	5.0				"	"		
Dibromochloromethane	ND	5.0	"		"	"	"		
Dibromomethane	ND	5.0	"		"		"		
Dichlorodifluoromethane (Freon 12)	ND	10	"			"	"		
Ethylbenzene	ND	5.0	"	"	"			"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-25-16.5' (CYI0462-24) Soil	Sampled: 09/10/15 11:44	Received: 09/	11/15 11:	00					
Hexachlorobutadiene	ND	5.0	µg/kg	1	CY06305	"	09/14/15	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"		
Methylene chloride	ND	20	"	"	"	"	"		
Naphthalene	ND	5.0	"	"	"	"	"		
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"		
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"		
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"		
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"		
Trichlorofluoromethane	ND	5.0	"	"	"	"	"		
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		133 %	50	-125	"	"	"	"	Q
Surrogate: 4-Bromofluorobenzene		131 %	50	-128	"	"	"	"	Q
Surrogate: Toluene-d8		91 %	62	-125	"	"	"	"	

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	Tetra Tech Geo	Project: Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-26-9.5' (CYI0462-25) Soil Sampled: (09/10/15 14:05	Received: 09/1	1/15 11:0	0					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06305	09/14/15	09/14/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		"	"	"	"	"	
(Freon 113)	ND	5.0			"	"		"	
1,1,2-Trichloroethane	ND	5.0							
1,1-Dichloroethane	ND	5.0				"			
1,1-Dichloroethene	ND	5.0	"			"	"	"	
1,1-Dichloropropene	ND	5.0	"		"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10		"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"		"	"	"	"	
2-Butanone	ND	100	"		"	"	"	"	
2-Hexanone	ND	50	"		"	"	"	"	
4-Methyl-2-pentanone	ND	50	"		"	"	"	"	
Acetone	140	100	"		"	"	"	"	
Benzene	ND	5.0			"	"	"	"	
Bromobenzene	ND	5.0	"		"	"	"		
Bromochloromethane	ND	5.0	"		"	"	"		
Bromodichloromethane	ND	5.0	"		"	"	"	"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-26-9.5' (CYI0462-25) Soil	-			0					
Bromoform	ND	5.0	$\mu g/kg$	1	CY06305	"	09/14/15	EPA 8260B	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"		"	"	
o-Chlorotoluene	ND	5.0	"	"	"		"	"	
p-Chlorotoluene	ND	5.0	"		"	"	"	"	
p-Isopropyltoluene	ND	5.0	"		"	"	"	"	
sec-Butylbenzene	ND	5.0		"	"	"	"	"	
Styrene	ND	5.0		"	"	"	"	"	
tert-Butylbenzene	ND	5.0		"	"	"	"	"	
Tetrachloroethene	ND	5.0		"	"	"	"	"	
Toluene	ND	5.0		"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	
Trichloroethene	ND	5.0			"	"	"	"	

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ſ	Tetra Tech Geo	Project:	Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	[none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-26-9.5' (CYI0462-25) Soil	Sampled: 09/10/15 14:05	Received: 09/1	1/15 11:0	0					
Trichlorofluoromethane	ND	5.0	µg/kg	1	CY06305	"	09/14/15	EPA 8260B	
Vinyl chloride	ND	10			"	"	"		
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		133 %	50)-125	"	"	"	"	QS-4
Surrogate: 4-Bromofluorobenzene		102 %	50)-128	"	"	"	"	
Surrogate: Toluene-d8		92 %	62	2-125	"	"	"	"	
DC-SB-26-14.5' (CYI0462-26) Soil	Sampled: 09/10/15 14:14	Received: 09/	11/15 11:	:00					
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY06305	09/14/15	09/14/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		"	"	"	"		
(Freon 113) 1,1,2-Trichloroethane	ND	5.0			"				
1,1-Dichloroethane	ND	5.0			"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"		"		
1,1-Dichloropropene	ND	5.0			"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0			"	"	"	"	
1,2,3-Trichloropropane	ND	5.0			"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0			"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0			"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10		"	"	"	"		
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0			"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"		
1,2-Dichloropropane	ND	5.0	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"		
1,3-Dichlorobenzene	ND	5.0	"	"	"		"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0	"		"		"	"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-26-14.5' (CY10462-26) Soil	Sampled: 09/10/15 14:14	Received: 09/	11/15 11:	00					
2,2-Dichloropropane	ND	5.0	µg/kg	1	CY06305		09/14/15	EPA 8260B	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	110	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-26-14.5' (CYI0462-26) Soil	Sampled: 09/10/15 14:14	Received: 09/	11/15 11:	00					
p-Isopropyltoluene	ND	5.0	µg/kg	1	CY06305		09/14/15	EPA 8260B	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"		"	"	
Vinyl chloride	ND	10	"	"	"		"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		140 %	50	-125	"		"	"	OS-4
Surrogate: 4-Bromofluorobenzene		105 %		-125	"		"	"	25-4
Surrogate: Toluene-d8		94 %		-125	"		"	"	
DC OD 15 CW/CVIA4CA AT W	Sampled: 00/08/15 00:10	Pacaivad: 0	0/11/15 1	1 00					
DC-SB-15-GW (CYI0462-27) Water	Sampicu. 09/00/15 09.10	Ketelveu. 0	9/11/15 1	1:00					QRL-4
DC-SB-I5-GW (CY10462-27) Water 1,1,1,2-Tetrachloroethane	ND	5.0		1:00	CY06279	09/11/15	09/11/15	EPA 8260B	QRL-4
· · ·	_		9/11/13 1 μg/L "		CY06279 "	09/11/15	09/11/15	EPA 8260B "	QRL-4
1,1,1,2-Tetrachloroethane	ND	5.0	μg/L	10					QRL-4
1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane	ND ND	5.0 5.0	μg/L "	10 "	"		"	"	QRL-4
1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND ND ND	5.0 5.0 5.0	μg/L "	10 "	"	"	"	"	QRL-4
1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) 1,1,2-Trichloroethane	ND ND ND ND	5.0 5.0 5.0 5.0	μg/L " "	10 " "	"	"			QRL-4
1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND ND ND ND	5.0 5.0 5.0 5.0 5.0	μg/L " "	10 " " "	"	"			QRL-4
1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene	ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0 5.0	μg/L " " "	10 " " "		" " "			QRL-4
1,1,1,2-Tetrachloroethane1,1,1-Trichloroethane1,1,2,2-Tetrachloroethane1,1,2-Trichloro-1,2,2-trifluoroethane(Freon 113)1,1,2-Trichloroethane1,1-Dichloroethane1,1-Dichloroethane1,1-Dichloroethane1,1-Dichloroethane	ND ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0 5.0 5.0	μg/L " " " "	10 " " "		" " "			QRL-4
1,1,1,2-Tetrachloroethane1,1,1-Trichloroethane1,1,2,2-Tetrachloroethane1,1,2-Trichloro-1,2,2-trifluoroethane(Freon 113)1,1,2-Trichloroethane1,1-Dichloroethane1,1-Dichloroethane1,1-Dichloroethane1,1-Dichloropropene1,2,3-Trichlorobenzene	ND ND ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	μg/L " " " " "	10 " " " "		" " " "		" " " "	QRL-4
1,1,1,2-Tetrachloroethane1,1,1-Trichloroethane1,1,2,2-Tetrachloroethane1,1,2-Trichloro-1,2,2-trifluoroethane(Freon 113)1,1,2-Trichloroethane1,1-Dichloroethane1,1-Dichloroethane1,1-Dichloroethane1,1-Dichloroethane	ND ND ND ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	μg/L " " " " "	10 " " " " "		" " " " "		" " " " "	QRL-4

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	Tetra Tech Geo	Project: Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-15-GW (CY10462-27) Water	Sampled: 09/08/15 09:10	Received: 0	9/11/15 1	1:00					QRL-4
1,2-Dibromo-3-chloropropane	ND	10	μg/L	10	CY06279	"	09/11/15	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	100	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	100	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0		"	"	"	"		
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"		
Bromomethane	ND	10		"	"	"	"		
Carbon tetrachloride	ND	5.0		"	"	"	"		
Chlorobenzene	ND	5.0		"	"	"	"		
Chloroethane	ND	5.0		"	"	"	"		
Chloroform	ND	5.0		"	"	"	"	"	
Chloromethane	ND	10	"		"		"		
cis-1,2-Dichloroethene	ND	5.0	"		"		"		
cis-1,3-Dichloropropene	ND	5.0	"		"		"		
Dibromochloromethane	ND	5.0	"			"	"		
Dibromomethane	ND	5.0	"				"		
Dichlorodifluoromethane (Freon 12)	17	10	"		"		"		
Ethylbenzene	ND	5.0	"				"		
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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-15-GW (CYI0462-27) Water	Sampled: 09/08/15 09:10	Received: 0	9/11/15 1	1:00					QRL-4
Hexachlorobutadiene	ND	5.0	μg/L	10	CY06279	"	09/11/15	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		142 %	66	i-135	"	"	"	"	QS-4
Surrogate: 4-Bromofluorobenzene		117 %	73	-125	"	"	"	"	
Surrogate: Toluene-d8		100 %	72	2-125	"	"	"	"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-16-GW (CYI0462-28) Water	Sampled: 09/08/15 11:30	Received: 0	9/11/15 1	1:00					QRL-4
1,1,1,2-Tetrachloroethane	ND	5.0	μg/L	10	CY06279	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113)									
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	100	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	100	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"		
Benzene	ND	5.0	"	"	"	"	"		
Bromobenzene	ND	5.0	"		"	"	"		
Bromochloromethane	ND	5.0	"		"	"	"	"	
Bromodichloromethane	ND	5.0	"		"	"	"	"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
OC-SB-16-GW (CYI0462-28) Water San	npled: 09/08/15 11:30	Received: 0	9/11/15 1	1:00					QRL-4
Bromoform	ND	5.0	μg/L	10	CY06279	"	09/11/15	EPA 8260B	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
is-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
is-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	47	10		"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Iexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
sopropylbenzene	ND	5.0	"	"	"	"	"	"	
Aethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Aethylene chloride	ND	5.0	"	"	"	"	"	"	
Vaphthalene	ND	5.0	"	"	"	"	"	"	
-Butylbenzene	ND	5.0	"	"	"	"	"	"	
-Propylbenzene	ND	5.0	"	"	"	"	"	"	
-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
ec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
ert-Butylbenzene	ND	5.0	"	"		"	"	"	
etrachloroethene	ND	5.0	"	"			"		
Coluene	ND	5.0	"	"	"	"	"	"	
rans-1,2-Dichloroethene	ND	5.0	"	"	"		"	"	
rans-1,3-Dichloropropene	ND	5.0	"	"	"		"	"	
richloroethene	ND	5.0	"	"	"		"	"	

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Tetra Tech Geo	Project:	Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	[none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-16-GW (CYI0462-28) Water	Sampled: 09/08/15 11:30	Received: 0	9/11/15 1	11:00					QRL-4
Trichlorofluoromethane	ND	5.0	μg/L	10	CY06279	"	09/11/15	EPA 8260B	
Vinyl chloride	ND	10		"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		145 %	60	5-135	"		"	"	QS-4
Surrogate: 4-Bromofluorobenzene		111 %	73	3-125	"	"	"	"	
Surrogate: Toluene-d8		102 %	72	2-125	"	"	"	"	
DC-SB-17-GW (CYI0462-29) Water	Sampled: 09/08/15 13:55	Received: 0	9/11/15 1	11:00					QRL-4
1,1,1,2-Tetrachloroethane	ND	5.0	μg/L	10	CY06320	09/15/15	09/15/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0		"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113) 1,1,2-Trichloroethane	ND	5.0							
1,1-Dichloroethane	ND	5.0		"	"		"		
1,1-Dichloroethene	ND	5.0		"	"				
1,1-Dichloropropene	ND	5.0	"	"	"		"		
1,2,3-Trichlorobenzene	ND	5.0	"		"				
1,2,3-Trichloropropane	ND	5.0	"		"				
1,2,4-Trichlorobenzene	ND	5.0	"		"				
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"		
1,2-Dibromo-3-chloropropane	ND	10	"	"	"		"		
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"		
1,2-Dichlorobenzene	ND	5.0		"	"		"		
1,2-Dichloroethane	ND	5.0	"	"	"	"	"		
1,2-Dichloropropane	ND	5.0	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"		
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,3-Dichloropropane	ND	5.0	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"		

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-17-GW (CYI0462-29) Water	Sampled: 09/08/15 13:55	Received: 0	Received: 09/11/15 11:00						
2,2-Dichloropropane	ND	5.0	μg/L	10	CY06320	"	09/15/15	EPA 8260B	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	100	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	100	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"		"	"	
Carbon tetrachloride	ND	5.0	"	"	"		"	"	
Chlorobenzene	ND	5.0	"	"	"		"	"	
Chloroethane	ND	5.0	"	"	"		"	"	
Chloroform	ND	5.0	"	"	"		"	"	
Chloromethane	ND	10	"	"	"		"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"		"	"	
Dibromochloromethane	ND	5.0	"	"	"		"	"	
Dibromomethane	ND	5.0	"	"	"		"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"		"	"	
Hexachlorobutadiene	ND	5.0	"	"	"		"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"		"	"	
n-Butylbenzene	ND	5.0	"	"	"		"	"	
n-Propylbenzene	ND	5.0	"	"	"		"	"	
o-Chlorotoluene	ND	5.0	"	"	"		"	"	
p-Chlorotoluene	ND	5.0	"	"		"	"	"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-17-GW (CYI0462-29) Water	Sampled: 09/08/15 13:55	Received: 0	9/11/15 1	1:00					QRL-4
p-Isopropyltoluene	ND	5.0	μg/L	10	CY06320	"	09/15/15	EPA 8260B	
sec-Butylbenzene	ND	5.0	"	"	"	"	"		
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"		"	"	
Vinyl chloride	ND	10	"	"	"		"	"	
Xylenes (total)	ND	10	"		"	"	"	"	
Summer day 1.2 Disklams dame 14		102.0/	()	125	,		"	"	
Surrogate: 1,2-Dichloroethane-d4		102 % 86 %		-135	"		"	"	
Surrogate: 4-Bromofluorobenzene				-125	"		"	"	
Surrogate: Toluene-d8		95 %	12	-125		"			
DC-SB-18-GW (CYI0462-30) Water	Sampled: 09/08/15 15:23	Received: 0	9/11/15 1	1:00					QRL-4
1,1,1,2-Tetrachloroethane	ND	5.0	μg/L	10	CY06279	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113)									
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"		
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	

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	Tetra Tech Geo	Project: Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-18-GW (CYI0462-30) Water	Sampled: 09/08/15 15:23	Received: 0	Received: 09/11/15 11:00						
1,2-Dibromo-3-chloropropane	ND	10	μg/L	10	CY06279	"	09/11/15	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"		"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	100	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	100		"	"	"	"		
Acetone	ND	100	"	"	"	"	"		
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0		"	"	"	"		
Bromodichloromethane	ND	5.0	"	"	"	"	"		
Bromoform	ND	5.0		"	"	"	"		
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0		"	"	"	"		
Chlorobenzene	ND	5.0		"	"	"	"		
Chloroethane	ND	5.0		"	"	"	"		
Chloroform	ND	5.0		"	"	"	"		
Chloromethane	ND	10	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	5.0	"		"		"		
cis-1,3-Dichloropropene	ND	5.0	"		"		"		
Dibromochloromethane	ND	5.0	"	"	"		"		
Dibromomethane	ND	5.0	"		"	"	"		
Dichlorodifluoromethane (Freon 12)	21	10	"	"	"	"	"		
Ethylbenzene	ND	5.0	"		"		"	"	

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Tetra Tech Geo	Project: Ter	erramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none	ne]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim	n Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-18-GW (CYI0462-30) Water	Sampled: 09/08/15 15:23	Received: 09/11/15 11:00							QRL-4
Hexachlorobutadiene	ND	5.0	μg/L	10	CY06279	"	09/11/15	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		155 %	66	5-135	"	"	"	"	QS-4
Surrogate: 4-Bromofluorobenzene		112 %	73	-125	"	"	"	"	
Surrogate: Toluene-d8		106 %	72	-125	"	"	"	"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-20-GW (CYI0462-31) Water	Sampled: 09/09/15 09:13	Received: 0	9/11/15 1	1:00					QRL-4
1,1,1,2-Tetrachloroethane	ND	5.0	$\mu g/L$	10	CY06279	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113)			"		"		"		
1,1,2-Trichloroethane	ND	5.0				"		"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"		"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	100	"		"	"	"	"	
4-Methyl-2-pentanone	ND	100	"		"		"	"	
Acetone	ND	100	"		"		"	"	
Benzene	ND	5.0	"		"		"		
Bromobenzene	ND	5.0	"		"		"		
Bromochloromethane	ND	5.0	"		"		"	"	
Bromodichloromethane	ND	5.0	"		"		"	"	

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Tetra Tech Geo	Project: Ter	erramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none	ne]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim	n Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-20-GW (CYI0462-31) Water	Sampled: 09/09/15 09:13	Received: 0	9/11/15 1	1:00					QRL-4
Bromoform	ND	5.0	μg/L	10	CY06279	"	09/11/15	EPA 8260B	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"		
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	47	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	

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Tetra Tech Geo	Project:	Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	[none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-20-GW (CYI0462-31) Water	Sampled: 09/09/15 09:13	Received: 0	9/11/15 1	11:00					QRL-4
Trichlorofluoromethane	ND	5.0	μg/L	10	CY06279	"	09/11/15	EPA 8260B	
Vinyl chloride	ND	10		"	"	"	"		
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		163 %	60	5-135	"		"	"	QS-4
Surrogate: 4-Bromofluorobenzene		113 %	73	3-125	"	"	"	"	
Surrogate: Toluene-d8		103 %	72	2-125	"	"	"	"	
DC-SB-21-GW (CYI0462-32) Water	Sampled: 09/09/15 11:24	Received: 0	9/11/15 1	11:00					QRL-4
1,1,1,2-Tetrachloroethane	ND	5.0	μg/L	10	CY06320	09/15/15	09/15/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113) 1,1,2-Trichloroethane	ND	5.0	"	"	"		"	"	
1,1-Dichloroethane	ND	5.0	"		"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"		"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"		"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"		"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"		"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"		
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,3-Dichloropropane	ND	5.0	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-21-GW (CYI0462-32) Water	Sampled: 09/09/15 11:24	Received: 0	9/11/15 1	1:00					QRL-4
2,2-Dichloropropane	ND	5.0	μg/L	10	CY06320	"	09/15/15	EPA 8260B	
2-Butanone	ND	100	"	"	"	"	"		
2-Hexanone	ND	100	"	"	"	"	"		
4-Methyl-2-pentanone	ND	100	"	"	"	"	"		
Acetone	ND	100	"	"	"	"	"		
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	39	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"		"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"		

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-21-GW (CYI0462-32) Water	Sampled: 09/09/15 11:24	Received: 0	9/11/15 1	1:00					QRL-4
p-Isopropyltoluene	ND	5.0	μg/L	10	CY06320	"	09/15/15	EPA 8260B	
sec-Butylbenzene	ND	5.0		"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"		"	"	
Toluene	ND	5.0		"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	
Trichloroethene	ND	5.0		"	"	"	"	"	
Trichlorofluoromethane	ND	5.0		"	"	"	"	"	
Vinyl chloride	ND	10		"	"	"	"	"	
Xylenes (total)	ND	10	"		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		102 %		-135	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88 %		-125	"	"	"	"	
Surrogate: Toluene-d8		95 %	72	-125	"	"	"	"	
DC-SB-23-GW (CYI0462-33) Water	Sampled: 09/10/15 08:18	Received: 0	9/11/15 1	1:00					QRL-4
1,1,1,2-Tetrachloroethane	ND	5.0	μg/L	10	CY06279	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		"	"	"	"	"	
(Freon 113)		5.0					"	"	
1,1,2-Trichloroethane	ND	5.0							
1,1-Dichloroethane	ND	5.0							
1,1-Dichloroethene	ND	5.0				"			
1,1-Dichloropropene	ND	5.0				"			
1,2,3-Trichlorobenzene	ND	5.0	"		"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"		"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0		"	"	"	"	"	

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Tet	ra Tech Geo	Project: Terramar	5100 Broadway
296	9 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rar	ncho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-23-GW (CYI0462-33) Water	Sampled: 09/10/15 08:18	Received: 0	9/11/15 1	1:00					QRL-4
1,2-Dibromo-3-chloropropane	ND	10	μg/L	10	CY06279	"	09/11/15	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"		
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,2-Dichloroethane	ND	5.0	"	"	"	"	"		
1,2-Dichloropropane	ND	5.0	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"		
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	100	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	100	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"		"	"	
cis-1,2-Dichloroethene	ND	5.0	"		"		"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"		"	"	
Dibromochloromethane	ND	5.0	"	"	"		"	"	
Dibromomethane	ND	5.0	"	"	"		"	"	
Dichlorodifluoromethane (Freon 12)	24	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-23-GW (CYI0462-33) Water	Sampled: 09/10/15 08:18	Received: 0	9/11/15 1	1:00					QRL-4
Hexachlorobutadiene	ND	5.0	μg/L	10	CY06279	"	09/11/15	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0		"	"	"	"		
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0		"	"	"	"		
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10		"	"	"	"		
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		164 %	66	5-135	"	"	"	"	QS-4
Surrogate: 4-Bromofluorobenzene		115 %	73	-125	"	"	"	"	
Surrogate: Toluene-d8		106 %	72	-125	"	"	"	"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-24-GW (CYI0462-34) Water	Sampled: 09/10/15 10:15	Received: 0	9/11/15 1	1:00					QRL-4
1,1,1,2-Tetrachloroethane	ND	5.0	μg/L	10	CY06320	09/15/15	09/15/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"		
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113)			"				"	"	
1,1,2-Trichloroethane	ND	5.0				"			
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0		"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"		
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0		"	"	"	"		
2-Butanone	ND	100		"	"	"	"		
2-Hexanone	ND	100		"	"	"	"		
4-Methyl-2-pentanone	ND	100		"	"		"		
Acetone	ND	100		"	"	"	"		
Benzene	ND	5.0	"		"		"		
Bromobenzene	ND	5.0		"	"		"		
Bromochloromethane	ND	5.0	"		"		"		
Bromodichloromethane	ND	5.0		"	"		"		

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-24-GW (CYI0462-34) Water	Sampled: 09/10/15 10:15	Received: 0	9/11/15 1	1:00					QRL-4
Bromoform	ND	5.0	$\mu g/L$	10	CY06320	"	09/15/15	EPA 8260B	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"		
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"		

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-24-GW (CYI0462-34) Water	Sampled: 09/10/15 10:15	Received: 0	9/11/15 1	1:00					QRL-4
Trichlorofluoromethane	ND	5.0	μg/L	10	CY06320	"	09/15/15	EPA 8260B	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		102 %	60	5-135	"		"	"	
Surrogate: 4-Bromofluorobenzene		87 %	73	8-125	"	"	"	"	
Surrogate: Toluene-d8		96 %	72	2-125	"	"	"	"	
DC-SB-25-GW (CYI0462-35) Water	Sampled: 09/10/15 12:54	Received: 0	9/11/15 1	1:00					QRL-4
1,1,1,2-Tetrachloroethane	ND	5.0	μg/L	10	CY06320	09/15/15	09/15/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113) 1,1,2-Trichloroethane	ND	5.0						"	
1,1-Dichloroethane	ND	5.0		"	"		"		
1,1-Dichloroethene	ND	5.0		"	"		"		
1,1-Dichloropropene	ND	5.0		"	"		"		
1,2,3-Trichlorobenzene	ND	5.0	"	"	"				
1,2,3-Trichloropropane	ND	5.0		"	"		"		
1,2,4-Trichlorobenzene	ND	5.0	"	"	"		"		
1,2,4-Trimethylbenzene	ND	5.0	"	"	"		"		
1,2-Dibromo-3-chloropropane	ND	10	"	"	"		"		
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"		
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"		
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"		
1,3-Dichloropropane	ND	5.0	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-25-GW (CYI0462-35) Water	Sampled: 09/10/15 12:54	Received: 0	9/11/15 1	1:00					QRL-4
2,2-Dichloropropane	ND	5.0	μg/L	10	CY06320	"	09/15/15	EPA 8260B	
2-Butanone	ND	100	"	"	"	"	"		
2-Hexanone	ND	100	"	"	"	"	"		
4-Methyl-2-pentanone	ND	100	"	"	"	"	"		
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"		"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"		"	"	
n-Butylbenzene	ND	5.0	"	"	"		"	"	
n-Propylbenzene	ND	5.0	"	"	"		"	"	
o-Chlorotoluene	ND	5.0	"	"	"		"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"		

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-25-GW (CYI0462-35) Water	Sampled: 09/10/15 12:54	Received: 0	9/11/15 1	1:00					QRL-4
p-Isopropyltoluene	ND	5.0	μg/L	10	CY06320	"	09/15/15	EPA 8260B	
sec-Butylbenzene	ND	5.0		"	"	"	"	"	
Styrene	ND	5.0		"	"	"	"		
tert-Butylbenzene	ND	5.0		"	"	"	"		
Tetrachloroethene	ND	5.0		"	"	"	"		
Toluene	ND	5.0		"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0		"	"		"	"	
Trichloroethene	ND	5.0		"	"		"	"	
Trichlorofluoromethane	ND	5.0		"	"	"	"	"	
Vinyl chloride	ND	10		"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		101 %	64	6-135	"		"	"	
Surrogate: 4-Bromofluorobenzene		90%		-135 8-125	"		"	"	
Surrogate: Toluene-d8		95 %		2-125	"		"	"	
DC-SB-26-GW (CYI0462-36) Water	Sampled: 09/10/15 14:35	Received: 0	9/11/15 1	1:00					QRL-4
1,1,1,2-Tetrachloroethane	ND	5.0	μg/L	10	CY06279	09/11/15	09/11/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0		"	"		"		
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"		
(Freon 113) 1,1,2-Trichloroethane	ND	5.0		"			"	"	
1,1-Dichloroethane	ND	5.0 5.0			"				
1,1-Dichloroethene	ND	5.0 5.0	"						
	ND		"						
1,1-Dichloropropene		5.0							
1,2,3-Trichlorobenzene	ND	5.0					"	"	
1,2,3-Trichloropropane	ND	5.0					"	"	
1,2,4-Trichlorobenzene	ND	5.0				"	"	"	
1,2,4-Trimethylbenzene	ND	5.0							

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-26-GW (CYI0462-36) Water	Sampled: 09/10/15 14:35	Received: 0	9/11/15 1	1:00					QRL-4
1,2-Dibromo-3-chloropropane	ND	10	μg/L	10	CY06279	"	09/11/15	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"		"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	100	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	100		"	"	"	"		
Acetone	ND	100	"	"	"	"	"		
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0		"	"	"	"		
Bromodichloromethane	ND	5.0	"	"	"	"	"		
Bromoform	ND	5.0		"	"	"	"		
Bromomethane	ND	10		"	"	"	"		
Carbon tetrachloride	ND	5.0		"	"	"	"		
Chlorobenzene	ND	5.0		"	"	"	"		
Chloroethane	ND	5.0		"	"	"	"		
Chloroform	ND	5.0		"	"	"	"		
Chloromethane	ND	10	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	5.0	"		"		"		
cis-1,3-Dichloropropene	ND	5.0	"	"	"		"	"	
Dibromochloromethane	ND	5.0	"		"		"		
Dibromomethane	ND	5.0	"	"	"	"	"		
Dichlorodifluoromethane (Freon 12)	75	10	"	"	"	"	"		
Ethylbenzene	ND	5.0	"		"		"		

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Tetra Tech Geo	Project: Ter	erramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none	ne]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim	n Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-26-GW (CYI0462-36) Water	Sampled: 09/10/15 14:35	Received: 0	9/11/15 1	1:00					QRL-
Hexachlorobutadiene	ND	5.0	μg/L	10	CY06279	"	09/11/15	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"		
Methylene chloride	ND	5.0	"	"	"	"	"		
Naphthalene	ND	5.0	"	"	"	"	"		
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"		
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"		"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"		"		
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"		"	"	
Vinyl chloride	ND	10	"	"	"		"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		116 %	66	5-135	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	73	-125	"		"	"	
Surrogate: Toluene-d8		144 %	72	-125	"	"	"	"	OS-

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CY06276 - EPA 5030 Soil MS	result	Emit	0.110	2000	ressure	,	Linto		Linn	110103
Blank (CY06276-BLK1)				Prenared &	k Analyzed:	09/11/15				
Acetone	ND	100	μg/kg	i repuied o	e / maryzea.	0)/11/15				
Benzene	ND	5.0	"							
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	10								
2-Butanone	ND	100								
n-Butylbenzene	ND	5.0								
sec-Butylbenzene	ND	5.0								
tert-Butylbenzene	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	10								
o-Chlorotoluene	ND	5.0								
p-Chlorotoluene	ND	5.0								
Dibromochloromethane	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	10								
1,2-Dibromoethane (EDB)	ND	5.0								
Dibromomethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
Dichlorodifluoromethane (Freon 12)	ND	10								
1,1-Dichloroethane	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
trans-1,2-Dichloroethene	ND	5.0	"							

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CY06276 - EPA 5030 Soil MS										
Blank (CY06276-BLK1)				Prepared &	k Analyzed:	09/11/15				
1,2-Dichloropropane	ND	5.0	µg/kg							
1,3-Dichloropropane	ND	5.0	"							
2,2-Dichloropropane	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	"							
rans-1,3-Dichloropropene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
2-Hexanone	ND	50	"							
sopropylbenzene	ND	5.0	"							
p-Isopropyltoluene	ND	5.0	"							
Methylene chloride	ND	20	"							
4-Methyl-2-pentanone	ND	50	"							
Methyl tert-butyl ether	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
Toluene	ND	5.0	"							
,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Frichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
,3,5-Trimethylbenzene	ND	5.0	"							

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1,1-Dichloroethene

Toluene

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CY06276 - EPA 5030 Soil MS										
Blank (CY06276-BLK1)				Prepared &	Analyzed:	09/11/15				
1,2,4-Trimethylbenzene	ND	5.0	µg/kg							
Vinyl chloride	ND	10								
Xylenes (total)	ND	10								
Surrogate: 1,2-Dichloroethane-d4	34.4		"	30.0		115	50-125			
Surrogate: Toluene-d8	27.9		"	30.0		93	62-125			
Surrogate: 4-Bromofluorobenzene	33.4		"	30.0		111	50-128			
LCS (CY06276-BS1)				Prepared &	Analyzed:	09/11/15				
Benzene	17.6	5.0	µg/kg	20.0		88	64-135			
Chlorobenzene	18.0	5.0		20.0		90	67-133			
1,1-Dichloroethene	17.8	5.0		20.0		89	53-137			
Toluene	17.1	5.0		20.0		86	61-138			
Trichloroethene	18.3	5.0	"	20.0		91	64-130			
Surrogate: 1,2-Dichloroethane-d4	32.8		"	30.0		109	50-125			
Surrogate: Toluene-d8	32.0		"	30.0		107	62-125			
Surrogate: 4-Bromofluorobenzene	30.3		"	30.0		101	50-128			
LCS Dup (CY06276-BSD1)				Prepared &	Analyzed:	09/11/15				
Benzene	17.3	5.0	µg/kg	20.0		86	64-135	2	30	
Chlorobenzene	17.9	5.0	"	20.0		89	67-133	0.4	30	
1,1-Dichloroethene	18.6	5.0	"	20.0		93	53-137	5	30	
Toluene	17.1	5.0	"	20.0		85	61-138	0.5	30	
Trichloroethene	17.5	5.0	"	20.0		87	64-130	4	30	
Surrogate: 1,2-Dichloroethane-d4	33.3		"	30.0		111	50-125			
Surrogate: Toluene-d8	31.3		"	30.0		104	62-125			
Surrogate: 4-Bromofluorobenzene	30.5		"	30.0		102	50-128			
Matrix Spike (CY06276-MS1)	Sou	rce: CY10462-	-01	Prepared: ()9/11/15 A	nalyzed: 09	/12/15			
Benzene	14.4	5.0	µg/kg	20.0	ND	72	58-139			
Chlorobenzene	12.6	5.0	"	20.0	ND	63	62-134			

CA DOHS ELAP Accreditation/Registration Number 1233

5.0

5.0

"

"

16.2

13.5

20.0

20.0

ND

ND

81

67

53-152

58-139

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Tetra Tech Geo	Project:	Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	[none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CY06276 - EPA 5030 Soil MS										
Matrix Spike (CY06276-MS1)	Source	e: CYI0462-	-01	Prepared: (09/11/15 A	nalyzed: 09	/12/15			
Trichloroethene	14.5	5.0	µg/kg	20.0	ND	72	55-138			
Surrogate: 1,2-Dichloroethane-d4	36.0		"	30.0		120	50-125			
Surrogate: Toluene-d8	33.6		"	30.0		112	62-125			
Surrogate: 4-Bromofluorobenzene	33.7		"	30.0		112	50-128			
Matrix Spike Dup (CY06276-MSD1)	Source	e: CYI0462-	·01	Prepared: (09/11/15 A	nalyzed: 09	/12/15			
Benzene	15.6	5.0	µg/kg	20.0	ND	78	58-139	8	30	
Chlorobenzene	14.8	5.0		20.0	ND	74	62-134	16	30	
1,1-Dichloroethene	17.7	5.0		20.0	ND	88	53-152	9	30	
Toluene	15.1	5.0		20.0	ND	76	58-139	12	30	
Trichloroethene	17.2	5.0	"	20.0	ND	86	55-138	17	30	
Surrogate: 1,2-Dichloroethane-d4	36.2		"	30.0		121	50-125			
Surrogate: Toluene-d8	33.7		"	30.0		112	62-125			
Surrogate: 4-Bromofluorobenzene	31.7		"	30.0		106	50-128			

Batch CY06279 - EPA 5030 Water MS

Blank (CY06279-BLK1)
Acetone ND 10 µg/L
Benzene ND 0.50 "
Bromobenzene ND 0.50 "
Bromochloromethane ND 0.50 "
Bromodichloromethane ND 0.50 "
Bromoform ND 0.50 "
Bromomethane ND 1.0 "
2-Butanone ND 10 "
n-Butylbenzene ND 0.50 "
sec-Butylbenzene ND 0.50 "
tert-Butylbenzene ND 0.50 "
Carbon tetrachloride ND 0.50 "
Chlorobenzene ND 0.50 "
Chloroethane ND 0.50 "

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Γ	Tetra Tech Geo	Project:	Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	[none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
-	Result	Linit	Cints	Lever	Result	JuitLe	Linits	Ki D	Linit	Notes	
Batch CY06279 - EPA 5030 Water MS											
Blank (CY06279-BLK1)	Prepared & Analyzed: 09/11/15										
Chloroform	ND	0.50	μg/L								
Chloromethane	ND	1.0	"								
o-Chlorotoluene	ND	0.50	"								
p-Chlorotoluene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	1.0	"								
1,2-Dibromoethane (EDB)	ND	0.50	"								
Dibromomethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
,4-Dichlorobenzene	ND	0.50	"								
Dichlorodifluoromethane (Freon 12)	ND	1.0	"								
,1-Dichloroethane	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
I,1-Dichloroethene	ND	0.50	"								
cis-1,2-Dichloroethene	ND	0.50	"								
rans-1,2-Dichloroethene	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
1,1-Dichloropropene	ND	0.50	"								
cis-1,3-Dichloropropene	ND	0.50	"								
rans-1,3-Dichloropropene	ND	0.50	"								
Ethylbenzene	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
2-Hexanone	ND	10	"								
sopropylbenzene	ND	0.50	"								
p-Isopropyltoluene	ND	0.50	"								
Methylene chloride	ND	0.50	"								

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CY06279 - EPA 5030 Water MS										
Blank (CY06279-BLK1)	Prepared & Analyzed: 09/11/15									
4-Methyl-2-pentanone	ND	10	μg/L	1	2					
Methyl tert-butyl ether	ND	0.50								
Naphthalene	ND	0.50								
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50								
Tetrachloroethene	ND	0.50								
Toluene	ND	0.50								
1,2,3-Trichlorobenzene	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.50								
1,1,1-Trichloroethane	ND	0.50								
,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50								
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	11.7		"	10.0		117	66-135			
Surrogate: Toluene-d8	9.94		"	10.0		99	72-125			
Surrogate: 4-Bromofluorobenzene	11.3		"	10.0		113	73-125			
LCS (CY06279-BS1)				Prepared &	Analyzed:	09/11/15				
Benzene	24.2	0.50	μg/L	20.0		121	60-135			
Chlorobenzene	18.8	0.50		20.0		94	60-133			
1,1-Dichloroethene	22.0	0.50		20.0		110	42-150			
	23.8	0.50		20.0		119	60-137			
Toluene										
l'oluene Frichloroethene	24.0	0.50		20.0		120	62-140			

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ſ	Tetra Tech Geo	Project: Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CY06279 - EPA 5030 Water MS										
LCS (CY06279-BS1)				Prepared &	Analyzed:	09/11/15				
Surrogate: Toluene-d8	9.87		$\mu g/L$	10.0		99	72-125			
Surrogate: 4-Bromofluorobenzene	10.5		"	10.0		105	73-125			
LCS Dup (CY06279-BSD1)				Prepared &	Analyzed:	09/11/15				
Benzene	24.8	0.50	μg/L	20.0		124	60-135	2	25	
Chlorobenzene	20.5	0.50	"	20.0		103	60-133	9	25	
1,1-Dichloroethene	23.5	0.50	"	20.0		118	42-150	7	25	
Toluene	24.2	0.50	"	20.0		121	60-137	1	25	
Trichloroethene	24.2	0.50	"	20.0		121	62-140	0.9	25	
Surrogate: 1,2-Dichloroethane-d4	7.97		"	10.0		80	66-135			
Surrogate: Toluene-d8	9.76		"	10.0		98	72-125			
Surrogate: 4-Bromofluorobenzene	9.85		"	10.0		98	73-125			

Batch CY06305 - EPA 5030 Soil MS

Blank (CY06305-BLK1)				Prepared & Analyzed: 09/14/15
Acetone	ND	100	µg/kg	
Benzene	ND	5.0	"	
Bromobenzene	ND	5.0	"	
Bromochloromethane	ND	5.0	"	
Bromodichloromethane	ND	5.0	"	
Bromoform	ND	5.0	"	
Bromomethane	ND	10	"	
2-Butanone	ND	100	"	
n-Butylbenzene	ND	5.0	"	
sec-Butylbenzene	ND	5.0	"	
tert-Butylbenzene	ND	5.0	"	
Carbon tetrachloride	ND	5.0	"	
Chlorobenzene	ND	5.0	"	
Chloroethane	ND	5.0	"	
Chloroform	ND	5.0	"	
Chloromethane	ND	10	"	

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	Tetra Tech Geo	Project: Terramar 5100 Broadway		
	2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462	
	Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Linit	Cinto	Level	resuit	JUILLE	Linits		Linin	110105
Batch CY06305 - EPA 5030 Soil MS										
Blank (CY06305-BLK1)				Prepared &	k Analyzed:	09/14/15				
o-Chlorotoluene	ND	5.0	$\mu g/kg$							
p-Chlorotoluene	ND	5.0	"							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	10	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Dibromomethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane (Freon 12)	ND	10								
,1-Dichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
,1-Dichloroethene	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
rans-1,2-Dichloroethene	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3-Dichloropropane	ND	5.0								
2,2-Dichloropropane	ND	5.0								
1,1-Dichloropropene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Ethylbenzene	ND	5.0								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon	ND	5.0								
Hexachlorobutadiene	ND	5.0								
2-Hexanone	ND	50								
sopropylbenzene	ND	5.0								
p-Isopropyltoluene	ND	5.0								
Methylene chloride	ND	20								
4-Methyl-2-pentanone	ND	50								
Methyl tert-butyl ether	ND	5.0								

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	Tetra Tech Geo	Project: Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CY06305 - EPA 5030 Soil MS										
Blank (CY06305-BLK1)				Prepared &	Analyzed:	09/14/15				
Naphthalene	ND	5.0	µg/kg							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
Toluene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
Trichloroethene	ND	5.0								
Trichlorofluoromethane	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
Vinyl chloride	ND	10								
Xylenes (total)	ND	10								
Surrogate: 1,2-Dichloroethane-d4	34.6		"	30.0		115	50-125			
Surrogate: Toluene-d8	28.0		"	30.0		93	62-125			
Surrogate: 4-Bromofluorobenzene	34.3		"	30.0		114	50-128			
LCS (CY06305-BS1)				Prepared &	Analyzed:	09/14/15				
Benzene	16.3	5.0	µg/kg	20.0		82	64-135			
Chlorobenzene	17.7	5.0		20.0		89	67-133			
1,1-Dichloroethene	16.5	5.0		20.0		82	53-137			
Toluene	17.5	5.0		20.0		88	61-138			
Trichloroethene	16.8	5.0	"	20.0		84	64-130			
Surrogate: 1,2-Dichloroethane-d4	34.8		"	30.0		116	50-125			
Surrogate: Toluene-d8	32.5		"	30.0		108	62-125			
Surrogate: 4-Bromofluorobenzene	37.8		"	30.0		126	50-128			

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ſ	Tetra Tech Geo	Project:	Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	[none]	CLS Work Order #: CYI0462
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CY06305 - EPA 5030 Soil MS										
LCS Dup (CY06305-BSD1)				Prepared &	k Analyzed:	09/14/15				
Benzene	16.6	5.0	µg/kg	20.0		83	64-135	2	30	
Chlorobenzene	17.4	5.0	"	20.0		87	67-133	2	30	
1,1-Dichloroethene	18.0	5.0	"	20.0		90	53-137	9	30	
Toluene	17.3	5.0	"	20.0		87	61-138	0.9	30	
Trichloroethene	17.1	5.0	"	20.0		86	64-130	2	30	
Surrogate: 1,2-Dichloroethane-d4	36.0		"	30.0		120	50-125			
Surrogate: Toluene-d8	32.3		"	30.0		108	62-125			
Surrogate: 4-Bromofluorobenzene	30.1		"	30.0		100	50-128			
Matrix Spike (CY06305-MS1)	Sou	rce: CYI0462	-26	Prepared 8	k Analyzed:	09/14/15				
Benzene	18.2	5.0	µg/kg	20.0	ND	91	58-139			
Chlorobenzene	17.9	5.0	"	20.0	ND	90	62-134			
1,1-Dichloroethene	19.6	5.0	"	20.0	ND	98	53-152			
Toluene	18.2	5.0	"	20.0	ND	91	58-139			
Trichloroethene	17.9	5.0	"	20.0	ND	89	55-138			
Surrogate: 1,2-Dichloroethane-d4	38.0		"	30.0		127	50-125			QM-
Surrogate: Toluene-d8	34.8		"	30.0		116	62-125			
Surrogate: 4-Bromofluorobenzene	31.4		"	30.0		105	50-128			
Matrix Spike Dup (CY06305-MSD1)	Sou	rce: CYI0462	-26	Prepared &	k Analyzed:	09/14/15				
Benzene	16.5	5.0	µg/kg	20.0	ND	82	58-139	10	30	
Chlorobenzene	16.8	5.0	"	20.0	ND	84	62-134	6	30	
1,1-Dichloroethene	17.1	5.0	"	20.0	ND	86	53-152	13	30	
Toluene	16.0	5.0	"	20.0	ND	80	58-139	13	30	
Trichloroethene	16.4	5.0	"	20.0	ND	82	55-138	9	30	
Surrogate: 1,2-Dichloroethane-d4	36.2		"	30.0		121	50-125			
Surrogate: Toluene-d8	32.2		"	30.0		107	62-125			
Surrogate: 4-Bromofluorobenzene	30.1		"	30.0		100	50-128			

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09/16/15 10:53

Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CY06320 - EPA 5030 Water MS										
Blank (CY06320-BLK1)				Prepared &	k Analyzed:	09/15/15				
Acetone	ND	10	μg/L							
Benzene	ND	0.50	"							
Bromobenzene	ND	0.50	"							
Bromochloromethane	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	1.0	"							
2-Butanone	ND	10	"							
n-Butylbenzene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
ert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	1.0	"							
o-Chlorotoluene	ND	0.50	"							
o-Chlorotoluene	ND	0.50	"							
Dibromochloromethane	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Dibromomethane	ND	0.50	"							
,2-Dichlorobenzene	ND	0.50								
,3-Dichlorobenzene	ND	0.50								
I,4-Dichlorobenzene	ND	0.50								
Dichlorodifluoromethane (Freon 12)	ND	1.0								
,1-Dichloroethane	ND	0.50								
,2-Dichloroethane	ND	0.50								
,1-Dichloroethene	ND	0.50								
cis-1,2-Dichloroethene	ND	0.50								
rans-1,2-Dichloroethene	ND	0.50								

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Anglyta	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Not
Analyte	Result	Limit	Units	Level	Kesuit	%REC	Limits	KPD	Limit	Notes
Batch CY06320 - EPA 5030 Water MS										
Blank (CY06320-BLK1)				Prepared &	Analyzed:	09/15/15				
1,2-Dichloropropane	ND	0.50	μg/L							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
rans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
2-Hexanone	ND	10	"							
sopropylbenzene	ND	0.50	"							
Isopropyltoluene	ND	0.50	"							
Methylene chloride	ND	0.50	"							
-Methyl-2-pentanone	ND	10	"							
Methyl tert-butyl ether	ND	0.50	"							
Naphthalene	ND	0.50	"							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene	ND	0.50	"							
Γoluene	ND	0.50	"							
,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
,1,1-Trichloroethane	ND	0.50	"							
,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50								

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: [none]	CLS Work Order #: CYI0462
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CY06320 - EPA 5030 Water MS										
Blank (CY06320-BLK1)				Prepared &	Analyzed:	09/15/15				
1,3,5-Trimethylbenzene	ND	0.50	μg/L							
Vinyl chloride	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	9.08		"	10.0		91	66-135			
Surrogate: Toluene-d8	9.39		"	10.0		94	72-125			
Surrogate: 4-Bromofluorobenzene	9.04		"	10.0		90	73-125			
LCS (CY06320-BS1)				Prepared &	Analyzed:	09/15/15				
Benzene	17.7	0.50	μg/L	20.0		89	60-135			
Chlorobenzene	17.7	0.50	"	20.0		88	60-133			
1,1-Dichloroethene	17.0	0.50	"	20.0		85	42-150			
Toluene	17.9	0.50	"	20.0		89	60-137			
Trichloroethene	17.9	0.50	"	20.0		89	62-140			
Surrogate: 1,2-Dichloroethane-d4	9.72		"	10.0		97	66-135			
Surrogate: Toluene-d8	9.85		"	10.0		98	72-125			
Surrogate: 4-Bromofluorobenzene	11.9		"	10.0		119	73-125			
LCS Dup (CY06320-BSD1)				Prepared &	Analyzed:	09/15/15				
Benzene	17.8	0.50	μg/L	20.0		89	60-135	0.6	25	
Chlorobenzene	17.7	0.50	"	20.0		89	60-133	0.4	25	
1,1-Dichloroethene	16.7	0.50	"	20.0		84	42-150	2	25	
Foluene	18.1	0.50	"	20.0		90	60-137	0.9	25	
Frichloroethene	18.7	0.50	"	20.0		94	62-140	5	25	
Surrogate: 1,2-Dichloroethane-d4	8.70		"	10.0		87	66-135			
Surrogate: Toluene-d8	9.75		"	10.0		98	72-125			
Surrogate: 4-Bromofluorobenzene	11.4		"	10.0		114	73-125			

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	ch Geo spect Park Drive, Suite 100 Cordova, CA 95670	Project: Terramar 5100 Bro Project Number: [none] Project Manager: Tim Costello	CLS Work Order #: CYI0462 COC #:						
		Notes and Definitions							
QS-HI	Surrogate recovery was greater than the upper surrogate were not detected.	control limit. A reanalysis was not performed since	e the analytes associated with the						
QS-4	The surrogate recovery for this sample is outsi	de of established control limits due to a sample mat	rix effect.						
QRL-4	The reporting limits for this analysis are elevat	ted due to sample foaming.	o sample foaming.						
QM-7	The spike recovery was outside acceptance lin LCS/LCSD recovery.	nits for the MS and/or MSD. The batch was accepted	ed based on acceptable						
DET	Analyte DETECTED								
ND	Analyte NOT DETECTED at or above the reporting	limit (or method detection limit when specified)							
NR	Not Reported								
dry	Sample results reported on a dry weight basis								
RPD	Relative Percent Difference								

CALIFORNIA **L**ABORATORY **S**ERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

September 18, 2015

CLS Work Order #: CYI0463 COC #:

Tim Costello Tetra Tech Geo 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670

Project Name: Terramar 5100 Broadway

Enclosed are the results of analyses for samples received by the laboratory on 09/11/15 11:00. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D. Laboratory Director

CALIFORNIA **L**ABORATORY **S**ERVICES

Fech Geo						Project:	Terran	nar á	5100	Broa	dway	7						
rospect Park	Drive,	Suite 100			Project 1	Project Number: 117-7429001.06						CLS Work Order #: CYI0463						
o Cordova, C	CA 9567	0				Project Manager: Tim Costel												
CALI	CALIFORNIA LABORATORY SI				ES CHAIN	OF CU	STODY	:	CLS	ID.	NO.	CY	10	163	3			(_1_of
Ĩ		Report To:	~		Clien	t Job Numb 7429001.00	cr	Π	ANA	LYSI	IS RE	QUI	STED	GF	OTR	ACKE	R	
Tetra T	ech Inc.	2969 Prospect Pa	ark Dr.			tion Labora			4	Н	L			-				VES NO
		Rancho Cordova	, CA 95670)	57.00		25		PH-	PH-d	UF					PORT		L YES L NO
Project Mar		imothy.costello@	tatuataah aa		CL: 3249	5 (916) 6 Fitzgerald			2/2	/ mo	SN	P		G	OBA	L ID.		
Project Nan	ne		tetratech.co	em)		ho Cordov		PRE	200	(8015	fetal			FIE	LDC	OND	TIONS	\$:
Sampled By Keith Hoofe	/	0 Broadway				ifornialat	.com	SERV	Full	TPH-d / mo (8015M w/ SGT)	LUFT 5 Metals (6010)							
Job Descrip	tion	Cuttings Profiling from DC	-SB-15 thru DC	-SB-26	Отн	ER		PRESERVATIVES	TPH-g / VOCs Full Scan (8260B)	SGT)	10)							
August	August 31, 2015 Addendum Work Plan Site Location S100 Broadway Oakland, CA DATE TIME SAMPLE FIELD IDENTIFICATION ID.							(826)					1					
							B							ARO IN D		SPECIAL INSTRUCTIONS		
DATE			FIELD ID.	CONTAINER MATRIX NO. TYPE			1					1	2	3	5	1		
9-10-15	1500	DC-SOILPILE-1			SOIL	1	JAR	3	x	x	X				-	-	X	
					e egli a Pa											-		
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1.4									\pm									PO#
SUSPECTI	ED CONST	ITUENTS						\square	SAMP	LE RET	TENT	ON TI	ME	PR	ESER	VATI		QUOTE#
RELINQUE	SHED'BY (Signature)		RINT NAM	COMPANY		ATE/TIME	-		RECE	VEDI	V (Si	gnature)			ř.		2) HNO ₃ (4)= H2SO4 NT NAME/COMPANY
	1 The		Keith Ho	ofard/Te			115 089	3	Z	12	12	-	>			3		chergerar Tebrel
BUT	DATI	No.	13:11 50	Mear	Teha Te		7 1 7 3 7 11 - 4		(DET H	INFO	MM	NTS						n an taiste Tha taiste
RECEIVE	RECEIVED AT LAB BY			DATE/TIME: 5-11-15 100 CONDITIONSCOMM								e Distant						

CA DOHS ELAP Accreditation/Registration Number 1233

916-638-7301

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Tetra Tech Geo	Project:	Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYI0463
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SOILPILE-1 (CYI0463-01) Soil	Sampled: 09/10/15 15:00	Received: 09	9/11/15 1	1:00					EXT-3
Diesel	ND	1.0	mg/kg	1	CY06299	09/14/15	09/14/15	EPA 8015M	
Motor Oil	1.2	1.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		%	65	-135	"	"	"	"	QS-4

CALIFORNIA **L**ABORATORY **S**ERVICES

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Tetra Tech Geo	Project:	Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYI0463
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SOILPILE-1 (CYI0463-01) Soil	Sampled: 09/10/15 15:00	Received: 09	0/11/15 11	1:00					
Cadmium	ND	1.0	mg/kg	1	CY06322	09/15/15	09/15/15	EPA 6010B	
Chromium	74	5.0	"	"	"	"	"		
Lead	13	10	"	"	"	"	"	"	
Nickel	100	10	"	"	"	"	"	"	
Zinc	59	5.0	"	"	"	"	"	"	

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Tetra Tech Geo	Project: Terramar 5100 Bro	oadway
2969 Prospect Park Drive, Suite 100	Project Number: 117-7429001.06	CLS Work Order #: CYI0463
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:
	TPH-Gasoline by GC/MS	

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SOILPILE-1 (CYI0463-01) Soil	Sampled: 09/10/15 15:00	Received: 09	0/11/15 11	:00					
Gasoline	ND	0.20	mg/kg	1	CY06319	09/14/15	09/14/15	EPA 8260M	
Surrogate: Toluene-d8		88 %	65-	-135	"	"	"	"	

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ſ	Tetra Tech Geo	Project:	Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYI0463
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SOILPILE-1 (CYI0463-01) Soil	Sampled: 09/10/15 15:00	Received: 09	0/11/15 11	1:00					
1,1,1,2-Tetrachloroethane	ND	5.0	μg/kg	1	CY06319	"	09/14/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	"	"	"	"	"	"	
(Freon 113) 1,1,2-Trichloroethane	ND	5.0			"		"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"		"	"	
1,1-Dichloropropene	ND	5.0	"	"		"	"		
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"		"	"		
1,2,4-Trimethylbenzene	ND	5.0	"	"		"	"		
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"		"	"		
1,2-Dichlorobenzene	ND	5.0	"	"	"		"	"	
1,2-Dichloroethane	ND	5.0	"	"	"		"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"		"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"		"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	

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ſ	Tetra Tech Geo	Project:	Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYI0463
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B

Brownenthane ND 10 7	Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BromomethaneND10	DC-SOILPILE-1 (CYI0463-01) Soil	Sampled: 09/10/15 15:00	Received: 09	9/11/15 11	1:00					
Carbon tetrachlorideND5.0** <t< td=""><td>Bromoform</td><td>ND</td><td>5.0</td><td>μg/kg</td><td>1</td><td>CY06319</td><td>"</td><td>09/14/15</td><td>EPA 8260B</td><td></td></t<>	Bromoform	ND	5.0	μg/kg	1	CY06319	"	09/14/15	EPA 8260B	
ChlorobenzeneND5.0""" <td>Bromomethane</td> <td>ND</td> <td>10</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	Bromomethane	ND	10	"	"	"	"	"	"	
ChloroethaneND5.0"""	Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
ChloroformND5.0""<"""""""""""""""""""""""<	Chlorobenzene	ND	5.0	"	"	"	"	"	"	
ChloromethaneND10"""	Chloroethane	ND	5.0	"	"	"	"	"	"	
sis 1,2-DichloroetheneND5,0''	Chloroform	ND	5.0	"	"	"	"	"	"	
Instruction of the interview ND 5.0 " <t< td=""><td>Chloromethane</td><td>ND</td><td>10</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td></td></t<>	Chloromethane	ND	10	"	"	"	"	"	"	
Dibronochlorenthane ND 5.0 "	cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
DibromomethaneND5.0""" <td>cis-1,3-Dichloropropene</td> <td>ND</td> <td>5.0</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dichlorodituoromethane (Freon 12) ND 10 "	Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene ND 5.0 "	Dibromomethane	ND	5.0	"	"	"		"	"	
ND 5.0 "	Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"		"	"	
IsopropylbenzeneND5.0"""<	Ethylbenzene	ND	5.0	"	"	"		"	"	
Methyl tert-butyl ether ND 5.0 " " " " " " Methylene chloride ND 20 " " " " " " " Naphthalene ND 5.0 " " " " " " " n-Butylbenzene ND 5.0 " " " " " " " n-Propylbenzene ND 5.0 "	Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Methylene chloride ND 20 "	Isopropylbenzene	ND	5.0	"	"	"		"	"	
Naphthalene ND 5.0 "	Methyl tert-butyl ether	ND	5.0	"	"	"		"	"	
n-ButylbenzeneND5.0""" <td>Methylene chloride</td> <td>ND</td> <td>20</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	Methylene chloride	ND	20	"	"	"	"	"	"	
n-PropylbenzeneND5.0"""""""""o-ChlorotolueneND5.0"""""""""o-ChlorotolueneND5.0"""""""""o-StopropyltolueneND5.0"""""""""o-StopropyltolueneND5.0"""""""""sec-ButylbenzeneND5.0"""	Naphthalene	ND	5.0	"	"	"	"	"	"	
ND 5.0 "	n-Butylbenzene	ND	5.0	"	"	"		"	"	
p-Chlorotoluene ND 5.0 "	n-Propylbenzene	ND	5.0	"	"	"		"	"	
P-IsopropyltolueneND5.0"""""""sec-ButylbenzeneND5.0""""""""StyreneND5.0"""""""""tert-ButylbenzeneND5.0""""""""TetrachloroetheneND5.0""""""""TolueneND5.0"""""""""trans-1,2-DichloroetheneND5.0""""""""trans-1,3-DichloroptopeneND5.0""""""""	o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
ND 5.0 "	p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
ND 5.0 "	p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
ND 5.0 "	sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene ND 5.0 "	Styrene	ND	5.0	"		"		"	"	
Toluene ND 5.0 " <th"< td=""><td>tert-Butylbenzene</td><td>ND</td><td>5.0</td><td>"</td><td>"</td><td>"</td><td></td><td>"</td><td>"</td><td></td></th"<>	tert-Butylbenzene	ND	5.0	"	"	"		"	"	
trans-1,2-DichloroetheneND5.0"""""""trans-1,3-DichloropropeneND5.0"""""""	Tetrachloroethene	ND	5.0	"	"	"		"	"	
trans-1,3-Dichloropropene ND 5.0 " " " " " "	Toluene	ND	5.0	"		"		"	"	
	trans-1,2-Dichloroethene	ND	5.0	"				"	"	
Trichloroethene ND 5.0 " " " " "	trans-1,3-Dichloropropene	ND	5.0	"		"		"	"	
	Trichloroethene	ND	5.0	"		"		"	"	

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Tetra Tech Geo 2969 Prospect Park Drive, Suite 100	Project:	CLS Work Order #: CYI0463
	Project Manager:	COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SOILPILE-1 (CYI0463-01) Soil	Sampled: 09/10/15 15:00	Received: 09	9/11/15 11:	:00					
Trichlorofluoromethane	ND	5.0	µg/kg	1	CY06319	"	09/14/15	EPA 8260B	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		129 %	50-	125	"	"	"	"	QS-HI
Surrogate: 4-Bromofluorobenzene		107 %	50-	128	"	"	"	"	
Surrogate: Toluene-d8		88 %	62-	125	"	"	"	"	

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ſ	Tetra Tech Geo	Project:	Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYI0463
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Extractable Petroleum Hydrocarbons by EPA Method 8015M - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Linit	ento	Lever	itesuit	/utele	Linits	IU D	Linit	Trotes
Batch CY06299 - CA LUFT - orb shaker										
Blank (CY06299-BLK1)				Prepared &	a Analyzed	: 09/14/15				
Diesel	ND	1.0	mg/kg							
Motor Oil	ND	1.0	"							
Mineral Oil	ND	1.0	"							
Surrogate: o-Terphenyl	0.432		"	0.500		86	65-135			
LCS (CY06299-BS1)				Prepared &	t Analyzed	: 09/14/15				
Diesel	54.5	1.0	mg/kg	50.0		109	65-135			
Surrogate: o-Terphenyl	0.480		"	0.500		96	65-135			
LCS Dup (CY06299-BSD1)				Prepared &	t Analyzed	: 09/14/15				
Diesel	54.3	1.0	mg/kg	50.0		109	65-135	0.3	30	
Surrogate: o-Terphenyl	0.474		"	0.500		95	65-135			
Matrix Spike (CY06299-MS1)	Sou	rce: CYI0463	-01	Prepared &	t Analyzed	: 09/14/15				
Diesel	58.2	1.0	mg/kg	50.0	ND	116	59-138			
Surrogate: o-Terphenyl	0.419		"	0.500		84	65-135			
Matrix Spike Dup (CY06299-MSD1)	Sou	rce: CYI0463	-01	Prepared &	a Analyzed	: 09/14/15				
Diesel	60.5	1.0	mg/kg	50.0	ND	121	59-138	4	37	
Surrogate: o-Terphenyl	0.467		"	0.500		93	65-135			

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2969 Prospect Park Drive, Suite 100Project Number: 117-7429001.06Rancho Cordova, CA 95670Project Manager: Tim Costello	Broadway CLS Work Order #: CY10463 COC #:	
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Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CY06322 - EPA 3050B	Tesur		0.110	20101	rtosuit	, video	2	10.0		110100
Blank (CY06322-BLK1)				Prepared &	Analyzed:	09/15/15				
Cadmium	ND	1.0	mg/kg							
Chromium	ND	5.0	"							
Lead	ND	10	"							
Nickel	ND	10	"							
Zinc	ND	5.0	"							
LCS (CY06322-BS1)				Prepared &	Analyzed:	09/15/15				
Cadmium	97.9	1.0	mg/kg	100		98	75-125			
Chromium	98.5	5.0	"	100		98	75-125			
Lead	95.1	10	"	100		95	75-125			
Nickel	91.7	10	"	100		92	75-125			
Zinc	95.2	5.0	"	100		95	75-125			
Matrix Spike (CY06322-MS1)	Sou	rce: CYI0536	-01	Prepared &	Analyzed:	09/15/15				
Cadmium	94.3	1.0	mg/kg	100	2.23	92	75-125			
Chromium	127	5.0	"	100	41.4	86	75-125			
Lead	759	10	"	100	715	45	75-125			QM-4X
Nickel	111	10	"	100	24.9	86	75-125			
Zinc	673	5.0	"	100	555	118	75-125			
Matrix Spike Dup (CY06322-MSD1)	Sou	rce: CYI0536	-01	Prepared &	Analyzed:	09/15/15				
Cadmium	91.5	1.0	mg/kg	100	2.23	89	75-125	3	30	
Chromium	132	5.0	"	100	41.4	90	75-125	4	30	
Lead	759	10	"	100	715	44	75-125	0.06	30	QM-4X
Nickel	110	10	"	100	24.9	85	75-125	0.8	30	
Zinc	647	5.0	"	100	555	92	75-125	4	30	

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Tetra Tech Geo	Project:	Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYI0463
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

TPH-Gasoline by GC/MS - Quality Control

RPD Limit	Notes
Limit	Notes
30	
35	
	30

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ſ	Tetra Tech Geo	Project:	Terramar 5100 Broadway	
	2969 Prospect Park Drive, Suite 100	Project Number:	117-7429001.06	CLS Work Order #: CYI0463
	Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Angleta	Dagult	Reporting	Unita	Spike	Source	% DEC	%REC	DDD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CY06319 - EPA 5030 Soil MS										
Blank (CY06319-BLK1)				Prepared &	& Analyzed:	09/14/15				
Acetone	ND	100	µg/kg							
Benzene	ND	5.0	"							
Bromobenzene	ND	5.0	"							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	10	"							
2-Butanone	ND	100	"							
n-Butylbenzene	ND	5.0	"							
ec-Butylbenzene	ND	5.0	"							
ert-Butylbenzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	10	"							
-Chlorotoluene	ND	5.0	"							
o-Chlorotoluene	ND	5.0	"							
Dibromochloromethane	ND	5.0	"							
,2-Dibromo-3-chloropropane	ND	10	"							
,2-Dibromoethane (EDB)	ND	5.0	"							
Dibromomethane	ND	5.0	"							
,2-Dichlorobenzene	ND	5.0	"							
,3-Dichlorobenzene	ND	5.0	"							
,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane (Freon 12)	ND	10	"							
,1-Dichloroethane	ND	5.0	"							
,2-Dichloroethane	ND	5.0	"							
,1-Dichloroethene	ND	5.0	"							
is-1,2-Dichloroethene	ND	5.0	"							
rans-1,2-Dichloroethene	ND	5.0								

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Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7429001.06	CLS Work Order #: CYI0463
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CY06319 - EPA 5030 Soil MS										
Blank (CY06319-BLK1)				Prepared &	Analyzed:	09/14/15				
1,2-Dichloropropane	ND	5.0	µg/kg							
1,3-Dichloropropane	ND	5.0	"							
2,2-Dichloropropane	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
2-Hexanone	ND	50	"							
sopropylbenzene	ND	5.0	"							
p-Isopropyltoluene	ND	5.0	"							
Methylene chloride	ND	20	"							
4-Methyl-2-pentanone	ND	50	"							
Methyl tert-butyl ether	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
Toluene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
,3,5-Trimethylbenzene	ND	5.0	"							

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1,1-Dichloroethene

Toluene

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	Project Number:	Terramar 5100 Broadway 117-7429001.06	CLS Work Order #: CY10463
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch CY06319 - EPA 5030 Soil MS											
Blank (CY06319-BLK1)				Prepared &	k Analyzed:	: 09/14/15					
1,2,4-Trimethylbenzene	ND	5.0	µg/kg								
Vinyl chloride	ND	10	"								
Xylenes (total)	ND	10	"								
Surrogate: 1,2-Dichloroethane-d4	35.4		"	30.0		118	50-125				
Surrogate: Toluene-d8	27.5		"	30.0		92	62-125				
Surrogate: 4-Bromofluorobenzene	30.9		"	30.0		103	50-128				
LCS (CY06319-BS1)				Prepared &	k Analyzed:	: 09/14/15					
Benzene	17.6	5.0	µg/kg	20.0		88	64-135				
Chlorobenzene	17.7	5.0	"	20.0		89	67-133				
1,1-Dichloroethene	17.3	5.0	"	20.0		86	53-137				
Toluene	17.0	5.0	"	20.0		85	61-138				
Trichloroethene	18.1	5.0	"	20.0		90	64-130				
Surrogate: 1,2-Dichloroethane-d4	33.8		"	30.0		113	50-125				
Surrogate: Toluene-d8	32.0		"	30.0		107	62-125				
Surrogate: 4-Bromofluorobenzene	29.8		"	30.0		99	50-128				
LCS Dup (CY06319-BSD1)				Prepared &	k Analyzed:	: 09/14/15					
Benzene	18.1	5.0	µg/kg	20.0		90	64-135	3	30		
Chlorobenzene	18.1	5.0	"	20.0		91	67-133	2	30		
1,1-Dichloroethene	18.8	5.0	"	20.0		94	53-137	8	30		
Toluene	18.3	5.0	"	20.0		91	61-138	7	30		
Trichloroethene	17.7	5.0		20.0		89	64-130	2	30		
Surrogate: 1,2-Dichloroethane-d4	34.3		"	30.0		114	50-125				
Surrogate: Toluene-d8	33.5		"	30.0		112	62-125				
Surrogate: 4-Bromofluorobenzene	28.1		"	30.0		94	50-128				
Matrix Spike (CY06319-MS1)	Sou	rce: CYI0536	-01	Prepared: 09/14/15 Analyzed: 09/15/15							
Benzene	9.02	5.0	µg/kg	20.0	ND	45	58-139			QM	
Chlorobenzene	5.34	5.0	"	20.0	ND	27	62-134			QM	

CA DOHS ELAP Accreditation/Registration Number 1233

5.0

5.0

...

"

10.7

6.43

20.0

20.0

ND

ND

53

32

53-152

58-139

QM-7

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Tetra Tech Geo 2969 Prospect Park Drive, Suite 100 Bancho Cordova, CA 95670	5	117-7429001.06	CLS Work Order #: CYI0463
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CY06319 - EPA 5030 Soil MS										
Matrix Spike (CY06319-MS1)	Sour	Source: CYI0536-01			Prepared: 09/14/15 Analyzed: 09/15/15					
Trichloroethene	7.35	5.0	µg/kg	20.0	ND	37	55-138			QM-7
Surrogate: 1,2-Dichloroethane-d4	33.8		"	30.0		113	50-125			
Surrogate: Toluene-d8	29.2		"	30.0		97	62-125			
Surrogate: 4-Bromofluorobenzene	35.5		"	30.0		118	50-128			
Matrix Spike Dup (CY06319-MSD1)	Source: CYI0536-01			Prepared: 09/14/15 Analyzed: 09/15/15						
Benzene	11.3	5.0	µg/kg	20.0	ND	56	58-139	22	30	QM-7
Chlorobenzene	9.21	5.0		20.0	ND	46	62-134	53	30	QM-7, QR-1
1,1-Dichloroethene	13.5	5.0	"	20.0	ND	67	53-152	23	30	
Toluene	9.50	5.0	"	20.0	ND	48	58-139	39	30	QM-7, QR-1
Trichloroethene	10.2	5.0	"	20.0	ND	51	55-138	32	30	QM-7, QR-1
Surrogate: 1,2-Dichloroethane-d4	35.0		"	30.0		117	50-125			
Surrogate: Toluene-d8	29.4		"	30.0		98	62-125			
			"	30.0		119	50-128			

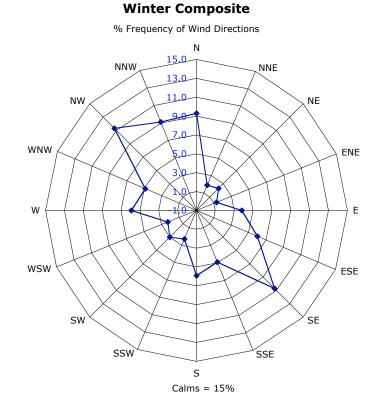
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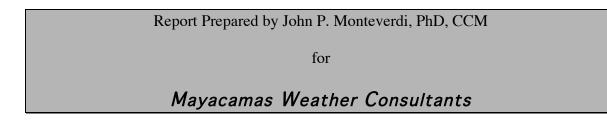
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	ch Geo ospect Park Drive, Suite 100 Cordova, CA 95670	Project: Terrama Project Number: 117-7429 Project Manager: Tim Costa	
		Notes and Definitions	
QS-HI	Surrogate recovery was greater than the upper surrogate were not detected.	control limit. A reanalysis was not perf	formed since the analytes associated with the
QS-4	The surrogate recovery for this sample is outsi	de of established control limits due to a	sample matrix effect.
QR-1	The RPD value for the sample duplicate or MS batch accepted based on LCS and/or LCSD reasons and the same set of the same set	~ I	ee limits due to matrix interference. QC
QM-7	The spike recovery was outside acceptance lin LCS/LCSD recovery.	hits for the MS and/or MSD. The batch	was accepted based on acceptable
QM-4X	The spike recovery was outside of QC accepta the spike concentration. The QC batch was acc		5
EXT-3	The sample extract has undergone silica-gel cl	ean-up, EPA Method 3630, which is spe	ecific to polar compound contamination.
DET	Analyte DETECTED		
ND	Analyte NOT DETECTED at or above the reporting	limit (or method detection limit when specific	ied)
NR	Not Reported		
dry	Sample results reported on a dry weight basis		
RPD	Relative Percent Difference		

APPENDIX F Wind Direction References

Background Information: Wind and Rainfall Climatology for the Lake Merritt Area of Oakland, CA: Period 1950-1970





Report on Wind and Rainfall Climatology for the Lake Merritt Area of Oakland, CA: Period 1950-1970

A. Assignment

The consultant was given the task of reporting on the general wind conditions and rainfall conditions in the area of Lake Merritt, Oakland, CA for the period 1950-1970. In particular, he was asked to obtain general wind directions and wind speeds and monthly rainfall on the basis of techniques used by meteorologists to estimate such conditions if site observations are not available.

B. Location of Property and Data Limitations

The site for which climatological information was to be estimated is near the western side of Lake Merritt in Oakland, CA (see Fig. 1 for locations). During the period 1950-1970, there was no official National Weather Service recording site located at or near the property, although there is more recent rainfall information for Oakland Museum. Although there is long term wind and rainfall information for Oakland International Airport (KOAK), Alameda Naval Air Station (KNGZ) is located much closer, only about 3 miles WSW of the site, and does have summarized wind information for the period.

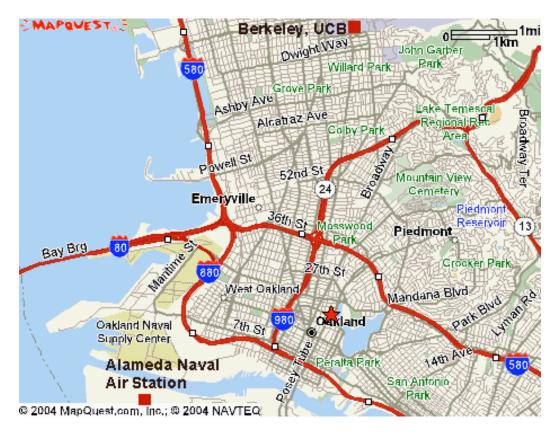


Figure 1: Location Map. Star marks approximate location of site for which information is estimated. Location of nearest long term wind site (Alameda Naval Air station) and rainfall information (Berkeley, UCB) shown by read squares.

In addition, KNGZ is situated at the same latitude as the site with respect to the Golden Gate, and could be expected to experience similar wind directions and wind speeds, although speeds at KNGZ would be slightly greater due to its greater open exposure. Influence of the buildings around Lake Merritt could lead to either greater or lesser wind speeds in the vicinity of the site than at KNGZ, depending upon the point of estimation and would be impossible to estimate without a site study. With all these factors considered, the consultant makes the judgment that the wind information for KNGZ is most representative of conditions at the site during the period in question.

Also, although long term rainfall information is available for KOAK, its average annual rainfall (as well as monthly totals and sequencing of daily rainfall amounts) would be less representative of those on the site than the totals from the National Weather Service cooperative observing point at University of California, Berkeley. Moreover, the consultant was the actual weather observer at UC Berkeley during the late 1960s and 1970s and can vouch for the accuracy of those totals. Moreover, the mean annual rainfall at UC Berkeley is roughly the same as that at the site as estimated from annual precipitation maps (around 23 inches) whereas the mean annual rainfall at KOAK is slightly less than 18 inches. With all these factors considered, the consultant makes the judgment that the rainfall information for the UC Berkeley site is most representative of conditions at the site during the period in question.

C. Sources of Information Used in this Report

The consultant used the following information (either included in report or as an attachment) in arriving at his opinions regarding the wind conditions at the accident site:

- Weather information at official NWS observation sites at Berkeley, and KOAK [archived and available from Western Regional Climate Center (www.wrcc.dri.edu) and the National Climatic Data Center (http://lwf.ncdc.noaa.gov/oa/ncdc.html)]
- Summarized wind information for Alameda Naval Air Station from California Air Resources Board, 1984: California Surface Wind Climatology

D. Qualifications of Consultant

The consultant is a Professor of Meteorology at San Francisco State University and has taught there since 1979. He holds the BA, MA and PhD degrees and also has been certified by the American Meteorological Society (AMS) by oral and written exams as competent to serve as consultant in the area of meteorology and has been awarded the status of Certified Consulting Meteorologist (CCM). The consultant's research area is in severe and unusual weather in California and he has authored many refereed publications in the meteorological literature and several technical memoranda. He has served as Co-Editor of the AMS journal *Weather and Forecasting*, as a member of the AMS Committee on Severe Local Storms, and as Chair of the Department of Geosciences at San Francisco State University. My rates for consulting are \$275 per hour of my time

with a minimum of 3 hours for expert witness testimony and 1 hour minimum plus expenses for deposition.

- E. Interpretation of the Wind Information
- i. Wind roses and average speed histograms

Meteorologists often array wind information not in tabular form, which is difficult to visualize, but in a circular table called a "wind rose". The wind rose is a way of portraying the frequency (usually as a percentage of the total number of observations) that the wind direction lies on one of the 16 compass points.

Each of the points in the 16-point circular display is labeled with the wind direction (as the direction from which the wind is coming). The circular rings within this circular display represent the percentage frequency that each of the shown wind directions was observed during the period of record.

For the purposes of this study, the period of record (1945-1968) is broken into seasonal quarters, as follows: (a) Winter – December, January, February; (b) Spring – March, April, May; (c) Summer – June, July, August; (d) Fall – September, October, November. The wind rose for winter, for example, would show the frequency (based upon the total number of observations during all Decembers, Januarys, and Februarys in the period 1945-1968) that the given wind direction occurred as a percentage of the total number of observations. In the case of KNGZ, observations were available for each hour of the day.

Although some wind roses have the average wind speed for each of the wind directions also shown, the consultant chose to display those on a separate histogram chart, placed directly under the corresponding wind rose.

ii. Summer Wind Information

Summer wind information at the site during the period can be estimated from Fig. 2(a) and 2(b), the summer wind rose and wind speed histogram for KNGZ. The dominant wind (prevailing wind) is clearly westerly. Note that the average wind speed of westerly winds is over 12 mph. Only the spring wind pattern has an average wind speed that is that great. The fact that winds are almost uniformly from a westerly quadrant during the summer is indicated by the fact that nearly 72% of all observations during the summer are either SW, WSW, W, or WNW.

This is consistent with the meteorology of the region, in which onshore (from the ocean) flow occurs nearly incessantly from the offshore Pacific High pressure area to the California Thermal Low to our east. These circulation features begin dominating the weather of the region in late Spring and continue through early Fall.

Summer Composite

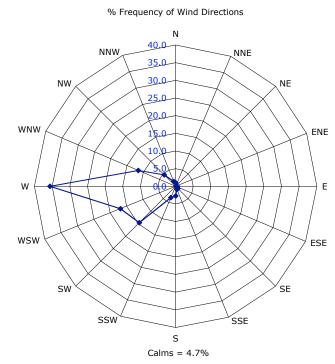


Figure 2(a): Summer Composite (June, July and August) Wind Rose. Wind direction defined as the direction from which wind is blowing (e.g., W = west wind...wind moving from west to east). Wind rose shows number of observations of a given wind direction as a percentage of the total hourly observations in 24 hours for each day of 3 month period.

Average Summer Speeds

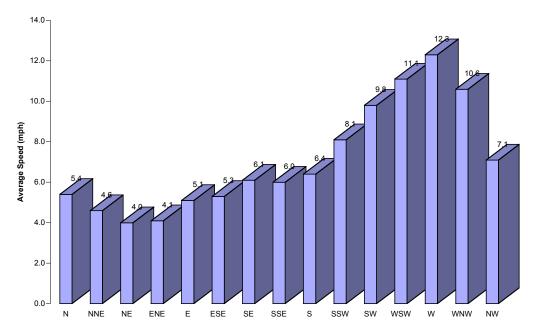


Figure 2(b): Summer Average Wind Speeds (mph) for each direction shown in Fig 2(a)

iii. Winter Wind Information

Winter wind information at the site during the period can be estimated from Fig. 3(a) and 3(b), the winter wind rose and wind speed histogram for KNGZ. The dominance of the westerly wind in the summer is no longer apparent. Two factors explain the double prevailing wind direction (northwest and southeast). First, the part of the pressure pattern dominated by heating/cooling effects of the continent and the oceans is reversed from summer to winter, so that high pressure lies on the continent and lower pressures offshore, particularly at night. This results in southeasterly flow.

During the day, a weak onshore pressure gradient returns as the continent warms, resulting in a tendency for northwest winds to be observed. But also, winter storms that approach the coast often have southerly or southeasterly winds ahead of them, and northwest winds behind. All these factors together account for the marked difference in the winter wind rose for the summer wind rose.

Since winter storms often have strong winds just ahead (in the southeast flow) and behind (in the northwest flow), the strongest wind speeds in Fig. 3 (b) are associated with these two wind directions.

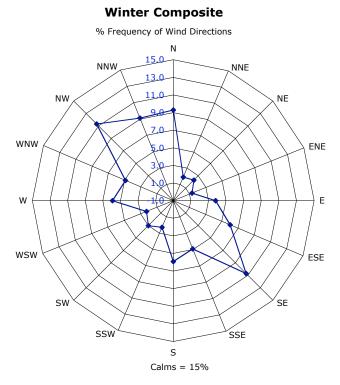


Figure 3(a): As in Fig 1(a) except for Winter Composite (December, January, February) Wind Rose.

Winter Average Speeds

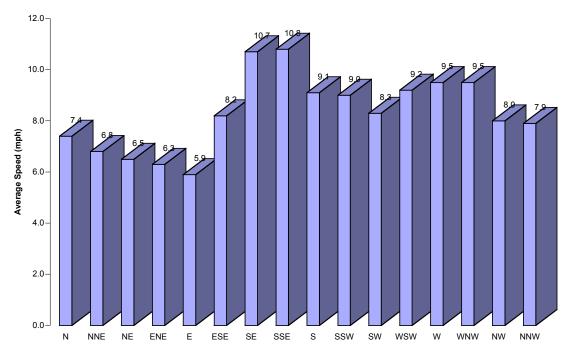


Figure 3(b): Winter Average Wind Speeds (mph) for each direction shown in Fig 3(a)

iii. Spring and Fall Wind Information

Spring wind information at the site during the period can be estimated from Fig. 4(a) and 4(b) and 5(a) and 5(b), the spring and fall wind roses and wind speed histogram sfor KNGZ. While cool season storm systems still bring a good frequency of southeast winds to the area early in the spring and late in the fall, the dominance of the summer pattern begins to emerge in April and May and still are persistent in September and the early part of October. This is reflected in the return to dominance of the westerly winds (in Figs. 4(a) and 5(a)) but the appearance of relatively strong speeds in the east-southeast, southeast and south-southeast directions. Another maximum in wind speeds and in direction frequency occurs in the north direction, probably due to the occasional occurrences of offshore (Diablo) winds in the late spring, and, particularly, early fall.

Spring Composite

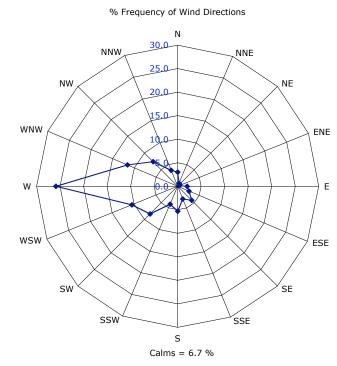


Figure 4(a): As in Fig 1(a) except for Spring Composite (March, April, May) Wind Rose.

Average Spring Speeds

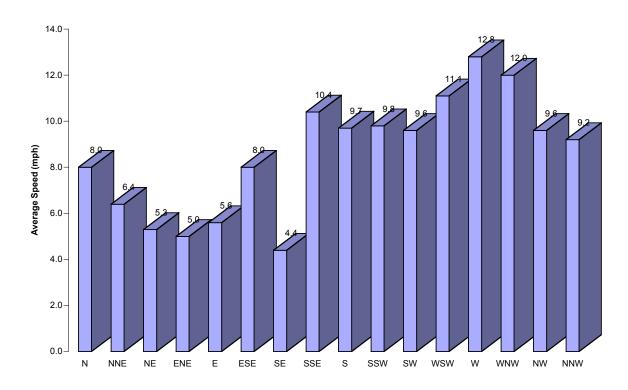


Figure 4(b): Spring Average Wind Speeds (mph) for each direction shown in Fig 4(a)

Fall Composite

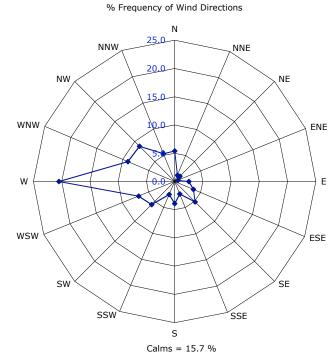


Figure 5(a): As in Fig 1(a) except for Fall Composite (September, October, November) Wind Rose.

Average Fall Speeds

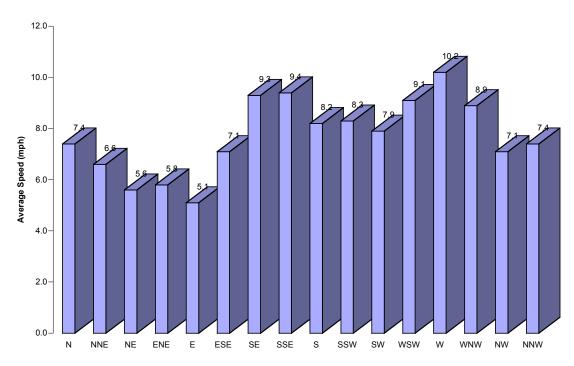


Figure 5(b): Spring Average Wind Speeds (mph) for each direction shown in Fig 5(a)

F. Rainfall Information

The monthly rainfall information for the site can be assumed to be similar to the rainfall for the Berkeley site, as explained above. This information is included in Table 1.

Table 1 gives the monthly rainfall for each month in the calender year for the period 1950-1970. The consultant has also included the annual total and the monthly and annual averages for this period for comparsion purposes.

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1950				1.01	0.50	0.02	0.01	0.00	0.00	3.28	7.42	6.67	33.57
1951	5.03	2.58		1.24	0.94	0.02	0.00	0.48	0.06	1.70	4.82		27.98
1952	8.92	2.47	4.81	1.27	0.25	0.74	0.00	0.00	0.00	0.07	2.34	9.28	30.15
1953	4.70	0.00	2.80	2.91	0.53	0.34	0.00	0.08	0.00	0.49	2.16	0.71	14.72
1954	3.67	2.95	4.20	1.18	0.13	0.25	0.00	0.27	0.00	0.14	2.98	6.07	21.84
1955	5.46	1.24	0.43	1.84	0.20	0.00	0.00	0.00	0.03	0.05	2.23	15.04	26.52
1956	7.23	3.54	0.03	1.90	1.06	0.00	0.00	0.00	0.25	2.48	0.05	0.26	16.80
1957	2.81	4.06	3.34	1.65	3.56	0.06	0.00	0.00	1.64	2.94	0.52	3.78	24.36
1958	5.48	9.14	7.06	6.06	0.29	0.24	0.00	0.04	0.10	0.31	0.16	1.42	30.30
1959	4.69	4.63	0.58	0.36	0.03	0.00	0.00	0.00	2.62	0.04	0.00	1.54	14.49
1960	3.96	3.56	2.44	1.05	1.00	0.00	0.00	0.00	0.00	0.33	3.89	1.39	17.62
1961	2.73	1.38	3.14	1.11	0.76	0.00	0.00	0.12	0.36	0.12	4.50	2.45	16.67
1962	1.92	8.83	2.92	0.66	0.00	0.00	0.00	0.12	0.41	7.05	0.94	3.50	26.35
1963	4.84	3.10	3.51	5.97	0.53	0.08	0.00	0.06	0.10	1.61	3.38	0.60	23.78
1964	4.96	0.16	2.21	0.05	0.32	0.76	0.00	0.01	0.00	1.28	3.63	8.27	21.65
1965	4.53	0.88	2.10	3.79	0.00	0.00	0.02	0.18	0.00	0.17	5.77	3.56	21.00
1966	4.76	3.38	0.67	0.73	0.16	0.12	0.09	0.17	0.13	0.00	4.92	4.48	19.61
1967	10.34	0.35	5.60	5.73	0.07	1.21	0.00	0.00	0.02	0.56	1.56	2.23	27.67
1968	6.16	3.04	3.84	0.44	0.23	0.00	0.00	0.55	0.00	0.81	2.89	5.13	23.09
1969	9.22	8.76	1.44	2.46	0.00	0.03	0.00	0.00	0.00	2.12	1.43	8.47	33.93
1970	11.14	1.85	1.71	0.00	0.00	0.56	0.00	0.00	0.00	0.94	7.79	7.52	31.51
Mean	5.78	3.28	2.73	1.97	0.50	0.21	0.01	0.10	0.27	1.26	3.02	4.85	23.98

Table 1. Monthly and Annual Rainfall, 1950-1970, for Berkeley, CA (Earth Sciences Building, UCB)