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October 12, 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

TETRA TECH

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
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Alameda, California 94502

and

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Tetra Tech Project 117-7429001.06

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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
2) *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, µg/Kg); SB-3-4' (14 µg/Kg); and SB-4-3.5' (17 µg/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, $\mu g/m^3$); and VMP-3 (3,600 $\mu g/m^3$). 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 HCl). 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 ½" 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 (¼" 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 (µg/Kg) and 1,100 µg/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 µg/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 µg/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 µg/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 µg/Kg, with one detection of 650 µg/Kg. The 650 µg/Kg detection (DC-SB-24-9.5') exceeds the Commercial ESL value for acetone in soil of 500 µg/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 - µg/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 µg/m3 and 500 µg/m3 in the 5-foot and 14-foot vapor samples, respectively, at DC-VMP-14, and at 850 µg/m3 in the 5-foot vapor sample at DC-VMP-15. The Commercial ESL value for vinyl chloride in soil vapor is 160 µg/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

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ranging from 17 to 75 micrograms per liter (µg/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 non-residential, 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 on-site 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 1
Analytical Results Summary - Soil
Former Rockridge Cleaners Area
5100 Broadway (Former 5114 tenant space)
Oakland, California

Sample Location	Date Sampled	Depth (feet, bgs)	VOCs - EPA 8260B (µg/Kg)								
			Acetone	Freon 12	n-Butylbenzene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC
Shallow Soil - Immediate Vicinty of Former Dry Cleaner and Adjacent Former Tenant Spaces											
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
Deeper Soil - Immediate Vicinity of Former Dry Cleaner and Adjacent Former Tenant Spaces, and Step-Out Locations											
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	15	< 100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10

TABLE 1
Analytical Results Summary - Soil
Former Rockridge Cleaners Area
5100 Broadway (Former 5114 tenant space)
Oakland, California

Sample Location	Date Sampled	Depth (feet, bgs)	VOCs - EPA 8260B (µg/Kg)								
			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 SAMPLES - ENCOUNTERED BEDROCK 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 COMPLETED - WATER LINE/NEARBY UTILITY 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
CHHSL - Commercial			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 aspahlt 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

			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 (%)**
Shallow Soil Vapor - Immediate Vicinty of Former Dry Cleaner and Adjacent Former Tenant Spaces												
DC-VMP-1	8/4/2015	4.75 - 5	No Sample (1)									NA
DC-VMP-2	8/4/2015	4.75 - 5	< 520	**600**	< 180	**85,000**	**130,000**	**120,000**	**2,300**	**680**	**8,100**	< 0.11
DC-VMP-3	8/4/2015	4.75 - 5	< 140	**79**	**34**	**11,000**	**4,000**	**4,400**	< 23	< 23	**30**	**5.4**
DC-VMP-4	8/4/2015	4.75 - 5	< 140	< 72	< 46	**54,000**	**41,000**	**2,600**	< 57	< 57	< 37	< 0.12
DC-VMP-5	8/4/2015	4.75 - 5	< 130	**2,000**	< 44	**45,000**	**39,000**	**24,000**	**1,400**	**280**	**7,100**	< 0.11
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	**13,000**	< 0.12
DC-VMP-7	8/4/2015	4.75 - 5	**53**	**12**	< 3.7	**140**	< 6.3	< 4.6	< 4.6	< 4.6	< 3.0	< 0.14
DC-VMP-8	8/4/2015	4.75 - 5	< 270	**3,300**	< 37	**380**	**720**	**7,400**	**380**	**55**	**6,100**	< 0.11
Shallow and Deep Soil Vapor - Immediate Vicinty of Former Dry Cleaner and Adjacent Former Tenant Spaces, and Step-Out Locations												
DC-VMP-9	9/15/2015	4.75 - 5	**34**	< 6.2	**15**	< 8.5	< 6.8	< 5.0	< 5.0	< 5.0	**4.8**	< 0.13
	9/15/2015	14.75 - 15	**30**	< 6.2	**12**	< 8.5	< 6.8	**12**	< 5.0	< 5.0	**13**	< 0.13
DC-VMP-10	9/15/2015	4.75 - 5	< 120	< 25	< 16	**100**	**220**	**1,700**	**110**	**29**	**5,300**	< 0.13
		12.75 - 13	No Sample (1)									NA
DC-VMP-11	9/15/2015	4.75 - 5	**630**	< 120	< 78	**720**	**1,300**	**4,300**	**250**	**< 96**	**17,000**	< 0.12
	9/15/2015	12.75 - 13	**54**	< 6.5	**8.4**	**39**	**40**	**30**	< 5.2	< 5.2	**13**	< 0.13
DC-VMP-12	9/15/2015	4.75 - 5	< 380	< 78	< 51	**1,600**	**12,000**	**17,000**	**620**	**140**	**12,000**	< 0.12
		13.75 - 14	No Sample (1)									NA
DC-VMP-13	9/15/2015	4.75 - 5	< 48	< 10.0	**8.9**	**1,500**	**31**	< 8.0	< 8.0	< 8.0	< 5.2	< 0.20
DC-VMP-14	9/15/2015	4.75 - 5	**330**	< 5.8	**63**	**17**	**38**	**95**	**33**	**6.9**	**210**	< 0.12
	9/15/2015	13.75 - 14	**150**	< 6.0	**18**	**17**	**50**	**90**	**17**	**12**	**500**	< 0.12
DC-VMP-15	9/15/2015	4.75 - 5	**150**	< 5.8	**54**	**680**	**310**	**1,200**	**100**	**13**	**850**	< 0.12
	9/15/2015	12.75 - 13	**88**	< 6.0	**11**	**9.1**	**7.3**	**18**	< 4.8	< 4.8	**35**	< 0.12
DC-VMP-16			Not completed due to utility conflicts									NA
DC-VMP-17	9/15/2015	4.75 - 5	**57**	< 6.1	**13**	**24**	< 6.6	< 4.9	< 4.9	< 4.9	< 3.2	**0.39**
	9/15/2015	14.75 - 15	**120**	< 6.1	**16**	**10**	< 6.6	**7.3**	< 4.9	< 4.9	**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 - Commercial			140,000,000	NV	420	2,100	3,000	31,000	260,000	880,000	160	NA
CHHSL - Commercial			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

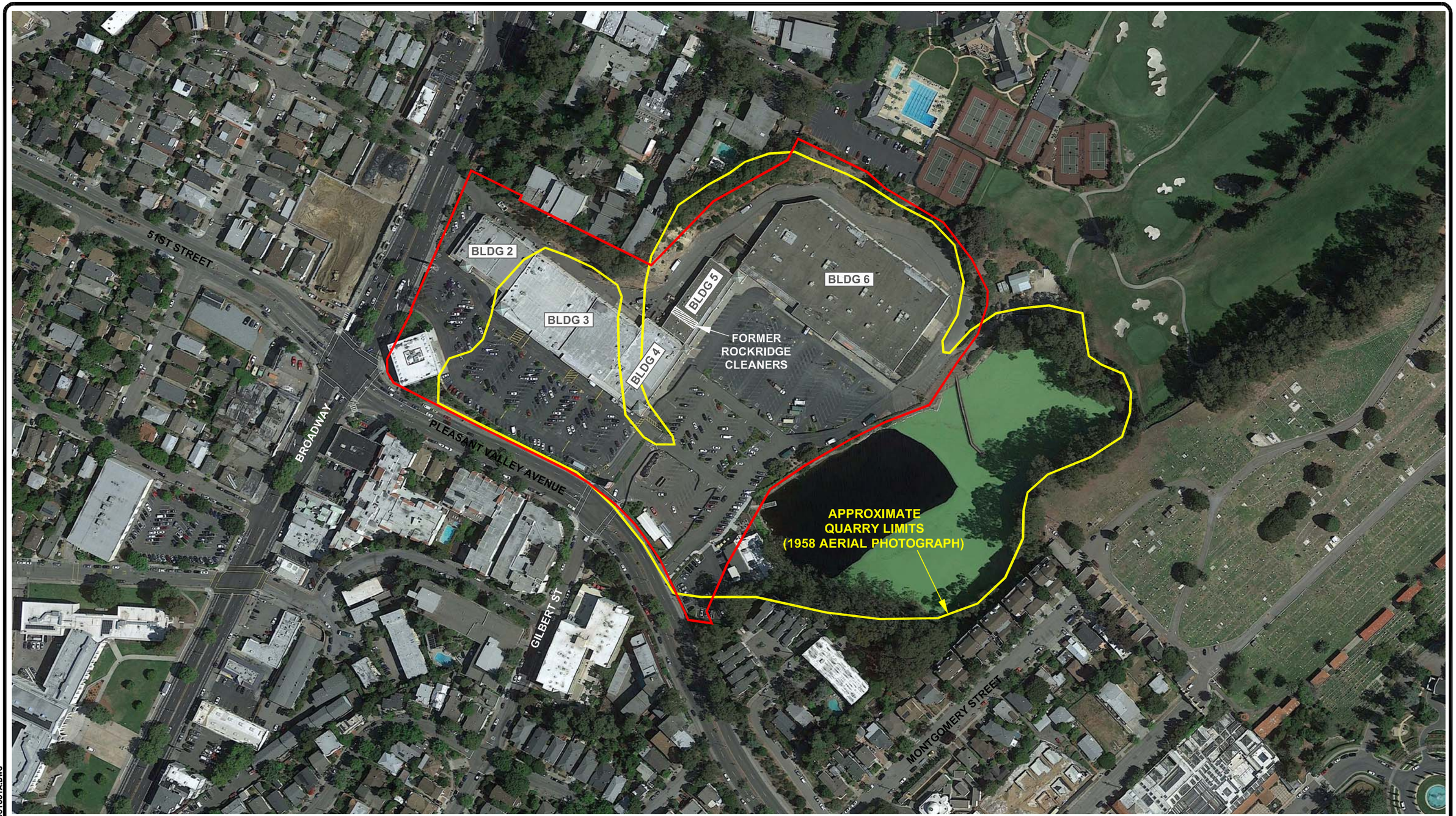
TABLE 3
Analytical Results Summary - Groundwater
Former Rockridge Cleaners Area
5100 Broadway (Former 5114 tenant space)
Oakland, California

			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		NO GROUNDWATER SAMPLE - ENCOUNTERED BEDROCK 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 LINE/NEARBY UTILITY 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
ESL - 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	

Notes:

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



SOURCE: GOOGLE EARTH PRO AERIAL DATED JUNE 2015.

N

0 200 400

SCALE IN FEET

TITLE: **SITE MAP**
EXISTING ROCKRIDGE SHOPPING CENTER

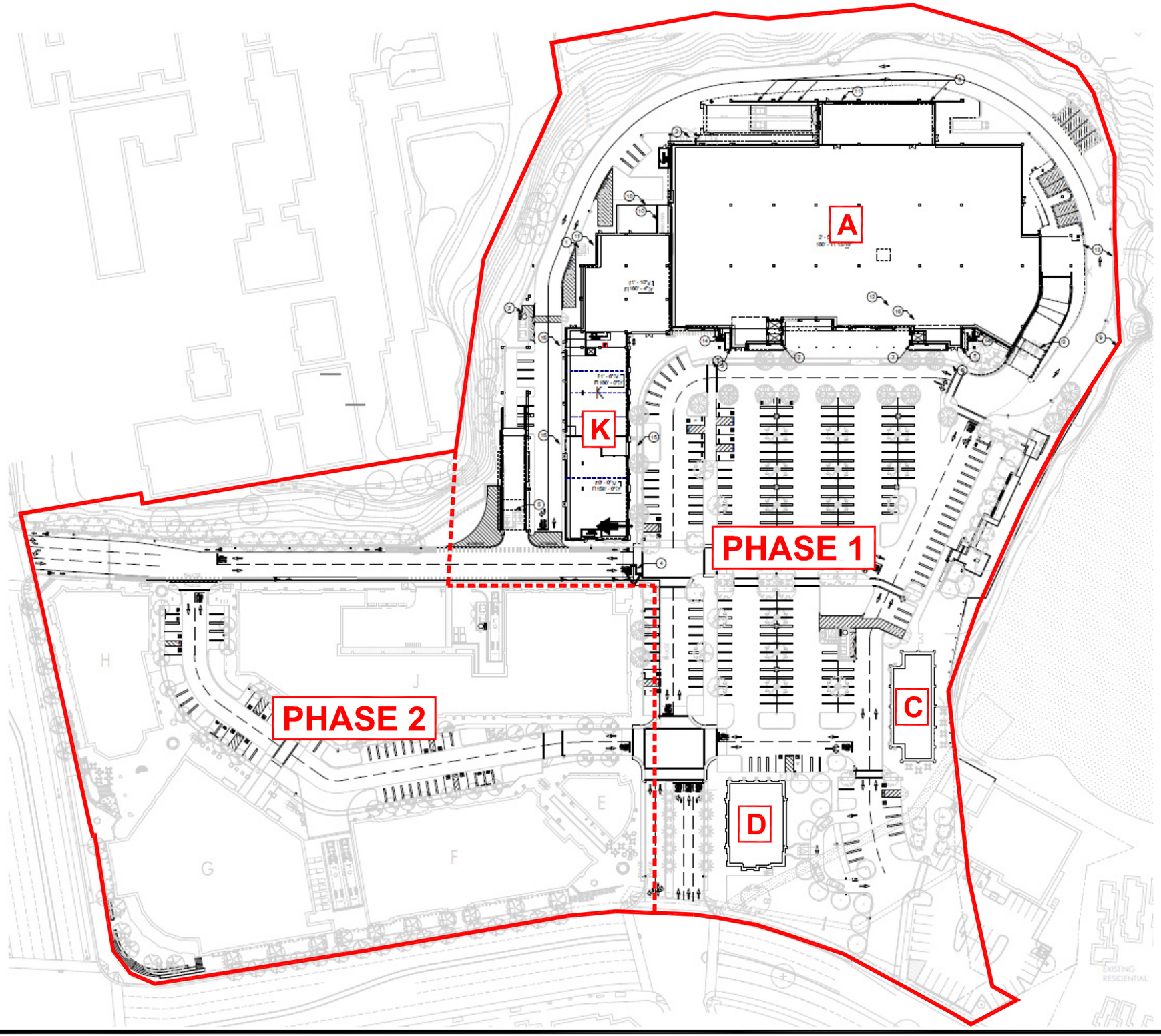
LOCATION: **5100 Broadway**
Oakland, California

TETRA TECH

APPROVED	TC
DRAFTED	CP
PROJECT#	117-7429001
DATE	9-21-15

FIGURE 1

P:\ACAD\7429-001-OAKL\7429001001A.DWG



0 100 200

SCALE IN FEET

SOURCE: JRDV ARCHITECTS, DRAWING AS111 DATED MAY 30, 2014

TITLE: **REDEVELOPMENT PLAN**
PROPOSED SHOPS AT THE RIDGE

LOCATION: **5100 Broadway**
Oakland, California

TETRA TECH

APPROVED	TC
DRAFTED	CP
PROJECT#	117-7429001
DATE	9-21-15

FIGURE **2**

P:\ACAD\7429-001-OAKL\7429001002A.DWG

LEGEND

- SOIL BORING - 2001 (GEOTRANS)
- SOIL BORING - 2014 (TETRATECH - FORMERLY GEOTRANS)
- SOIL VAPOR MONITORING POINT - 2014 (TETRA TECH)
- SUB-SLAB VAPOR MONITORING POINT - 2014 (TETRA TECH)
- SANITARY SEWER - APPROX. 7.5' BGS
- STORM DRAIN
- WATER LINE
- NATURAL GAS LINE
- S — SANITARY SEWER MANHOLE
- SD — STORM DRAIN GRATE
- CHAIN LINK STORAGE ENCLOSURE
- T — EXISTING TRANSFORMER
- X — REMOVED TRANSFORMER

MiniRAE 3000 PID SCREENING

- 0-6" (FROM BOTTOM OF SLAB) ALL 0.0 PPMV
- 36" (BENEATH PERIMETER FOOTING) ALL 0.0 PPMV

0 20 40
SCALE IN FEET

N

SOURCE: GOOGLE EARTH PRO AERIAL DATED JUNE 2015.

P:\ACAD\7429-001-OAKL\7429001003A.DWG

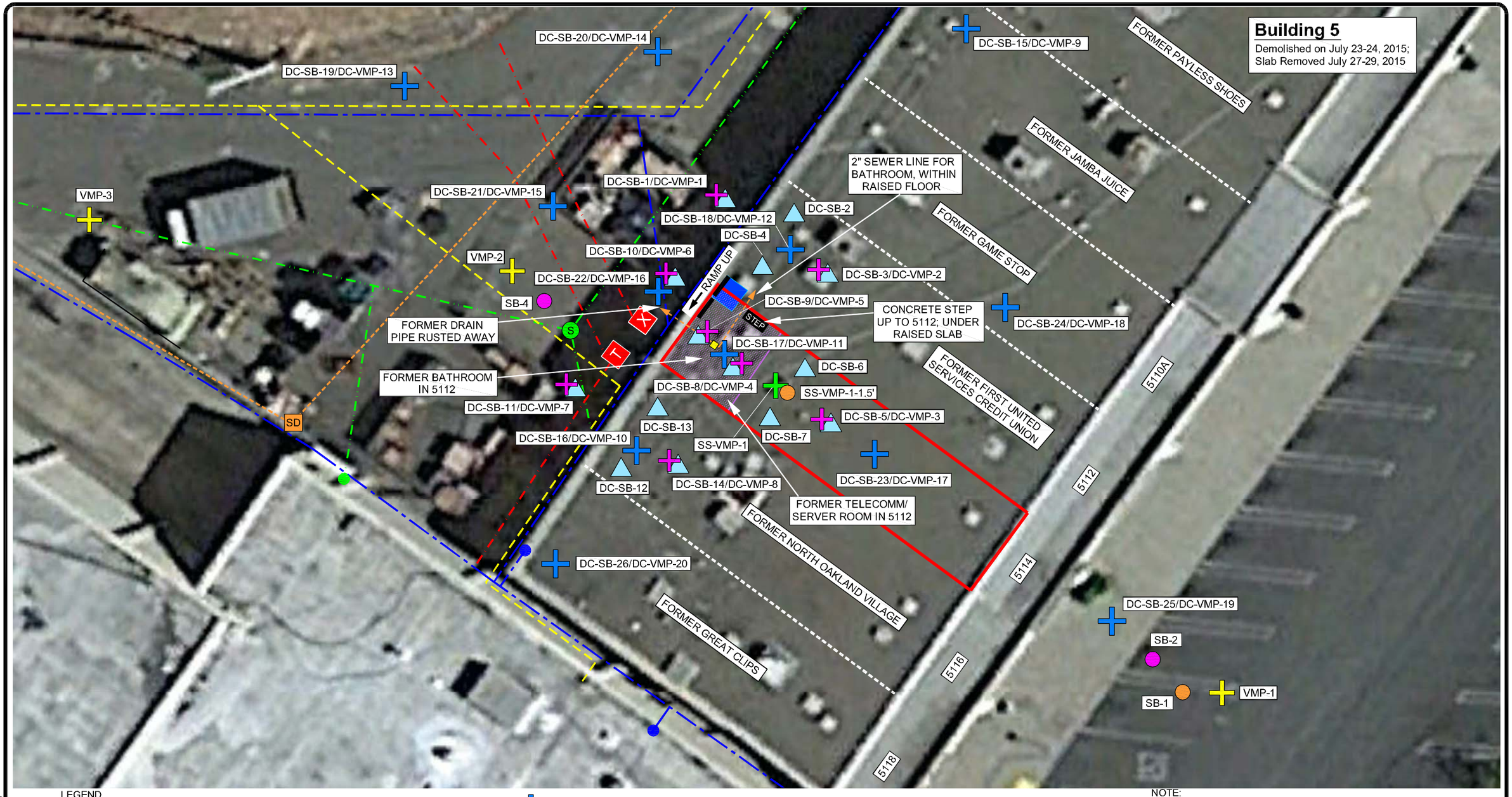
TITLE: **SMP BOUNDARIES FORMER ROCKRIDGE CLEANERS**

LOCATION: **5114 Broadway Oakland, California**

TETRA TECH

APPROVED	TC
DRAFTED	CP
PROJECT#	117-7429001
DATE	9-21-15

FIGURE 3



LEGEND

- SOIL BORING - 2001 (GEOTRANS)
- SOIL BORING - 2014 (TETRATECH - FORMERLY GEOTRANS)
- SOIL VAPOR MONITORING POINT - 2014 (TETRA TECH)
- SUB-SLAB VAPOR MONITORING POINT - 2014 (TETRA TECH)
- SOIL BORING (5' BGS, SAMPLE 1' AND 5') - 7/30/15 (TETRA TECH)
- SOIL VAPOR MONITORING POINT (5' BGS) - 7/30/15 (TETRA TECH) SAMPLED AND ABANDONED ON 8/4/15
- SANITARY SEWER - APPROX. 7.5' BGS
- STORM DRAIN
- WATER LINE
- NATURAL GAS LINE
- S — SANITARY SEWER MANHOLE
- SD — STORM DRAIN GRATE
- T — EXISTING TRANSFORMER
- X — REMOVED TRANSFORMER
- SOIL, SOIL VAPOR AND GW SAMPLE LOCATION - 9/8-9/10/15 (TETRA TECH)
- 12" X 12" FLOOR DRAIN AT REAR OF FORMER CLEANER, BENEATH RAISED SLAB INSTALLED TO EXPAND 5112 TENANT SPACE
- FORMER DOORS - WALLED OVER AND NOT USED BY RECENT TENANT (CREDIT UNION)
- 4' X 4' FOYER, ORIGINAL 5112 TO 5114, WITH ENTRY DOOR AT SIDEWALK GRADE. RAMP INSTALLED ACROSS FRONT OF DOOR AT LATER
- 14" RAISED SLAB TO MATCH ELEVATION OF 5112 SLAB, EXPANDING 5112 SPACE (NOT ORIGINAL TO 5114). CONCRETE DEBRIS FROM WALL-CUT BETWEEN TENANT SPACES USED AS FILL BEFORE CONCRETE POUR, WHICH INCLUDED FOYER AREA INITIALLY. FOYER FILLED IN WITH CERAMIC TOILET DEBRIS AT A LATER DATE AND CONCRETED OVER (LIKELY WHEN RAMP WAS CONSTRUCTED).

0 15 30
SCALE IN FEET

N

NOTE:
DC-SB-22/DC-VMP-16 NOT COMPLETED DUE TO UTILITY CONFLICTS.

SOURCE: GOOGLE EARTH PRO AERIAL DATED JUNE 2015.

TITLE:
ADDITIONAL SOIL, SOIL VAPOR AND GROUNDWATER SAMPLE LOCATIONS, FORMER ROCKRIDGE CLEANERS

LOCATION:
5114 Broadway
Oakland, California

TETRA TECH

APPROVED	TC
DRAFTED	CP
PROJECT#	117-7429001
DATE	10-8-15

FIGURE 4

P:\ACAD\7429-001-OAKL\7429001004A.DWG

Building 5
Demolished on July 23-24, 2015;
Slab Removed July 27-29, 2015

DC-SB-20/DC-VMP-14
DC-SB-19/DC-VMP-13
DC-SB-15/DC-VMP-9
FORMER PAYLESS SHOES
FORMER JAMBA JUICE
2" SEWER LINE FOR BATHROOM, WITHIN RAISED FLOOR
VMP-3
DC-SB-21/DC-VMP-15
DC-SB-1/DC-VMP-1
DC-SB-18/DC-VMP-12
DC-SB-2
DC-SB-4
FORMER GAME STOP
VMP-2
DC-SB-10/DC-VMP-6
DC-SB-3/DC-VMP-2
DC-SB-22/DC-VMP-16
RAMP UP
SB-4
DC-SB-9/DC-VMP-5
CONCRETE STEP UP TO 5112; UNDER RAISED SLAB
STEP
DC-SB-24/DC-VMP-18
FORMER DRAIN PIPE RUSTED AWAY
S
X
T
DC-SB-17/DC-VMP-11
DC-SB-6
FORMER BATHROOM IN 5112
DC-SB-8/DC-VMP-4
SS-VMP-1-1.5'
FORMER FIRST UNITED SERVICES CREDIT UNION
5110A
DC-SB-11/DC-VMP-7
DC-SB-5/DC-VMP-3
SD
DC-SB-13
DC-SB-7
DC-SB-16/DC-VMP-10
SS-VMP-1
DC-SB-12
DC-SB-14/DC-VMP-8
DC-SB-23/DC-VMP-17
5112
FORMER TELECOMM/ SERVER ROOM IN 5112
FORMER NORTH OAKLAND VILLAGE
DC-SB-26/DC-VMP-20
5114
DC-SB-25/DC-VMP-19
FORMER GREAT CLIPS
SB-2
5116
SB-1
VMP-1
5118

LEGEND

- SOIL BORING - 2001 (GEOTRANS)
- SOIL BORING - 2014 (TETRATECH - FORMERLY GEOTRANS)
- SOIL VAPOR MONITORING POINT - 2014 (TETRA TECH)
- SUB-SLAB VAPOR MONITORING POINT - 2014 (TETRA TECH)
- SOIL BORING (5' BGS, SAMPLE 1' AND 5') - 7/30/15 (TETRA TECH)
- SOIL VAPOR MONITORING POINT (5' BGS) - 7/30/15 (TETRA TECH) SAMPLED AND ABANDONED ON 8/4/15
- SANITARY SEWER - APPROX. 7.5' BGS
- STORM DRAIN
- WATER LINE
- NATURAL GAS LINE
- SANITARY SEWER MANHOLE
- STORM DRAIN GRATE
- EXISTING TRANSFORMER
- REMOVED TRANSFORMER
- SOIL, SOIL VAPOR AND GW SAMPLE LOCATION - 9/8-9/10/15 (TETRA TECH)
- 12" X 12" FLOOR DRAIN AT REAR OF FORMER CLEANER, BENEATH RAISED SLAB INSTALLED TO EXPAND 5112 TENANT SPACE
- FORMER DOORS - WALLED OVER AND NOT USED BY RECENT TENANT (CREDIT UNION)
- 4' X 4' FOYER, ORIGINAL 5112 TO 5114, WITH ENTRY DOOR AT SIDEWALK GRADE. RAMP INSTALLED ACROSS FRONT OF DOOR AT LATER
- 14" RAISED SLAB TO MATCH ELEVATION OF 5112 SLAB, EXPANDING 5112 SPACE (NOT ORIGINAL TO 5114). CONCRETE DEBRIS FROM WALL-CUT BETWEEN TENANT SPACES USED AS FILL BEFORE CONCRETE POUR, WHICH INCLUDED FOYER AREA INITIALLY. FOYER FILLED IN WITH CERAMIC TOILET DEBRIS AT A LATER DATE AND CONCRETED OVER (LIKELY WHEN RAMP WAS CONSTRUCTED).

0 15 30
SCALE IN FEET

N

NOTE:
DC-SB-22/DC-VMP-16 NOT COMPLETED DUE TO UTILITY CONFLICTS.

SOURCE: SWINERTON BUILDERS AERIAL, AUGUST 31, 2015

TITLE:
ADDITIONAL SOIL, SOIL VAPOR AND GROUNDWATER SAMPLE LOCATIONS, FORMER ROCKRIDGE CLEANERS

LOCATION:
5114 Broadway
Oakland, California

TETRA TECH

APPROVED	TC
DRAFTED	CP
PROJECT#	117-7429001
DATE	10-8-15

FIGURE 5

P:\ACAD\7429-001-OAKL\7429001004A.DWG

DC-SB-19 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC	Freon 12	Acetone
1 - 4'	No sample – Mostly Loose Rock						
5'	Bedrock						
DC-VMP-13-5' (µg/m3)	< 8.0	1,500	< 8.0	31	< 5.2	< 10.0	< 48

DC-SB-10 (µg/Kg)	Cis-1,2-DCE	PCE	Trans -1,2-DCE	TCE	VC
1'	ND	2,700	ND	5.6	ND
5'	5.6	1,100	ND	12	ND
DC-VMP-6-5' (µg/m3)	65,000	19,000,000	ND	99,000	13,000

DC-SB-20 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC	Freon 12	Acetone
6'	< 5	< 5	< 5	< 5	< 10	< 10	< 100
10'	< 5	< 5	< 5	< 5	< 10	< 10	< 100
17'	< 5	< 5	< 5	< 5	< 10	< 10	< 100
GW (µg/L)	< 5	< 5	< 5	< 5	< 10	47	< 100
DC-VMP-14-5' (µg/m3)	95	17	33	38	210	< 5.8	330
DC-VMP-14-14' (µg/m3)	90	17	17	50	500	< 6.0	150

DC-SB-1 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC
1'	5.0	6.0	ND	ND	ND
5'	ND	ND	ND	ND	ND
DC-VMP-1-5' (µg/m3)	No Sample – Water in Probe				

DC-SB-9 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC
1'	ND	54	ND	6.4	ND
5'	6.0	39	ND	8.7	ND
DC-VMP-5-5' (µg/m3)	24,000	45,000	1,400	39,000	7,100

DC-SB-15 (µg/Kg)	Cis-1,2-DCE	PCE	Trans -1,2-DCE	TCE	VC	Freon 12	Acetone
12'	< 5	< 5	< 5	< 5	< 10	< 10	120
17'	< 5	< 5	< 5	< 5	< 10	< 10	< 100
GW (µg/L)	< 5	< 5	< 5	< 5	< 10	17	< 100
DC-VMP-9-5' (µg/m3)	< 5.0	< 8.5	< 5.0	< 6.8	4.8	< 6.2	34
DC-VMP-9-14' (µg/m3)	12	< 8.5	< 5.0	< 6.8	13	< 6.2	30

DC-SB-21 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC	Freon 12	Acetone
7'	< 5	< 5	< 5	< 5	< 10	< 10	< 100
13.5'	< 5	< 5	< 5	< 5	< 10	< 10	< 100
17'	< 5	< 5	< 5	< 5	< 10	< 10	< 100
GW (µg/L)	< 5	< 5	< 5	< 5	< 10	39	< 100
DC-VMP-15-5' (µg/m3)	1,200	680	100	310	850	< 5.8	150
DC-VMP-15-13' (µg/m3)	18	9.1	< 4.8	7.3	35	< 6.0	88

DC-SB-2 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC
1'	25	36	ND	21	ND
5'	27	ND	ND	36	ND

DC-SB-17 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC	Freon 12	Acetone
12'	< 5	< 5	< 5	< 5	< 10	< 10	< 100
15'	< 5	< 5	< 5	< 5	< 10	< 10	< 100
GW (µg/L)	< 5	< 5	< 5	< 5	< 10	< 10	< 100
DC-VMP-11-5' (µg/m3)	4,300	720	250	1,300	17,000	< 120	630
DC-VMP-11-13' (µg/m3)	30	39	< 5.2	40	13	< 6.5	54

DC-SB-18 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC	Freon 12	Acetone
11.5'	< 5	< 5	< 5	< 5	< 10	< 10	< 100
17'	< 5	< 5	< 5	< 5	< 10	< 10	130
GW (µg/L)	< 5	< 5	< 5	< 5	< 10	21	< 100
DC-VMP-12-5' (µg/m3)	17,000	1,600	620	12,000	12,000	< 78	< 380
DC-VMP-12-14' (µg/m3)	No Sample – Water in Probe						

DC-SB-8 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC
1'	ND	7.8	ND	ND	ND
5'	6.3	8.1	ND	12	ND
DC-VMP-4-5' (µg/m3)	2,600	54,000	ND	41,000	ND

DC-SB-3 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC
1'	ND	11	ND	ND	ND
5'	26	12	ND	12	ND
DC-VMP-2-5' (µg/m3)	120,000	85,000	2,300	130,000	8,100

DC-SB-11 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC
1'	ND	ND	ND	ND	ND
5'	ND	ND	ND	ND	ND
DC-VMP-7-5' (µg/m3)	ND	140	ND	ND	ND

DC-SB-24 (µg/Kg)	Cis-1,2-DCE	PCE	Trans -1,2-DCE	TCE	VC	Freon 12	Acetone
9.5'	< 5	< 5	< 5	< 5	< 10	< 10	650
13.5'	< 5	< 5	< 5	< 5	< 10	< 10	170
17	< 5	< 5	< 5	< 5	< 10	< 10	200
GW (µg/L)	< 5	< 5	< 5	< 5	< 10	< 10	< 100
DC-VMP-18-5' (µg/m3)	1,100	160	30	250	22	< 6.2	50
DC-VMP-18-13' (µg/m3)	190	48	5.8	56	4.1	< 6.2	< 30

DC-SB-13 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC
1'	ND	ND	ND	ND	ND
5'	ND	ND	ND	ND	ND

DC-SB-4 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC
1'	16	10	ND	15	ND
5'	23	6.9	ND	19	ND

DC-SB-16 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC	Freon 12	Acetone
8'	< 5	< 5	< 5	< 5	< 10	< 10	< 100
13'	< 5	< 5	< 5	< 5	< 10	< 10	< 100
15'	< 5	< 5	< 5	< 5	< 10	< 10	150
GW (µg/L)	< 5	< 5	< 5	< 5	< 10	47	< 100
DC-VMP-10-5' (µg/m3)	1,700	100	110	220	5,300	< 25	< 120
DC-VMP-10-13' (µg/m3)	No Sample – Water in Probe						

DC-SB-6 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC
1'	8	21	ND	10	ND
5'	23	12	ND	17	ND

DC-SB-25 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC	Freon 12	Acetone
9'	< 5	< 5	< 5	< 5	< 10	< 10	220
11.5'	< 5	< 5	< 5	< 5	< 10	< 10	130
16.5'	< 5	< 5	< 5	< 5	< 10	< 10	220
19'	< 5	< 5	< 5	< 5	< 10	< 10	< 100
GW (µg/L)	< 5	< 5	< 5	< 5	< 10	< 10	< 100
DC-VMP-19-5' (µg/m3)	< 4.6	< 7.9	< 4.6	< 6.3	< 3.0	< 5.8	40
DC-VMP-19-11' (µg/m3)	11	< 8.4	< 4.9	< 6.6	21	< 6.1	96

DC-SB-12 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC
1'	ND	ND	ND	ND	ND
5'	ND	ND	ND	ND	ND

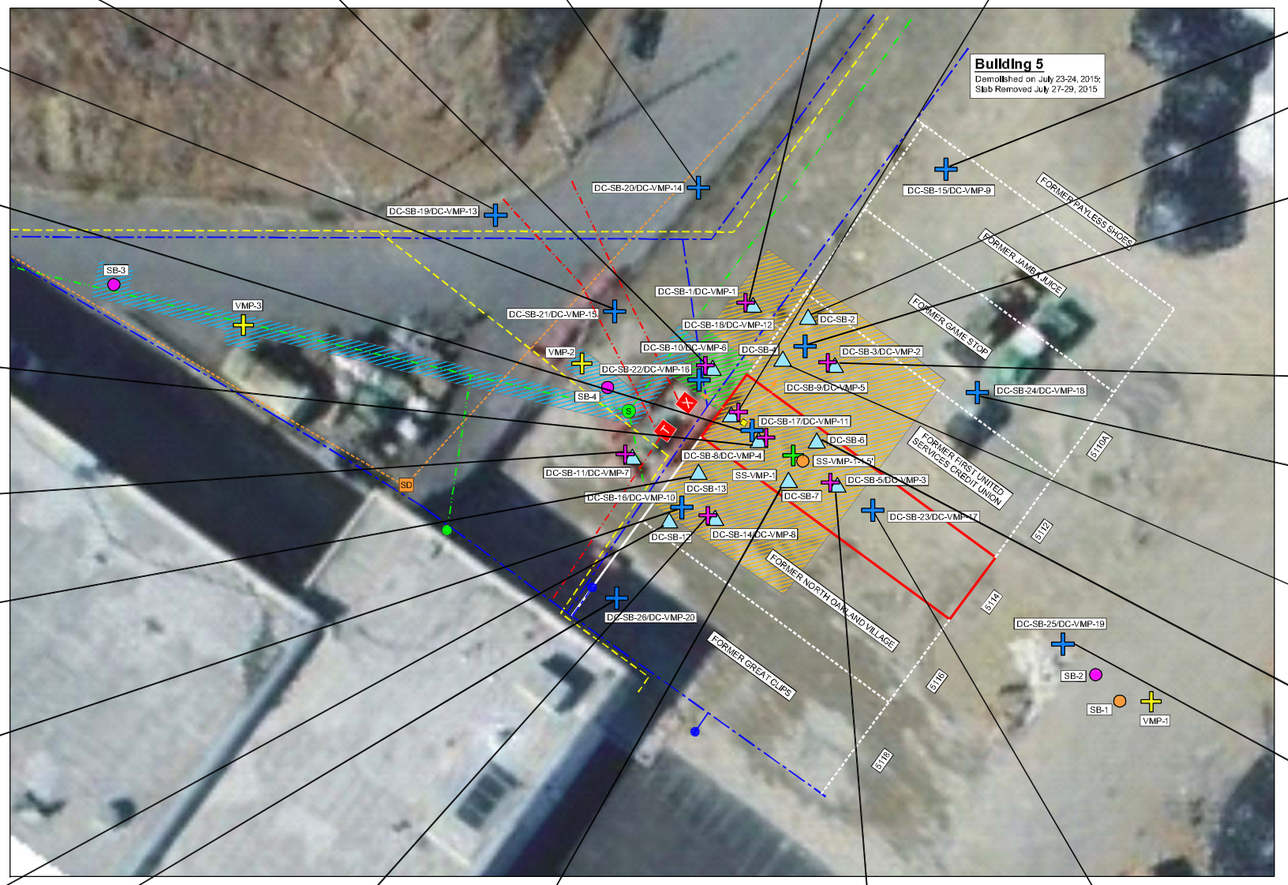
DC-SB-7 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC
1'	5.2	6.8	ND	ND	ND
5'	6.0	7.5	ND	ND	ND

DC-SB-5 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC
1'	ND	ND	ND	ND	ND
5'	23	19	ND	9.2	ND
DC-VMP-3-5' (µg/m3)	4,400	11,000	ND	4,000	30

DC-SB-23 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC	Freon 12	Acetone
7.5'	< 5	< 5	< 5	20	< 10	< 10	< 100
14.5'	< 5	< 5	< 5	< 5	< 10	< 10	< 100
GW (µg/L)	< 5	< 5	< 5	< 5	< 10	24	< 100
DC-VMP-17-5' (µg/m3)	< 4.9	24	< 4.9	< 6.6	< 3.2	< 6.1	57
DC-VMP-17-13' (µg/m3)	7.3	10.0	< 4.9	< 6.6	31	< 6.1	120

DC-SB-26 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC	Freon 12	Acetone
9.5'	< 5	< 5	< 5	< 5	< 10	< 10	140
14.5'	< 5	< 5	< 5	< 5	< 10	< 10	110
GW (µg/L)	< 5	< 5	< 5	< 5	< 10	75	< 100
DC-VMP-20-5' (µg/m3)	< 4.9	120	< 4.9	8.1	5.6	< 6.1	59
DC-VMP-20-10' (µg/m3)	< 96	< 160	< 96	< 130	< 62	< 120	< 580

DC-SB-14 (µg/Kg)	Cis-1,2-DCE	PCE	Trans-1,2-DCE	TCE	VC
1'	ND	ND	ND	ND	ND
5'	ND	ND	ND	ND	ND
DC-VMP-8-5' (µg/m3)	7,400	380	380	720	6,100



LEGEND

- SOIL BORING - 2001 (GEOTRANS)
- SOIL BORING - 2014 (TETRATECH - FORMERLY GEOTRANS)
- SOIL VAPOR MONITORING POINT - 2014 (TETRA TECH)
- SUB-SLAB VAPOR MONITORING POINT - 2014 (TETRA TECH)
- SOIL BORING (5' BGS, SAMPLE 1' AND 5') - 7/30/15 (TETRA TECH)
- SOIL VAPOR MONITORING POINT (5' BGS) - 7/30/15 (TETRA TECH) SAMPLED AND ABANDONED ON 8/4/15
- SANITARY SEWER - APPROX. 7.5' BGS
- STORM DRAIN
- WATER LINE
- NATURAL GAS LINE
- SS: SANITARY SEWER MANHOLE
- SD: STORM DRAIN GRATE
- T: EXISTING TRANSFORMER
- X: REMOVED TRANSFORMER
- SOIL, SOIL VAPOR AND GW SAMPLE LOCATION - 9/8-9/10/15 (TETRA TECH)
- ~7.5 FT: INITIAL SOIL EXCAVATION ALONG SS (7.5 FEET BGS, BOTTOM OF PIPE) - APPROXIMATELY 105 CY IN-PLACE (127 CY EX-SITU; 152 TN)
- ~8 FT: ADDITIONAL SOIL EXCAVATION TO 8 FEET BGS FOR SOURCE REMOVAL - APPROXIMATELY 270 CY IN-PLACE (350 CY EX-SITU; 420 TN)
- ~8 FT: ADDITIONAL SOIL EXCAVATION TO 10' X 10' X 8 FEET BGS FOR SOURCE REMOVAL - APPROXIMATELY 30 CY IN-PLACE (35 CY EX-SITU; 43 TN)

NOTE:
DC-SB-22/DC-VMP-16 NOT COMPLETED DUE TO UTILITY CONFLICTS.

0 15 30
SCALE IN FEET

SOURCE: SWINERTON BUILDERS DRONE AERIAL DATED AUGUST 31, 2015

TITLE:
DATA AND PROPOSED SOIL EXCAVATION AREAS FORMER ROCKRIDGE CLEANERS

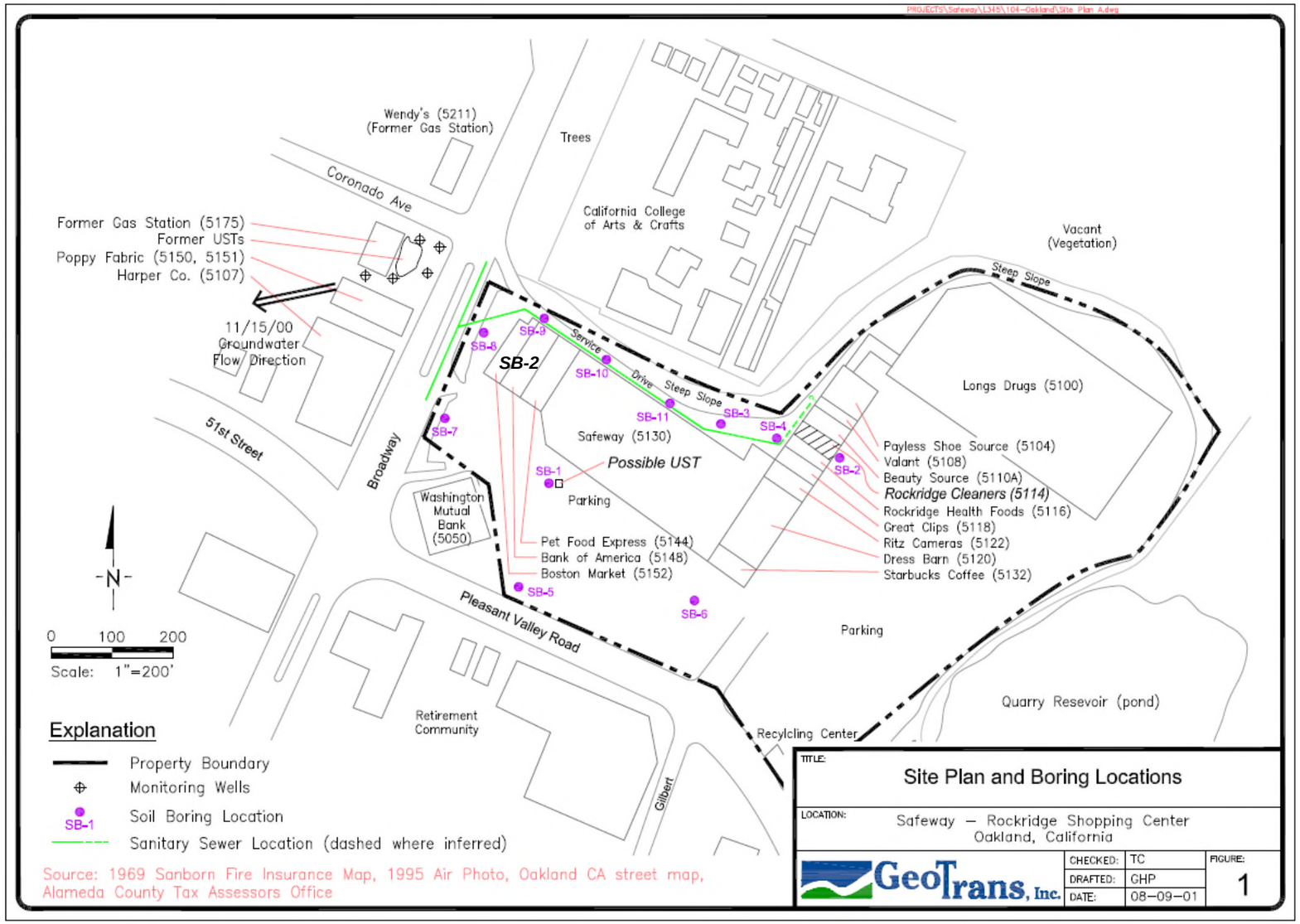
LOCATION:
5114 Broadway
Oakland, California

TETRA TECH

APPROVED	TC
DRAFTED	CP
PROJECT#	117-7429001
DATE	10-8-15

FIGURE 6

TEMPLATE



SOURCE: *Addendum to Screening Level Phase II Environmental Assessment, Rockridge Shopping Center, 5100 Broadway, Oakland, California*, dated August 10, 2001 (GeoTrans, Inc.)

Soil Data

Sample ID	Sample Depth (ft, bgs)	PCE (µg/kg)	Other VOCs (µg/kg)	BTEX (µg/kg)	MTBE (µg/kg)	TPH (mg/kg) Gasoline	TPH (mg/kg) Diesel	TPH (mg/kg) Motor oil	Total Depth (ft, bgs)	DTW (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)	---	---	---		

Groundwater Data

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

TITLE:
2001 Soil Boring Locations and Analytical Results

LOCATION:
Rockridge Shopping Center
5100 Broadway
Oakland, California

TETRA TECH

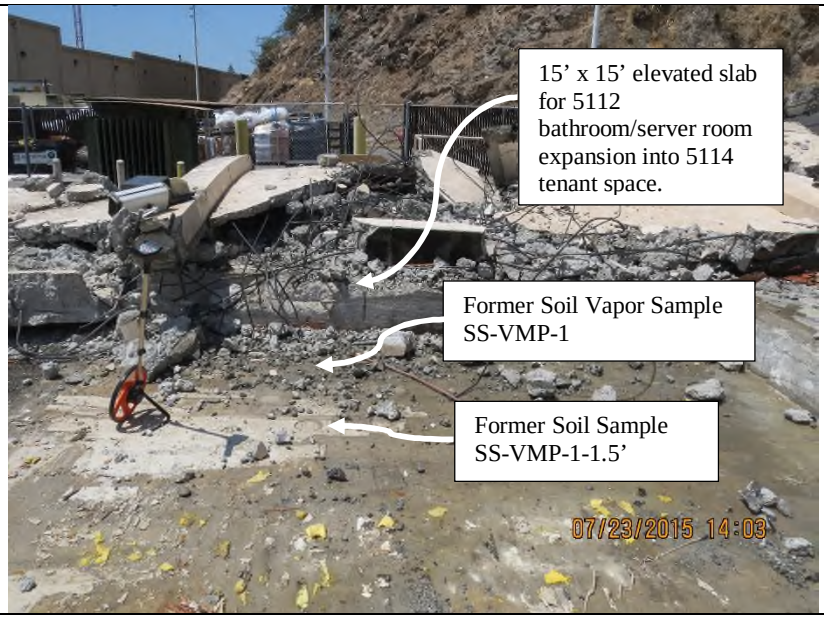
CHECKED: TRC
DRAFTED: KDH
FILE: 117-4704123.01
DATE: 06-06-144

FIGURE: 7

P:\PROJECTS\Safeway\117-4704123.01 (5050-5100 Broadway Oakland)\Phase II ESA Report\Figure 3.ppt

APPENDIX A
Photographic Log – Building 5 Demolition and Field Work

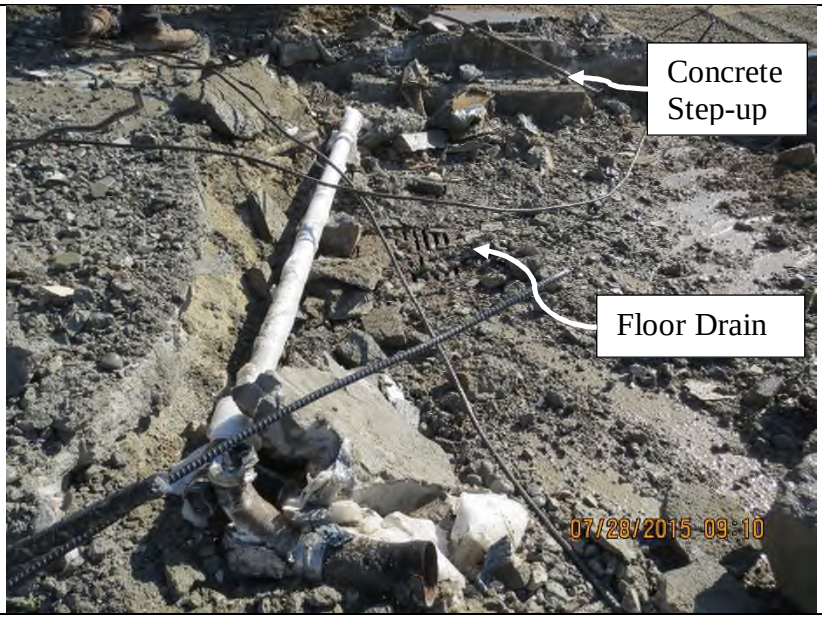
Photographic Documentation
Building Demolition and Soil Boring and Vapor Monitoring Probe Installation
Former Rockridge Dry Cleaner – 5100 Broadway
(5114 tenant space area)
Oakland California
Project No.: 117-7429001.06

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	

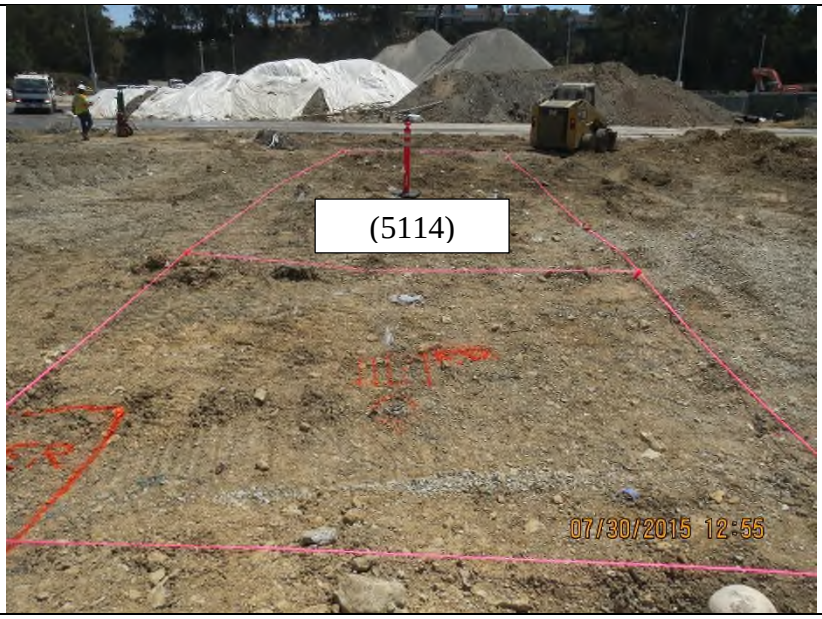
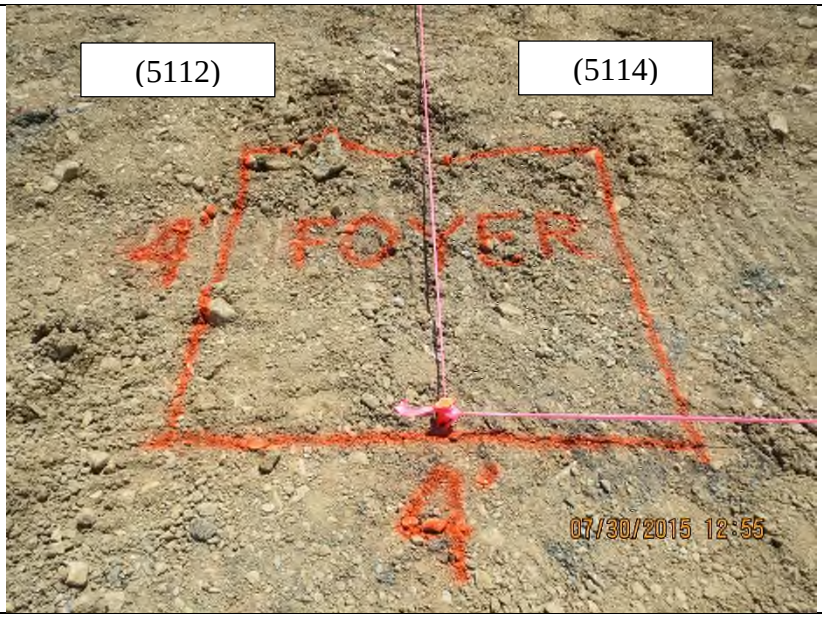
Photographic Documentation
Building Demolition and Soil Boring and Vapor Monitoring Probe Installation
Former Rockridge Dry Cleaner – 5100 Broadway
(5114 tenant space area)
Oakland California
Project No.: 117-7429001.06

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.	

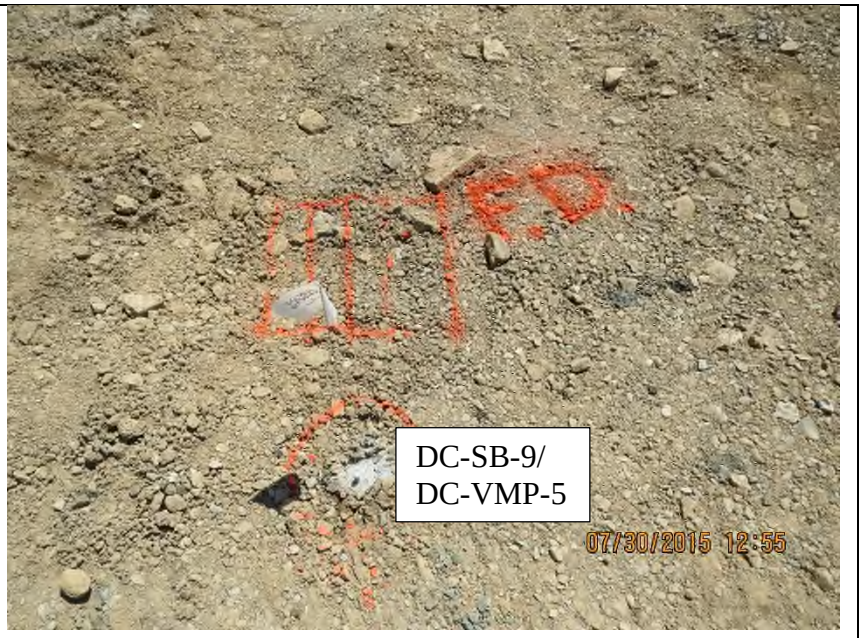
Photographic Documentation
Building Demolition and Soil Boring and Vapor Monitoring Probe Installation
Former Rockridge Dry Cleaner – 5100 Broadway
(5114 tenant space area)
Oakland California
Project No.: 117-7429001.06

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:**	

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: 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	

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: 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	

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

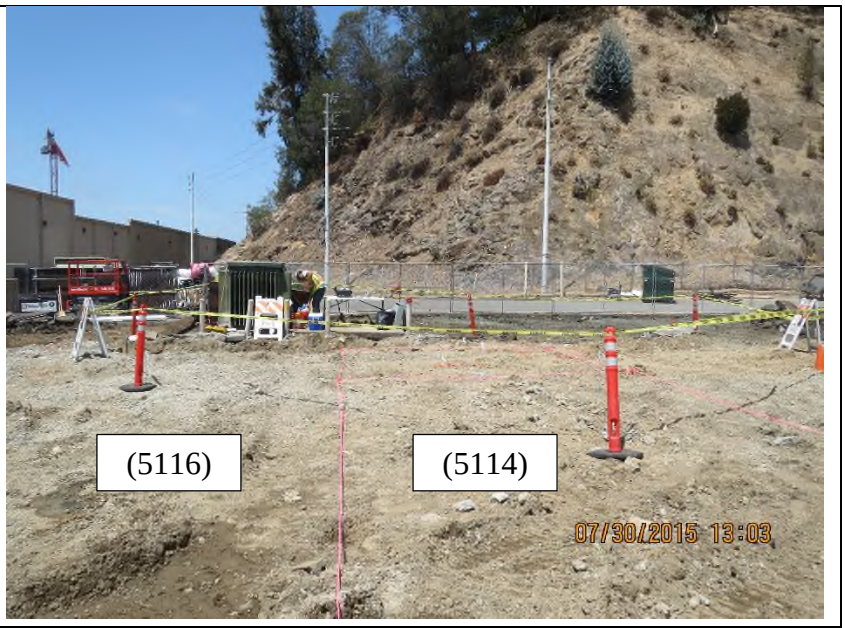
Photo: 11 **Description:** Looking northwest along the length of the former 5114 tenant space in Building 5; former Rockridge Cleaners. **Orientation:** Northwest	
Photo: 12 **Description:** Sample point DC-SB-14/DC-VMP-8. **Orientation:** Northwest	

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: 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	

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: 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	

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: 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

Alameda County Public Works Agency - Water Resources Well Permit

Public Works Agency
Alameda County

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

Application Approved on: 07/27/2015 By jamesy

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

Application Id:	1437762444589	**City of Project Site:**	Oakland
Site Location:	5100 Broadway (Construction area of Rockridge Shopping Center)		
Project Start Date:	07/30/2015	**Completion Date:**	07/31/2015
Assigned Inspector:	Contact Lindsay Furuyama at (925) 956-2311 or Lfuruyama@groundzonees.com		
Applicant:	Tetra Tech Inc - Keith McIntyre 2969 Prospect Park Drive, Suite 100, Rancho Cordova, CA 95670	**Phone:**	916-853-4566
Property Owner:	Terramar Retail Centers Rick Henderson 5918 Stoneridge Mall Road, Pleasanton, CA 94588	**Phone:**	925-738-1232
Client:	** same as Property Owner **		
Contact:	Keith Hoofard	**Phone:** **Cell:**	916-853-4523 916-709-4732

	Total Due:	$530.00
Receipt Number: WR2015-0366	**Total Amount Paid:**	$530.00
Payer Name : Keith E McIntyre	Paid By: VISA	**PAID IN FULL**

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**

Specifications

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

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**

Specifications

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

Specific Work Permit Conditions

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

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

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

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

4. Applicant shall contact 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.

7. 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.

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.

Alameda County Public Works Agency - Water Resources Well Permit

Public Works Agency
Alameda County

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

Application Approved on: 09/02/2015 By jamesy

Permit Numbers: W2015-0823
Permits Valid from 09/08/2015 to 09/10/2015

Application Id:	1441041568220	**City of Project Site:**	Oakland
Site Location:	5100 Broadway (former 5114 tenant space)		
Project Start Date:	09/08/2015	**Completion Date:**	09/10/2015
Assigned Inspector:	Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org		
Applicant:	Tetra Tech, Inc. - Keith Hoofard 2969 Prospect Park Drive, Suite 100, Rancho Cordova, CA 95670	**Phone:**	916-853-1800 x4523
Property Owner:	Rick Henderson Terramar Retail Centers 5918 Stoneridge Mall Road, Pleasanton, CA 94588	**Phone:**	925-738-1232
Client:	Rick Henderson Terramar Retail Centers 5918 Stoneridge Mall Road, Pleasanton, CA 94588	**Phone:**	925-738-1232
Contact:	Keith Hoofard	**Phone:** **Cell:**	916-853-1800 x4523 916-709-4732

	Total Due:	$265.00
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**

Specifications

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.

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).

Alameda County Public Works Agency - Water Resources Well Permit

Public Works Agency
Alameda County

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

Application Approved on: 09/30/2015 By jamesy

Permit Numbers: W2015-0930
Permits Valid from 10/05/2015 to 10/08/2015

Application Id: 1443028046152 **City of Project Site:** Oakland
Site Location: 5100 Broadway (former 5114 tenant space)
Project Start Date: 10/05/2015 **Completion Date:** 10/08/2015
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

Applicant: Tetra Tech, Inc. - Keith Hoofard **Phone:** 916-853-1800 x4523
2969 Prospect Park Drive, Suite 100, Rancho Cordova, CA 95670
Property Owner: Rick Henderson Terramar Retail Centers **Phone:** 925-738-1232
5918 Stoneridge Mall Road, Pleasanton, CA 94588
Client: Rick Henderson Terramar Retail Centers **Phone:** 925-738-1232
5918 Stoneridge Mall Road, Pleasanton, CA 94588
Contact: Keith Hoofard **Phone:** 916-853-1800 x4523
Cell: 916-709-4732

Total Due: $265.00
Receipt Number: WR2015-0489 **Total Amount Paid:** $265.00
Payer Name : Keith D Hoofard Paid By: VISA **PAID IN FULL**

Works Requesting Permits:

Well Destruction-Vapor monitoring well - 11 Wells
Driller: Gregg Drilling & Testing, Inc. - Lic #: 485165 - Method: over **Work Total: $265.00**

Specifications

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

Specific Work Permit Conditions

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

properly damage, personal injury and wrongful death.

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

3. 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

TETRA TECH

BORING LOG

PROJECT NUMBER 117-7429001.06
PROJECT NAME Terramar - Oakland
LOCATION 5100 Broadway, Oakland (fmr 5114 tenant)
DRILLING METHOD Geoprobe
SAMPLING METHOD 5' Macro Core
DEPTH TO SATURATED SOIL (ft)
LOGGED BY Keith Hoofard

BORING/WELL NUMBER DC-SB-1/DC-VMP-1
DATE DRILLING BEGAN 7/30/2015
DATE DRILLING ENDED 7/30/2015
REMARKS Fill material to total depth

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0			1'			GM		0-5' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
0.0			5'		5			Installed temporary VMP **Casing:** 0-4.75' - 1/4" OD stainless steel rigid tubing **Screen:** 4.75'-5' - 1/2" OD 50 Mesh stainless steel **Annular Material:** 0-4' - Hydrated bentonite (gel) 4'-5' - #2/12 sand (34% porosity) VMP not sampled on 8/4/15 due to water in screen; pulled from ground; gel self-sealed boring.

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Keith Hoofard
Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER 117-7429001.06
PROJECT NAME Terramar - Oakland
LOCATION 5100 Broadway, Oakland (fmr 5114 tenant)
DRILLING METHOD Geoprobe
SAMPLING METHOD 5' Macro Core
DEPTH TO SATURATED SOIL (ft)
LOGGED BY Keith Hoofard

BORING/WELL NUMBER DC-SB-2
DATE DRILLING BEGAN 7/30/2015
DATE DRILLING ENDED 7/30/2015
REMARKS Fill material to total depth

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0			1'			GM		0-5' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
0.0			5'		5			

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Keith Hoofard
Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER 117-7429001.06
PROJECT NAME Terramar - Oakland
LOCATION 5100 Broadway, Oakland (fmr 5114 tenant)
DRILLING METHOD Geoprobe
SAMPLING METHOD 5' Macro Core
DEPTH TO SATURATED SOIL (ft)
LOGGED BY Keith Hoofard

BORING/WELL NUMBER DC-SB-3/DC-VMP-2
DATE DRILLING BEGAN 7/30/2015
DATE DRILLING ENDED 7/30/2015
REMARKS Fill material to total depth

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0			1'			GM		0-5' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
0.0			5'		5			Installed temporary VMP **Casing:** 0-4.75' - 1/4" OD stainless steel rigid tubing **Screen:** 4.75'-5' - 1/2" OD 50 Mesh stainless steel **Annular Material:** 0-4' - Hydrated bentonite (gel) 4'-5' - #2/12 sand (34% porosity) Sampled VMP on 8/4/15 and pulled from ground; gel self-sealed boring.

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER 117-7429001.06
PROJECT NAME Terramar - Oakland
LOCATION 5100 Broadway, Oakland (fmr 5114 tenant)
DRILLING METHOD Geoprobe
SAMPLING METHOD 5' Macro Core
DEPTH TO SATURATED SOIL (ft)
LOGGED BY Keith Hoofard

BORING/WELL NUMBER DC-SB-4
DATE DRILLING BEGAN 7/30/2015
DATE DRILLING ENDED 7/30/2015
REMARKS Fill material to total depth

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0			1'			GM		0-5' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
0.0			5'		5			

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER	117-7429001.06	**BORING/WELL NUMBER**	DC-SB-5/DC-VMP-3
PROJECT NAME	Terramar - Oakland	**DATE DRILLING BEGAN**	7/30/2015
LOCATION	5100 Broadway, Oakland (fmr 5114 tenant)	**DATE DRILLING ENDED**	7/30/2015
DRILLING METHOD	Geoprobe	**REMARKS**	Fill material to total depth
SAMPLING METHOD	5' Macro Core		
DEPTH TO SATURATED SOIL (ft)			
LOGGED BY	Keith Hoofard		

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0			1'			GM		0-5' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
0.0			5'		5			Installed temporary VMP **Casing:** 0-4.75' - 1/4" OD stainless steel rigid tubing **Screen:** 4.75'-5' - 1/2" OD 50 Mesh stainless steel **Annular Material:** 0-4' - Hydrated bentonite (gel) 4'-5' - #2/12 sand (34% porosity) Sampled VMP on 8/4/15 and pulled from ground; gel self-sealed boring.

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Keith Hoofard
Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER 117-7429001.06
PROJECT NAME Terramar - Oakland
LOCATION 5100 Broadway, Oakland (fmr 5114 tenant)
DRILLING METHOD Geoprobe
SAMPLING METHOD 5' Macro Core
DEPTH TO SATURATED SOIL (ft)
LOGGED BY Keith Hoofard

BORING/WELL NUMBER DC-SB-6
DATE DRILLING BEGAN 7/30/2015
DATE DRILLING ENDED 7/30/2015
REMARKS Fill material to total depth

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0			1'			GM		0-5' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
0.0			5'		5			

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER 117-7429001.06
PROJECT NAME Terramar - Oakland
LOCATION 5100 Broadway, Oakland (fmr 5114 tenant)
DRILLING METHOD Geoprobe
SAMPLING METHOD 5' Macro Core
DEPTH TO SATURATED SOIL (ft)
LOGGED BY Keith Hoofard

BORING/WELL NUMBER DC-SB-7
DATE DRILLING BEGAN 7/30/2015
DATE DRILLING ENDED 7/30/2015
REMARKS Fill material to total depth

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0			1'			GM		0-5' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
0.0			5'		5			

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER 117-7429001.06
PROJECT NAME Terramar - Oakland
LOCATION 5100 Broadway, Oakland (fmr 5114 tenant)
DRILLING METHOD Geoprobe
SAMPLING METHOD 5' Macro Core
DEPTH TO SATURATED SOIL (ft)
LOGGED BY Keith Hoofard

BORING/WELL NUMBER DC-SB-8/DC-VMP-4
DATE DRILLING BEGAN 7/30/2015
DATE DRILLING ENDED 7/30/2015
REMARKS Fill material to total depth

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.4			1'			GM		0-5' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
0.0			5'		5			Installed temporary VMP **Casing:** 0-4.75' - 1/4" OD stainless steel rigid tubing **Screen:** 4.75'-5' - 1/2" OD 50 Mesh stainless steel **Annular Material:** 0-4' - Hydrated bentonite (gel) 4'-5' - #2/12 sand (34% porosity) Sampled VMP on 8/4/15 and pulled from ground; gel self-sealed boring.

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER 117-7429001.06
PROJECT NAME Terramar - Oakland
LOCATION 5100 Broadway, Oakland (fmr 5114 tenant)
DRILLING METHOD Geoprobe
SAMPLING METHOD 5' Macro Core
DEPTH TO SATURATED SOIL (ft)
LOGGED BY Keith Hoofard

BORING/WELL NUMBER DC-SB-9/DC-VMP-5
DATE DRILLING BEGAN 7/30/2015
DATE DRILLING ENDED 7/30/2015
REMARKS Fill material to total depth

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0			1'			GM		0-5' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
0.0			5'		5			Installed temporary VMP **Casing:** 0-4.75' - 1/4" OD stainless steel rigid tubing **Screen:** 4.75'-5' - 1/2" OD 50 Mesh stainless steel **Annular Material:** 0-4' - Hydrated bentonite (gel) 4'-5' - #2/12 sand (34% porosity) Sampled VMP on 8/4/15 and pulled from ground; gel self-sealed boring.

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER 117-7429001.06
PROJECT NAME Terramar - Oakland
LOCATION 5100 Broadway, Oakland (fmr 5114 tenant)
DRILLING METHOD Geoprobe
SAMPLING METHOD 5' Macro Core
DEPTH TO SATURATED SOIL (ft)
LOGGED BY Keith Hoofard

BORING/WELL NUMBER DC-SB-10/DC-VMP-6
DATE DRILLING BEGAN 7/30/2015
DATE DRILLING ENDED 7/30/2015
REMARKS Fill material to total depth

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.2			1'			GM		0-5' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
0.0			5'		5			Installed temporary VMP **Casing:** 0-4.75' - 1/4" OD stainless steel rigid tubing **Screen:** 4.75'-5' - 1/2" OD 50 Mesh stainless steel **Annular Material:** 0-4' - Hydrated bentonite (gel) 4'-5' - #2/12 sand (34% porosity) Sampled VMP on 8/4/15 and pulled from ground; gel self-sealed boring.

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Keith Hoofard
Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER	117-7429001.06	**BORING/WELL NUMBER**	DC-SB-11/DC-VMP-7
PROJECT NAME	Terramar - Oakland	**DATE DRILLING BEGAN**	7/30/2015
LOCATION	5100 Broadway, Oakland (fmr 5114 tenant)	**DATE DRILLING ENDED**	7/30/2015
DRILLING METHOD	Geoprobe	**REMARKS**	Fill material to total depth
SAMPLING METHOD	5' Macro Core		
DEPTH TO SATURATED SOIL (ft)			
LOGGED BY	Keith Hoofard		

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0			1'			GM		0-5' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
0.2			5'		5			Installed temporary VMP **Casing:** 0-4.75' - 1/4" OD stainless steel rigid tubing **Screen:** 4.75'-5' - 1/2" OD 50 Mesh stainless steel **Annular Material:** 0-4' - Hydrated bentonite (gel) 4'-5' - #2/12 sand (34% porosity) Sampled VMP on 8/4/15 and pulled from ground; gel self-sealed boring.

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Keith Hoofard

Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER 117-7429001.06
PROJECT NAME Terramar - Oakland
LOCATION 5100 Broadway, Oakland (fmr 5114 tenant)
DRILLING METHOD Geoprobe
SAMPLING METHOD 5' Macro Core
DEPTH TO SATURATED SOIL (ft)
LOGGED BY Keith Hoofard

BORING/WELL NUMBER DC-SB-12
DATE DRILLING BEGAN 7/30/2015
DATE DRILLING ENDED 7/30/2015
REMARKS Fill material to total depth

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0			1'			GM		0-5' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
0.0			5'		5			

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Keith Hoofard
Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER	117-7429001.06	**BORING/WELL NUMBER**	DC-SB-13
PROJECT NAME	Terramar - Oakland	**DATE DRILLING BEGAN**	7/30/2015
LOCATION	5100 Broadway, Oakland (fmr 5114 tenant)	**DATE DRILLING ENDED**	7/30/2015
DRILLING METHOD	Geoprobe	**REMARKS**	Fill material to total depth
SAMPLING METHOD	5' Macro Core		
DEPTH TO SATURATED SOIL (ft)			
LOGGED BY	Keith Hoofard		

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0			1'			GM		0-5' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
0.0			5'		5			

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Keith Hoofard
Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER	117-7429001.06	**BORING/WELL NUMBER**	DC-SB-14/DC-VMP-8
PROJECT NAME	Terramar - Oakland	**DATE DRILLING BEGAN**	7/30/2015
LOCATION	5100 Broadway, Oakland (fmr 5114 tenant)	**DATE DRILLING ENDED**	7/30/2015
DRILLING METHOD	Geoprobe	**REMARKS**	Fill material to total depth
SAMPLING METHOD	5' Macro Core		
DEPTH TO SATURATED SOIL (ft)			
LOGGED BY	Keith Hoofard		

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0			1'			GM		0-5' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
0.0			5'		5			Installed temporary VMP **Casing:** 0-4.75' - 1/4" OD stainless steel rigid tubing **Screen:** 4.75'-5' - 1/2" OD 50 Mesh stainless steel **Annular Material:** 0-4' - Hydrated bentonite (gel) 4'-5' - #2/12 sand (34% porosity) Sampled VMP on 8/4/15 and pulled from ground; gel self-sealed boring.

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Keith Hoofard

Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER	117-7429001.06	**BORING/WELL NUMBER**	DC-SB-15/DC-VMP-9
PROJECT NAME	Terramar - Oakland	**DATE DRILLING BEGAN**	9/8/2015
LOCATION	5100 Broadway, Oakland (fmr 5114 tenant)	**DATE DRILLING ENDED**	9/8/2015
DRILLING METHOD	Auger	**REMARKS**	Fill material to total depth
SAMPLING METHOD	Split Spoon		
DEPTH TO SATURATED SOIL (ft)	18		
LOGGED BY	Keith Hoofard		

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0					5	GM		0-11' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
					10			
			12'			ML		11-18' **CLAYEY SILT (ML):** Dark greenish gray (3/5GY); firm; slightly moist; slight plasticity.
1.5					15			
0.0			17'		▽			
						GM		18-20' **SANDY GRAVEL (GM):** Dark greenish gray (3/5GY); fine to coarse, angular sand; fine to coarse, angular gravel; saturated.
0.0					20			Installed temporary dual-completion VMPs **Casing:** 0-4.75' - 1/4" OD stainless steel rigid tubing 0'-13.75' - 1/4" OD stainless steel rigid tubing **Screen:** 4.75'-5' - 1/2" OD 50 Mesh stainless steel 13.75'-14' - 1/2" OD 50 Mesh stainless steel **Annular Material:** 0-4' - Neat cement w/ 5% bentonite 4'-5' - #2/12 sand (34% porosity) 5'-13' - hydrated bentonite (gel) 13'-14' - #2/12 sand (34% porosity) 14'-20' - hydrated bentonite (chips) Sampled VMPs on 9/15/15; abandoned by overdrilling and backgrouting on 10/6/15.

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Keith Hoofard

Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER	117-7429001.06	**BORING/WELL NUMBER**	DC-SB-16/DC-VMP-10
PROJECT NAME	Terramar - Oakland	**DATE DRILLING BEGAN**	9/8/2015
LOCATION	5100 Broadway, Oakland (fmr 5114 tenant)	**DATE DRILLING ENDED**	9/8/2015
DRILLING METHOD	Auger	**REMARKS**	Fill material to total depth
SAMPLING METHOD	Split Spoon		
DEPTH TO SATURATED SOIL (ft)	16		
LOGGED BY	Keith Hoofard		

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0					5	GM		0-8' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
0.0			8'		10	ML		8-13' **CLAYEY SILT (ML):** Dark greenish grayy (3/5GY); firm; slightly moist; slight to low plasticity.
0.0			13'		15	CL		13-18.5' **SILTY CLAY (CL):** Dark greenish grayy (3/5GY); stiff to firm; moist; low plasticity. **At 17':** Roots in saturated soupy material; wood; bark.
0.0			15'					
0.0					20	GM		18.5-20' **SILTY SANDY GRAVEL (GM):** Fine to coarse, angular gravel; angular cobbles; fine to coarse, angular to sub-angular sand; moist to very moist.

Installed temporary dual-completion VMPs

Casing:
0-4.75' - 1/4" OD stainless steel rigid tubing
0'-12.75' - 1/4" OD stainless steel rigid tubing

Screen:
4.75'-5' - 1/2" OD 50 Mesh stainless steel
12.75'-13' - 1/2" OD 50 Mesh stainless steel

Annular Material:
0-4' - Neat cement w/ 5% bentonite
4'-5' - #2/12 sand (34% porosity)
5'-12' - hydrated bentonite (gel)
12'-13' - #2/12 sand (34% porosity)
13'-20' - hydrated bentonite (chips)

Sampled shallow VMP on 9/15/15 (deep not sampled due to water in screen); abandoned by overdrilling and backgrouting on 10/6/15.

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER	117-7429001.06	**BORING/WELL NUMBER**	DC-SB-17/DC-VMP-11
PROJECT NAME	Terramar - Oakland	**DATE DRILLING BEGAN**	9/8/2015
LOCATION	5100 Broadway, Oakland (fmr 5114 tenant)	**DATE DRILLING ENDED**	9/8/2015
DRILLING METHOD	Auger	**REMARKS**	Fill material to total depth
SAMPLING METHOD	Split Spoon		
DEPTH TO SATURATED SOIL (ft)	16		
LOGGED BY	Keith Hoofard		

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0					5	GM		0-11.5' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
0.0					10			
0.0			12'			ML		11.5-15 **CLAYEY SILT (ML):** Slightly moist; slight plasticity.
0.0			15'		15 ▽	CL		15-20' **SILTY CLAY (CL):** Dark greenish gray (3/5GY); slightly moist; medium to low plasticity; no odor. **From 16-17':** Saturated zone w/wood pieces; soupy. **At 17.5':** Water. **At 20':** Organic material; saturated; minor angular gravels; fine.
0.0					20	GC		20-25' **CLAYEY SANDY GRAVEL (GC):** Dark greenish gray (3/5GY); fine to coarse, angular gravel; fine to coarse, angular to sub-angular sand; loose to dense; saturated.
					25			Installed temporary dual-completion VMPs **Casing:** 0-4.75' - 1/4" OD stainless steel rigid tubing 0'-12.75' - 1/4" OD stainless steel rigid tubing **Screen:** 4.75'-5' - 1/2" OD 50 Mesh stainless steel 12.75'-13' - 1/2" OD 50 Mesh stainless steel **Annular Material:** 0-4' - Neat cement w/ 5% bentonite 4'-5' - #2/12 sand (34% porosity) 5'-12' - hydrated bentonite (gel) 12'-13' - #2/12 sand (34% porosity) 13'-25' - hydrated bentonite (chips) Sampled VMPs on 9/15/15; abandoned by overdrilling and backgrouting on 10/6/15.

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Keith Hoofard

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TETRA TECH

BORING LOG

PROJECT NUMBER	117-7429001.06	**BORING/WELL NUMBER**	DC-SB-18/DC-VMP-12
PROJECT NAME	Terramar - Oakland	**DATE DRILLING BEGAN**	9/9/2015
LOCATION	5100 Broadway, Oakland (fmr 5114 tenant)	**DATE DRILLING ENDED**	9/9/2015
DRILLING METHOD	Auger	**REMARKS**	Fill material to total depth
SAMPLING METHOD	Split Spoon		
DEPTH TO SATURATED SOIL (ft)	19		
LOGGED BY	Keith Hoofard		

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0					5	GM		0-11' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
0.0			11.5'		10	ML		11-17' **CLAYEY SILT W/ RED BRICK FRAGMENTS (ML):** Greenish black (2.5Y/10G); soft to firm; slightly moist to moist; low plasticity to slight plasticity. **At 13':** Dark greenish gray (4/5GY).
0.6					15			
2.3			17'			CL		17-19' **SILTY CLAY W/ WOOD FRAGMENTS (CL):** Dark greenish gray (3/5GY); soft; moist; low plasticity.
					20	GC		19-22' **CLAYEY SANDY GRAVEL (GC):** Fine to coarse sub-angular to angular sand; fine to coarse angular gravels; wood fragments; saturated.
						ML		22-23' **CLAYEY SILT W/ WOOD FRAGMENTS (CL):** Dark greenish gray (3/5GY); stiff; saturated; low plasticity.
						OL		23-25' **ORGANIC MATERIAL (OL):** Black; wood; decomposing material.
0.0					25			Installed temporary dual-completion VMPs **Casing:** 0-4.75' - 1/4" OD stainless steel rigid tubing 0'-13.75' - 1/4" OD stainless steel rigid tubing **Screen:** 4.75'-5' - 1/2" OD 50 Mesh stainless steel 13.75'-14' - 1/2" OD 50 Mesh stainless steel **Annular Material:** 0-4' - Neat cement w/ 5% bentonite 4'-5' - #2/12 sand (34% porosity) 5'-13' - hydrated bentonite (gel) 13'-14' - #2/12 sand (34% porosity) 14'-25' - hydrated bentonite (chips) Sampled shallow VMP on 9/15/15 (deep not sampled due to water in screen); abandoned by overdrilling and backgrouting on 10/6/15.

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Keith Hoofard
Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER	117-7429001.06	**BORING/WELL NUMBER**	DC-SB-19/DC-VMP-13
PROJECT NAME	Terramar - Oakland	**DATE DRILLING BEGAN**	9/9/2015
LOCATION	5100 Broadway, Oakland (fmr 5114 tenant)	**DATE DRILLING ENDED**	9/9/2015
DRILLING METHOD	Auger	**REMARKS**	Fill material to total depth
SAMPLING METHOD	Split Spoon		
DEPTH TO SATURATED SOIL (ft)			
LOGGED BY	Keith Hoofard		

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
								0-8" **ASPHALT**
						GM		8"-4' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
								4-5' **BEDROCK:**
0.0					5			Installed temporary VMP **Casing:** 0-4.75' - 1/4" OD stainless steel rigid tubing **Screen:** 4.75'-5' - 1/2" OD 50 Mesh stainless steel **Annular Material:** 0-4' - Neat cement w/ 5% bentonite 4'-5' - #2/12 sand (34% porosity) Sampled VMP on 9/15/15; abandoned by overdrilling and backgrouting on 10/6/15.

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Keith Hoofard

Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER	117-7429001.06	**BORING/WELL NUMBER**	DC-SB-20/DC-VMP-14
PROJECT NAME	Terramar - Oakland	**DATE DRILLING BEGAN**	9/9/2015
LOCATION	5100 Broadway, Oakland (fmr 5114 tenant)	**DATE DRILLING ENDED**	9/9/2015
DRILLING METHOD	Auger	**REMARKS**	Fill material to total depth
SAMPLING METHOD	Split Spoon		
DEPTH TO SATURATED SOIL (ft)	20		
LOGGED BY	Keith Hoofard		

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
								0-8" **ASPHALT**
					5	GM		8"-6' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
0.0			6'			SM		6-9' **SILTY SAND W/ MINOR GRAVELS (SM):** Greenish gray (5/5GY); fine sub-angular gravel; fine to coarse sub-angular sand; dense; slightly moist.
0.0			10'		10	ML		9-16' **CLAYEY SILT (ML)** Greenish black (2.5/5GY); red brick fragments and organics; slightly moist; slight plasticity.
0.0					15 ▼			
5.3			17'			CL		16-21' **SILTY CLAY (CL):** Greenish black; brick fragments and organics; firm; moist; low plasticity. **At 17':** Increasing organics. **At 18':** Wood present in split spoon (no soil); moist to very moist.
					20 ▼			
						GC		21-23' **GRAVEL W/ CLAY (GC):** Mixture of muddy debris; saturated. **At 22':** Loose to dense.

Installed temporary dual-completion VMPs

Casing:
0-4.75' - 1/4" OD stainless steel rigid tubing
0'-13.75' - 1/4" OD stainless steel rigid tubing

Screen:
4.75'-5' - 1/2" OD 50 Mesh stainless steel
13.75'-14' - 1/2" OD 50 Mesh stainless steel

Annular Material:
0-4' - Neat cement w/ 5% bentonite
4'-5' - #2/12 sand (34% porosity)
5'-13' - hydrated bentonite (gel)
13'-14' - #2/12 sand (34% porosity)
14'-23' - hydrated bentonite (chips)

Sampled VMPs on 9/15/15; abandoned by overdrilling and backgrouting on 10/6/15.

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/28/15

Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER	117-7429001.06	**BORING/WELL NUMBER**	DC-SB-21/DC-VMP-15
PROJECT NAME	Terramar - Oakland	**DATE DRILLING BEGAN**	9/9/2015
LOCATION	5100 Broadway, Oakland (fmr 5114 tenant)	**DATE DRILLING ENDED**	9/9/2015
DRILLING METHOD	Auger	**REMARKS**	Fill material to total depth
SAMPLING METHOD	Split Spoon		
DEPTH TO SATURATED SOIL (ft)	17.5		
LOGGED BY	Keith Hoofard		

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0					5	GM		0-6.5' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
0.8			7'		10	ML		6.5-13' **CLAYEY SILT (ML):** Greenish gray; soft to firm; moist; slight plasticity. **At 8':** Picking up minor, coarse gravel. **At 10':** Increasing clay.
0.0			13.5		15	CL		13-17' **SILTY CLAY (CL):** Dark greenish gray (3/5GY); Minor coarse, sub-angular red gravels; soft; slightly moist. **At 14.5':** Broken glass and ceramics showing. **At 16.5':** Increasing clay; coarse, angular gravel.
0.0			17'			GC		17-19' **CLAYEY SANDY GRAVEL (GC):** Dark greenish gray (3/5GY); fine to coarse, angular gravels; fine to coarse, angular sands; dense; saturated.
0.0					20			19-20' **BEDROCK:** bent split spoon; saturated.

Installed temporary dual-completion VMPs

Casing:
0-4.75' - 1/4" OD stainless steel rigid tubing
0'-12.75' - 1/4" OD stainless steel rigid tubing

Screen:
4.75'-5' - 1/2" OD 50 Mesh stainless steel
12.75'-13' - 1/2" OD 50 Mesh stainless steel

Annular Material:
0-4' - Neat cement w/ 5% bentonite
4'-5' - #2/12 sand (34% porosity)
5'-12' - hydrated bentonite (gel)
12'-13' - #2/12 sand (34% porosity)
13'-20' - hydrated bentonite (chips)

Sampled VMPs on 9/15/15; abandoned by overdrilling and backgrouting on 10/6/15.

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Keith Hoofard
Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER 117-7429001.06
PROJECT NAME Terramar - Oakland
LOCATION 5100 Broadway, Oakland (fmr 5114 tenant)
DRILLING METHOD Auger
SAMPLING METHOD Split Spoon
DEPTH TO SATURATED SOIL (ft)
LOGGED BY Keith Hoofard

BORING/WELL NUMBER DC-SB-22/DC-VMP-16
DATE DRILLING BEGAN 9/9/2015
DATE DRILLING ENDED 9/9/2015
REMARKS Fill material to total depth

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0			NS			GM		0-3' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
								Boring not completed due to utility conflicts.

5
10
15
20
25

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER	117-7429001.06	**BORING/WELL NUMBER**	DC-SB-23/DC-VMP-17
PROJECT NAME	Terramar - Oakland	**DATE DRILLING BEGAN**	9/10/2015
LOCATION	5100 Broadway, Oakland (fmr 5114 tenant)	**DATE DRILLING ENDED**	9/10/2015
DRILLING METHOD	Auger	**REMARKS**	Fill material to total depth
SAMPLING METHOD	Split Spoon		
DEPTH TO SATURATED SOIL (ft)	23.9		
LOGGED BY	Keith Hoofard		

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0					5	GM		0-7' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
0.9			7.5'			ML		7-8' **CLAYEY SILT (ML):** Dark greenish gray (3/5GY); firm; slightly moist; slight plasticity to non-plastic.
0.0					10	GC		8-10.5' **CLAYEY SANDY GRAVEL (GC):** Dark greenish gray (3/5GY); fine to coarse, angular sand; fine to coarse, angular gravel; dense; moist to saturated.
						CL		10.5-14' **GRAVELLY CLAY (CL):** Dark greenish gray (3/5GY); soft to firm; fine, angular gravels; moist; low plasticity.
0.0			14.5'		15	ML		14-16' **CLAYEY SILT W/ GRAVEL (ML):** Dark greenish gray (3/5GY); angular gravel; firm; moist; non-plastic to slight plasticity.
						GC		16-19' **CLAYEY SAND GRAVEL (GC):** Dark greenish gray (3/5GY); fine to coarse, angular sand; fine to coarse angular gravels; loose.
					20	SC		19-25' **CLAYEY SAND (SC):** Dark greenish gray (3/5GY); fine to medium, angular sand; soft; saturated. **At 19.5':** Black, decomposing material; putrid odor.
					25			Installed temporary dual-completion VMPs **Casing:** 0-4.75' - 1/4" OD stainless steel rigid tubing 0'-12.75' - 1/4" OD stainless steel rigid tubing **Screen:** 4.75'-5' - 1/2" OD 50 Mesh stainless steel 12.75'-13' - 1/2" OD 50 Mesh stainless steel **Annular Material:** 0-4' - Neat cement w/ 5% bentonite 4'-5' - #2/12 sand (34% porosity) 5'-12' - hydrated bentonite (gel) 12'-13' - #2/12 sand (34% porosity) 13'-25' - hydrated bentonite (chips) Sampled VMPs on 9/15/15; abandoned by overdrilling and backgrouting on 10/6/15.

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Keith Hoofard
Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER	117-7429001.06	**BORING/WELL NUMBER**	DC-SB-24/DC-VMP-18
PROJECT NAME	Terramar - Oakland	**DATE DRILLING BEGAN**	9/10/2015
LOCATION	5100 Broadway, Oakland (fmr 5114 tenant)	**DATE DRILLING ENDED**	9/10/2015
DRILLING METHOD	Auger	**REMARKS**	Fill material to total depth
SAMPLING METHOD	Split Spoon		
DEPTH TO SATURATED SOIL (ft)	23.3		
LOGGED BY	Keith Hoofard		

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0					5	GM		0-9' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
1.1			9.5'		10	ML		9-18' **CLAYEY SILT (ML):** Dark greenish gray (3/5GY); slightly moist; firm; slight plasticity to non plasticity.
0.5			13.5		15 ▼			
			17'			GC		18-19' **CLAYEY SANDY GRAVEL (GC):** Red; sub-angular gravels.
0.4					20	SC		19-25' **CLAYEY SAND (SC):** Dark greenish gray (3/5GY); fine to medium, angular sand; soft; saturated.
					25 ▽			Installed temporary dual-completion VMPs **Casing:** 0-4.75' - 1/4" OD stainless steel rigid tubing 0'-12.75' - 1/4" OD stainless steel rigid tubing **Screen:** 4.75'-5' - 1/2" OD 50 Mesh stainless steel 12.75'-13' - 1/2" OD 50 Mesh stainless steel **Annular Material:** 0-4' - Neat cement w/ 5% bentonite 4'-5' - #2/12 sand (34% porosity) 5'-12' - hydrated bentonite (gel) 12'-13' - #2/12 sand (34% porosity) 13'-25' - hydrated bentonite (chips) Sampled VMPs on 9/15/15; abandoned by overdrilling and backgrouting on 10/6/15.

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Keith Hoofard

Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER 117-7429001.06
PROJECT NAME Terramar - Oakland
LOCATION 5100 Broadway, Oakland (fmr 5114 tenant)
DRILLING METHOD Auger
SAMPLING METHOD Split Spoon
DEPTH TO SATURATED SOIL (ft) 23.5
LOGGED BY Keith Hoofard

BORING/WELL NUMBER DC-SB-25/DC-VMP-19
DATE DRILLING BEGAN 9/10/2015
DATE DRILLING ENDED 9/10/2015
REMARKS Fill material to total depth

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0					5	GM		0-9' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
9.4			9'		10	ML		9-11' **CLAYEY SILT (ML):** Dark greenish gray (3/5GY); fine sand; dense; slightly moist.
0.0			11.5'			SM		11-12.5' **SILTY SAND (SM):** Greenish gray (5/5G); loose; fine to medium sand; slightly moist.
						CL		12.5-13.5' **SILTY CLAY (CL):** Dark greenish gray (3/5GY); slightly moist; low plasticity.
0.0					15	ML		13.5-16' **CLAYEY SILT (ML):** Black; minor angular gravel; slightly moist to moist; slight plasticity to non-plastic.
0.0			16.5			CL		16-18.5' **SILTY CLAY (CL):** Dark greenish gray (3/5GY); firm; slightly moist; low plasticity.
0.0			19'		20	ML		18.5-25' **CLAYEY SILT (ML):** Black; soft; moist.
					25			Installed temporary dual-completion VMPs **Casing:** 0-4.75' - 1/4" OD stainless steel rigid tubing 0'-10.75' - 1/4" OD stainless steel rigid tubing **Screen:** 4.75'-5' - 1/2" OD 50 Mesh stainless steel 10.75'-11' - 1/2" OD 50 Mesh stainless steel **Annular Material:** 0-4' - Neat cement w/ 5% bentonite 4'-5' - #2/12 sand (34% porosity) 5'-10' - hydrated bentonite (gel) 10'-11' - #2/12 sand (34% porosity) 11'-25' - hydrated bentonite (chips) Sampled VMPs on 9/15/15; abandoned by overdrilling and backgrouting on 10/6/15.

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/27/15

Keith Hoofard
Name of Geologist

Name of Reviewer

TETRA TECH

BORING LOG

PROJECT NUMBER	117-7429001.06	**BORING/WELL NUMBER**	DC-SB-26/DC-VMP-20
PROJECT NAME	Terramar - Oakland	**DATE DRILLING BEGAN**	9/10/2015
LOCATION	5100 Broadway, Oakland (fmr 5114 tenant)	**DATE DRILLING ENDED**	9/10/2015
DRILLING METHOD	Auger	**REMARKS**	Fill material to total depth
SAMPLING METHOD	Split Spoon		
DEPTH TO SATURATED SOIL (ft)	18		
LOGGED BY	Keith Hoofard		

PID (ppm)	BLOW COUNTS	RECOVERY (ft)	SAMPLE ID.	SAMPLE DEPTH	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (Percent Gravel, Sand, Silt, Clay)
0.0					5	GM		0-9' **SILTY SANDY GRAVEL/COBBLES (GM):** Brown (7.5YR 4/3); fine to coarse, angular gravel; sub-angular cobbles; fine to coarse, angular to sub-angular sand; dense to hard; slightly moist.
0.0			9.5'		10	ML		9-14' **CLAYEY SILT (ML):** Greenish gray (5/5GY); firm; moist; slight plasticity.
0.0			14.5'		15	GC		14-17' **CLAYEY SANDY GRAVEL (GC):** Dark greenish gray (3/5GY); fine to coarse gravel; fine to coarse sand; moist.
						GM		17-18' **SILTY GRAVEL (GM):** dry; hard.
						GC		18-19' **CLAYEY SANDY GRAVEL (GC):** Dark greenish gray (3/5GY); loose; saturated.
					20	ML		19-20' **CLAYEY SILT (ML):** Black; slightly moist; low plasticity.
0.0								Installed temporary dual-completion VMPs **Casing:** 0-4.75' - 1/4" OD stainless steel rigid tubing 0'-9.75' - 1/4" OD stainless steel rigid tubing **Screen:** 4.75'-5' - 1/2" OD 50 Mesh stainless steel 9.75'-10' - 1/2" OD 50 Mesh stainless steel **Annular Material:** 0-4' - Neat cement w/ 5% bentonite 4'-5' - #2/12 sand (34% porosity) 5'-9' - hydrated bentonite (gel) 9'-10' - #2/12 sand (34% porosity) 10'-20' - hydrated bentonite (chips) Sampled VMPs on 9/15/15; abandoned by overdrilling and backgrouting on 10/6/15.

TT GEO (NO COORDINATES) TERRAMAR - OAKLAND.GPJ LAEWNN01.GDT 10/28/15

Name of Geologist

Name of Reviewer

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 ¼-inch 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

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

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

August 03, 2015

CLS Work Order #: CYG1470
COC #:

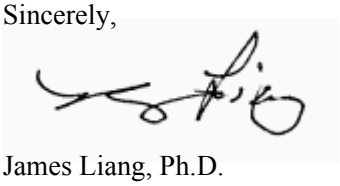
Tim Costello
Tetra Tech EM Inc.
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

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,



James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

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 #:

CALIFORNIA LABORATORY SERVICES CHAIN OF CUSTODY CLS ID. NO. CYG1470 (1 of 3)

Report To: Tetra Tech Inc. 2969 Prospect Park Dr., Rancho Cordova, CA 95670
Project Manager: Tim Costello
Project Name: Terramar – 5100 Broadway
Sampled By: Keith Hoofard/Garrett Kuhl
Job Description: 5100 Broadway – Additional Site Characterization
Site Location: 5100 Broadway Oakland, CA

Client Job Number: 117-7429001.06
Destination Laboratory: ☒ CLS (916) 638-7301, 3249 Fitzgerald Road, Rancho Cordova, CA 95742, www.californialab.com ☐ OTHER

GEOTRACKER
EDF REPORT ☒ YES ☐ NO
GLOBAL ID: T10000007048

FIELD CONDITIONS: SUNNY; 75°F
DC = DRY CLEANER

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	VOCs Full Scan (8260B)	TURNAROUND TIME IN DAYS 1	2	3	5	SPECIAL INSTRUCTIONS
7/30/15	1005	DC-SB-1-1'		SOIL	1	CORE	3	X		X			
	1006	DC-SB-1-5'		SOIL	1	CORE	3	X		X			
	1012	DC-SB-2-1'		SOIL	1	CORE	3	X		X			
	1013	DC-SB-2-5'		SOIL	1	CORE	3	X		X			
	1020	DC-SB-3-1'		SOIL	1	CORE	3	X		X			
	1021	DC-SB-3-5'		SOIL	1	CORE	3	X		X			
	1026	DC-SB-4-1'		SOIL	1	CORE	3	X		X			INVOICE TO:
	1027	DC-SB-4-5'		SOIL	1	CORE	3	X		X			
	1052	DC-SB-5-1'		SOIL	1	CORE	3	X		X			
	1053	DC-SB-5-5'		SOIL	1	CORE	3	X		X			
	1059	DC-SB-6-1'		SOIL	1	CORE	3	X		X			PO#
	1100	DC-SB-6-5'		SOIL	1	CORE	3	X		X			QUOTE#

SUSPECTED CONSTITUENTS
SAMPLE RETENTION TIME
PRESERVATIVES (1) HCL (2) HNO_3 (3) = COLD (4)= H_2SO_4

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
Keith Hoofard	K Hoofard / Tetra Tech	7/30/15 1634		

RECEIVED AT LAB BY: DATE/TIME: 7/30/15 1634 CONDITIONS/COMMENTS: (4/6)

SHIPPED BY: ☐ FED EX ☐ UPS ☒ OTHER HAND DELIVERED AIR BILL #

CALIFORNIA LABORATORY SERVICES

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 #:

CALIFORNIA LABORATORY SERVICES CHAIN OF CUSTODY

CLS ID. NO. CYG1470-2 (2_of_3)

Report To:
Tetra Tech Inc. 2969 Prospect Park Dr
Rancho Cordova, CA 95670
Project Manager: Tim Costello
Project Name: Terramar – 5100 Broadway
Sampled By: Keith Hoofard/Garrett Kuhl
Job Description: 5100 Broadway – Additional Site Characterization
Site Location: 5100 Broadway Oakland, CA

Client Job Number: 117-7429001.06
Destination Laboratory:
☒ CLS (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA 95742
www.californialab.com
☐ OTHER

ANALYSIS REQUESTED
PRESERVATIVES ▼
VOCs Full Scan (8260B)

GEOTRACKER
EDF REPORT ☒ YES ☐ NO
GLOBAL ID: T10000007048
FIELD CONDITIONS:

TURNAROUND TIME IN DAYS: 1 | 2 | 3 | 5
SPECIAL INSTRUCTIONS

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES ▼	VOCs Full Scan (8260B)	TURNAROUND TIME IN DAYS: 1	2	3	5	SPECIAL INSTRUCTIONS
7/30/15	1108	DC-SB-7-1'		SOIL	1	CORE	3	X		X			
	1109	DC-SB-7-5'		SOIL	1	CORE	3	X		X			
	1115	DC-SB-8-1'		SOIL	1	CORE	3	X		X			
	1116	DC-SB-8-5'		SOIL	1	CORE	3	X		X			
	1123	DC-SB-9-1'		SOIL	1	CORE	3	X		X			
	1124	DC-SB-9-5'		SOIL	1	CORE	3	X		X			
	1135	DC-SB-10-1'		SOIL	1	CORE	3	X		X			INVOICE TO:
	1137	DC-SB-10-5'		SOIL	1	CORE	3	X		X			
	1141	DC-SB-11-1'		SOIL	1	CORE	3	X		X			
	1142	DC-SB-11-5'		SOIL	1	CORE	3	X		X			
	1159	DC-SB-12-1'		SOIL	1	CORE	3	X		X			PO#
↓	1200	DC-SB-12-5'		SOIL	1	CORE	3	X		X			QUOTE#

SUSPECTED CONSTITUENTS
SAMPLE RETENTION TIME
PRESERVATIVES (1) HCL (2) HNO3 (3) = COLD (4)= H2SO4

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
[signature]	K Hoofard / TETRA TECH	7/30/15 1631		

RECEIVED AT LAB BY: [signature] DATE/TIME: 7/30/15 1634 CONDITIONS/COMMENTS: (4)16

SHIPPED BY: ☐ FED EX ☐ UPS ☐ OTHER: HAND DELIVER AIR BILL #

CALIFORNIA LABORATORY SERVICES

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 #:

CALIFORNIA LABORATORY SERVICES CHAIN OF CUSTODY

CLS ID. NO. CYG1470-3 (3 of 3)

Report To:
Tetra Tech Inc. 2969 Prospect Park Dr
Rancho Cordova, CA 95670
Project Manager: Tim Costello
Project Name: Terramar – 5100 Broadway
Sampled By: Keith Heafner/Garrett Kuhl
Job Description: 5100 Broadway – Additional Site Characterization
Site Location: 5100 Broadway Oakland, CA

Client Job Number: 117-7429001.06
Destination Laboratory:
☒ CLS (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA
95742
www.californialab.com
☐ OTHER

ANALYSIS REQUESTED
PRESERVATIVES
VOCs Full Scan (8260B)

GEOTRACKER
EDF REPORT ☒ YES ☐ NO
GLOBAL ID.
T10000007048
FIELD CONDITIONS:

TURNAROUND TIME IN DAYS: 1 | 2 | 3 | 5
SPECIAL INSTRUCTIONS

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	VOCs Full Scan (8260B)	1	2	3	5
7/29/15	1206	DC-SB-13-1'		SOIL	1	CORE	3	X		X		
	1207	DC-SB-13-5'		SOIL	1	CORE	3	X		X		
	1217	DC-SB-14-1'		SOIL	1	CORE	3	X		X		
↓	1218	DC-SB-14-5'		SOIL	1	CORE	3	X		X		

INVOICE TO:
PO#
QUOTE#

SUSPECTED CONSTITUENTS
SAMPLE RETENTION TIME
PRESERVATIVES (1) HCL (3) = COLD (2) HNO_3 (4) = H_2SO_4

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
K Heafner	K Heafner / TETRA TECH	7/30/15 16:34		

RECEIVED AT LAB BY: DATE/TIME: 7/30/15 1634 CONDITIONS/COMMENTS: (4/6)

SHIPPED BY: ☐ FED EX ☐ UPS ☐ OTHER: HAND DELIVER AIR BILL #

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

Analyte	Result	Reporting 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									
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 (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	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	

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

Analyte	Result	Reporting 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)	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	"	"	"	"	"	"	

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

Analyte	Result	Reporting 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									
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 %*		*62-125*		*"*	*"*	*"*	*"*
DC-SB-1-5' (CYG1470-02) Soil Sampled: 07/30/15 10:06 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 (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	"	"	"	"	"	"	

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

Analyte	Result	Reporting 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 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	"	"	"	"	"	"	

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

Analyte	Result	Reporting 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-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	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	

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

Analyte	Result	Reporting 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 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	

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

Analyte	Result	Reporting 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 %*		*62-125*	*"*	"	*"*	*"*	

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Project: Terramar -5100 Broadway
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Project Manager: Tim Costello

CLS Work Order #: CYG1470
COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting 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									
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 (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	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	

Tetra Tech EM Inc.
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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

Analyte	Result	Reporting 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)	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	"	"	"	"	"	"	

Tetra Tech EM Inc.
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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

Analyte	Result	Reporting 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 %*	*62-125*		*"*	"	*"*	*"*	
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-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	"	"	"	"	"	"	
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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Project Manager: Tim Costello

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COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting 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									
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	"	"	"	"	"	"	

Tetra Tech EM Inc.
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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

Analyte	Result	Reporting 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-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	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	

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Project Manager: Tim Costello

CLS Work Order #: CYG1470
COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting 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									
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 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	

Tetra Tech EM Inc.
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Project: Terramar -5100 Broadway
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Project Manager: Tim Costello

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COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting 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		*108 %*		*50-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*112 %*		*50-128*	"	"	"	"	
Surrogate: Toluene-d8		*97 %*		*62-125*	"	"	"	"	

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

Analyte	Result	Reporting 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									
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 (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	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	

Tetra Tech EM Inc.
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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

Analyte	Result	Reporting 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)	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	"	"	"	"	"	"	

Tetra Tech EM Inc.
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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

Analyte	Result	Reporting 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									
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 Sampled: 07/30/15 10:27 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 (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	"	"	"	"	"	"	

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Project: Terramar -5100 Broadway
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Project Manager: Tim Costello

CLS Work Order #: CYG1470
COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting 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									
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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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

Analyte	Result	Reporting 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-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	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	

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Project Manager: Tim Costello

CLS Work Order #: CYG1470
COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting 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 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	

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Project: Terramar -5100 Broadway
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Project Manager: Tim Costello

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COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting 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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COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting 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									
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 (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	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	

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

Analyte	Result	Reporting 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)	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	"	"	"	"	"	"	

Tetra Tech EM Inc.
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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

Analyte	Result	Reporting 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 %*		*62-125*		*"*	*"*	*"*	*"*
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-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	"	"	"	"	"	"	
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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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

Analyte	Result	Reporting 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									
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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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

Analyte	Result	Reporting 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-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	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	

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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

Analyte	Result	Reporting 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 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	

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Project: Terramar -5100 Broadway
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Project Manager: Tim Costello

CLS Work Order #: CYG1470
COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting 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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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 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 (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	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	

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Project Manager: Tim Costello

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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 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	**5.2**	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	**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	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DC-SB-7-1' (CYG1470-13) Soil Sampled: 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 %*		*62-125*		*"*	*"*	*"*	*"*	
DC-SB-7-5' (CYG1470-14) Soil Sampled: 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 (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	"	"	"	"	"	"	

Tetra Tech EM Inc.
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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

Analyte	Result	Reporting Limit	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									
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	"	"	"	"	"	"	

Tetra Tech EM Inc.
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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

Analyte	Result	Reporting Limit	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-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	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	

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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

Analyte	Result	Reporting 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 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	

Tetra Tech EM Inc.
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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

Analyte	Result	Reporting 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		*111 %*		*50-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*		*50-128*	"	"	"	"	
Surrogate: Toluene-d8		*95 %*		*62-125*	"	"	"	"	

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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 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 (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	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	

Tetra Tech EM Inc.
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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

Analyte	Result	Reporting 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)	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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Project: Terramar -5100 Broadway
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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 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 Sampled: 07/30/15 11:23 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 (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	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	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)	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	"	"	"	"	"	"	

Tetra Tech EM Inc.
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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

Analyte	Result	Reporting Limit	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									
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 Sampled: 07/30/15 11:24 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 (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	"	"	"	"	"	"	

Tetra Tech EM Inc.
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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

Analyte	Result	Reporting 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 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	

Tetra Tech EM Inc.
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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

Analyte	Result	Reporting 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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CLS Work Order #: CYG1470
COC #:

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 Sampled: 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 (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	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	

Tetra Tech EM Inc.
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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

Analyte	Result	Reporting Limit	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	"	"	"	"	"	"	

Tetra Tech EM Inc.
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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

Analyte	Result	Reporting Limit	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									
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 %*		*62-125*	"	"	"	"	
DC-SB-10-5' (CYG1470-20) Soil Sampled: 07/30/15 11:37 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 (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	"	"	"	"	"	"	

Tetra Tech EM Inc.
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Project: Terramar -5100 Broadway
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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									
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	"	"	"	"	"	"	

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

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									
1,1,1,2-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	"	"	"	"	"	"	
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	"	"	"	"	"	"	

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

Analyte	Result	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									
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)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	

Tetra Tech EM Inc.
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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

Analyte	Result	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 %*		*62-125*	*"*	"	*"*	*"*	

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Project: Terramar -5100 Broadway
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Project Manager: Tim Costello

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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 Sampled: 07/30/15 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 (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	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	

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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

Analyte	Result	Reporting 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	"	"	"	"	"	"	

Tetra Tech EM Inc.
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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

Analyte	Result	Reporting 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									
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 Sampled: 07/30/15 11:59 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 (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	"	"	"	"	"	"	

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Project: Terramar -5100 Broadway
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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									
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	"	"	"	"	"	"	

Tetra Tech EM Inc.
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Project: Terramar -5100 Broadway
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Project Manager: Tim Costello

CLS Work Order #: CYG1470
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									
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									
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	"	"	"	"	"	"	
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	"	"	"	"	"	"	

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

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									
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)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	

Tetra Tech EM Inc.
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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

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									
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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Project: Terramar -5100 Broadway
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Project Manager: Tim Costello

CLS Work Order #: CYG1470
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									
1,1,1,2-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	"	"	"	"	"	"	
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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Project: Terramar -5100 Broadway
Project Number: 117-7429001.06
Project Manager: Tim Costello

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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									
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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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

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									
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									
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	"	"	"	"	"	"	
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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Project Manager: Tim Costello

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COC #:

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									
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	**8.5**	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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Project: Terramar -5100 Broadway
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Project Manager: Tim Costello

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COC #:

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									
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									
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	"	"	"	"	"	"	
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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Project: Terramar -5100 Broadway
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Project Manager: Tim Costello

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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									
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)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	

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

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 %*		*62-125*		*"*	*"*	*"*	

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COC #:

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 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 (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	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	

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CLS Work Order #: CYG1470
COC #:

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 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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Project: Terramar -5100 Broadway
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COC #:

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 Received: 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 %*		*50-125*	*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*101 %*		*50-128*	*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*104 %*		*62-125*	*"*	*"*	*"*	*"*	

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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 & 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	"							
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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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 & 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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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 & 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	
1,1-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)	**Source: CYG1470-01**			Prepared: 07/31/15 Analyzed: 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			
1,1-Dichloroethene	18.5	5.0	"	20.0	ND	93	53-152			
Toluene	18.7	5.0	"	20.0	ND	93	58-139			

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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										
Matrix Spike (CY05254-MS1)	**Source: CYG1470-01**			Prepared: 07/31/15 Analyzed: 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: CYG1470-01**			Prepared: 07/31/15 Analyzed: 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-7
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: 08/01/15						
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	"							

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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 & 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	"							

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 & 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 & 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*			

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										
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)	**Source: CYG1470-21**			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			
Trichloroethene	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)	**Source: CYG1470-21**			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	
1,1-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	
Trichloroethene	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*			

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)	**Source: CYG1470-21**			Prepared & Analyzed: 08/01/15						
Surrogate: 4-Bromofluorobenzene	*21.4*		*µg/kg*	*30.0*		*71*	*50-128*			

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 #:

Notes and Definitions

QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
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

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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,

Kelly Buettner

Project Manager

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WORK ORDER #: 1508037A

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 BROADWAY
DATE RECEIVED:	08/04/2015	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	08/12/2015		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL 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: Heidi Mayo DATE: 08/12/15

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

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

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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

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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	19000000

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

Lab ID#: 1508037A-06A

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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

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

Lab ID#: 1508037A-01A

EPA METHOD TO-15 GC/MS

File Name:	**14081007**	**Date of Collection:**	**8/4/15 11:35:00 AM**
Dil. Factor:	**11.0**	**Date of Analysis:**	**8/10/15 11:02 AM**

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

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

Lab ID#: 1508037A-01A

EPA METHOD TO-15 GC/MS

File Name:	**14081007**	**Date of Collection:**	**8/4/15 11:35:00 AM**
Dil. Factor:	**11.0**	**Date of Analysis:**	**8/10/15 11:02 AM**

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

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

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

Lab ID#: 1508037A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a080707**	**Date of Collection:**	**8/4/15 11:53:00 AM**
Dil. Factor:	**11.5**	**Date of Analysis:**	**8/7/15 01:47 PM**

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
Heptane	5.8	Not Detected	24	Not Detected
Trichloroethene	5.8	750	31	4000
1,2-Dichloropropane	5.8	Not Detected	26	Not Detected
1,4-Dioxane	23	Not Detected	83	Not Detected
Bromodichloromethane	5.8	Not Detected	38	Not Detected
cis-1,3-Dichloropropene	5.8	Not Detected	26	Not Detected
4-Methyl-2-pentanone	5.8	Not Detected	24	Not Detected
Toluene	5.8	100	22	380
trans-1,3-Dichloropropene	5.8	Not Detected	26	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

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

Lab ID#: 1508037A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a080707**	**Date of Collection:**	**8/4/15 11:53:00 AM**
Dil. Factor:	**11.5**	**Date of Analysis:**	**8/7/15 01:47 PM**

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

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

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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**	**Date of Analysis:**	**8/10/15 11:22 AM**

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

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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**	**Date of Analysis:**	**8/10/15 11:22 AM**

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

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

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

Lab ID#: 1508037A-04A

EPA METHOD TO-15 GC/MS

File Name:	**14081009**	**Date of Collection:**	**8/4/15 12:34:00 PM**
Dil. Factor:	**2.75**	**Date of Analysis:**	**8/10/15 11:43 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (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
1,1-Dichloroethene	14	72	54	280
Acetone	55	Not Detected	130	Not Detected
2-Propanol	55	Not Detected	140	Not Detected
Carbon Disulfide	14	Not Detected	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
trans-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
4-Methyl-2-pentanone	14	Not Detected	56	Not Detected
Toluene	14	Not Detected	52	Not Detected
trans-1,3-Dichloropropene	14	Not Detected	62	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

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

Lab ID#: 1508037A-04A

EPA METHOD TO-15 GC/MS

File Name:	**14081009**	**Date of Collection:**	**8/4/15 12:34:00 PM**
Dil. Factor:	**2.75**	**Date of Analysis:**	**8/10/15 11:43 AM**

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

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

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

Lab ID#: 1508037A-05A

EPA METHOD TO-15 GC/MS

File Name:	**14081010**	**Date of Collection:**	**8/4/15 12:58:00 PM**
Dil. Factor:	**738**	**Date of Analysis:**	**8/10/15 12:08 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (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
Tetrachloroethene	3700	2800000	25000	19000000
2-Hexanone	15000	Not Detected	60000	Not Detected

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

Lab ID#: 1508037A-05A

EPA METHOD TO-15 GC/MS

File Name:	**14081010**	**Date of Collection: 8/4/15 12:58:00 PM**	
Dil. Factor:	**738**	**Date of Analysis: 8/10/15 12:08 PM**	

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

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

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

Lab ID#: 1508037A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3081027**	**Date of Collection:**	**8/4/15 1:17:00 PM**
Dil. Factor:	**2.33**	**Date of Analysis:**	**8/11/15 01:10 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	2.4	5.8	12
Freon 114	1.2	Not Detected	8.1	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	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
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	1.5	4.4	5.6
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	21	7.9	140
2-Hexanone	4.7	Not Detected	19	Not Detected

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

Lab ID#: 1508037A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3081027**	**Date of Collection:**	**8/4/15 1:17:00 PM**
Dil. Factor:	**2.33**	**Date of Analysis:**	**8/11/15 01:10 AM**

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

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

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

Lab ID#: 1508037A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a080708**	**Date of Collection:**	**8/4/15 1:38:00 PM**
Dil. Factor:	**23.0**	**Date of Analysis:**	**8/7/15 02:24 PM**

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
Heptane	12	Not Detected	47	Not Detected
Trichloroethene	12	130	62	720
1,2-Dichloropropane	12	Not Detected	53	Not Detected
1,4-Dioxane	46	Not Detected	160	Not Detected
Bromodichloromethane	12	Not Detected	77	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

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

Lab ID#: 1508037A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a080708**	**Date of Collection:**	**8/4/15 1:38:00 PM**
Dil. Factor:	**23.0**	**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

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

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Client Sample ID: Lab Blank

Lab ID#: 1508037A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a080706**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/15 12:40 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (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

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Client Sample ID: Lab Blank

Lab ID#: 1508037A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a080706**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/15 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

Container Type: NA - Not Applicable

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

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Client Sample ID: Lab Blank

Lab ID#: 1508037A-08B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3081006**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/10/15 12:21 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (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

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Client Sample ID: Lab Blank

Lab ID#: 1508037A-08B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3081006**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**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

Container Type: NA - Not Applicable

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

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Client Sample ID: Lab Blank

Lab ID#: 1508037A-08C

EPA METHOD TO-15 GC/MS

File Name:	**14081005**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/10/15 09:58 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (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

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Client Sample ID: Lab Blank

Lab ID#: 1508037A-08C

EPA METHOD TO-15 GC/MS

File Name:	**14081005**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/10/15 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

Container Type: NA - Not Applicable

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

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Client Sample ID: CCV

Lab ID#: 1508037A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a080703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**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
Tetrachloroethene	94
2-Hexanone	76

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Client Sample ID: CCV

Lab ID#: 1508037A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a080703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**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

Container Type: NA - Not Applicable

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

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Client Sample ID: CCV

Lab ID#: 1508037A-09B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3081002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**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

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Client Sample ID: CCV

Lab ID#: 1508037A-09B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3081002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**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

Container Type: NA - Not Applicable

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

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Client Sample ID: CCV

Lab ID#: 1508037A-09C

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

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Client Sample ID: CCV

Lab ID#: 1508037A-09C

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
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.

Container Type: NA - Not Applicable

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

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Client Sample ID: LCS

Lab ID#: 1508037A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a080704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/15 11:41 AM**	

Compound	%Recovery	Method 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

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Client Sample ID: LCS

Lab ID#: 1508037A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a080704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/15 11:41 AM**	

Compound	%Recovery	Method Limits
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

Container Type: NA - Not Applicable

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

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Client Sample ID: LCSD

Lab ID#: 1508037A-10AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a080705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/15 12:07 PM**	

Compound	%Recovery	Method 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

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Client Sample ID: LCSD

Lab ID#: 1508037A-10AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a080705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/15 12:07 PM**	

Compound	%Recovery	Method 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

Container Type: NA - Not Applicable

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

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Client Sample ID: LCS

Lab ID#: 1508037A-10B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3081003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/10/15 10:48 AM**	

Compound	%Recovery	Method 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

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Client Sample ID: LCS

Lab ID#: 1508037A-10B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3081003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/10/15 10:48 AM**	

Compound	%Recovery	Method 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.

Container Type: NA - Not Applicable

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

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Client Sample ID: LCSD

Lab ID#: 1508037A-10BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3081004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 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

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Client Sample ID: LCSD

Lab ID#: 1508037A-10BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3081004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/10/15 11:13 AM**	

Compound	%Recovery	Method Limits
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.

Container Type: NA - Not Applicable

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

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Client Sample ID: LCS

Lab ID#: 1508037A-10C

EPA METHOD TO-15 GC/MS

File Name:	**14081003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/10/15 09:21 AM**	

Compound	%Recovery	Method 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

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Client Sample ID: LCS

Lab ID#: 1508037A-10C

EPA METHOD TO-15 GC/MS

File Name:	**14081003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**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

Container Type: NA - Not Applicable

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

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Client Sample ID: LCSD

Lab ID#: 1508037A-10CC

EPA METHOD TO-15 GC/MS

File Name:	**14081004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/10/15 09:40 AM**	

Compound	%Recovery	Method Limits
Freon 12	105	70-130
Freon 114	104	70-130
Chloromethane	98	70-130
Vinyl Chloride	92	70-130
1,3-Butadiene	92	70-130
Bromomethane	88	70-130
Chloroethane	104	70-130
Freon 11	105	70-130
Ethanol	85	70-130
Freon 113	97	70-130
1,1-Dichloroethene	99	70-130
Acetone	94	70-130
2-Propanol	98	70-130
Carbon Disulfide	84	70-130
3-Chloropropene	96	70-130
Methylene Chloride	93	70-130
Methyl tert-butyl ether	90	70-130
trans-1,2-Dichloroethene	84	70-130
Hexane	101	70-130
1,1-Dichloroethane	100	70-130
2-Butanone (Methyl Ethyl Ketone)	96	70-130
cis-1,2-Dichloroethene	105	70-130
Tetrahydrofuran	100	70-130
Chloroform	101	70-130
1,1,1-Trichloroethane	101	70-130
Cyclohexane	101	70-130
Carbon Tetrachloride	111	70-130
2,2,4-Trimethylpentane	97	70-130
Benzene	94	70-130
1,2-Dichloroethane	104	70-130
Heptane	94	70-130
Trichloroethene	92	70-130
1,2-Dichloropropane	93	70-130
1,4-Dioxane	99	70-130
Bromodichloromethane	103	70-130
cis-1,3-Dichloropropene	101	70-130
4-Methyl-2-pentanone	108	70-130
Toluene	99	70-130
trans-1,3-Dichloropropene	98	70-130
1,1,2-Trichloroethane	99	70-130
Tetrachloroethene	100	70-130
2-Hexanone	95	70-130

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Client Sample ID: LCSD

Lab ID#: 1508037A-10CC

EPA METHOD TO-15 GC/MS

File Name:	**14081004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 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

Container Type: NA - Not Applicable

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

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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,

Kelly Buettner

Project Manager

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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 BROADWAY
DATE RECEIVED:	08/04/2015	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	08/12/2015		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL 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

CERTIFIED BY: Heidi Mayo DATE: 08/12/15

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

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

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.	The standards used by ATL are blended to a >/= 95% 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%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
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

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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

Compound	Rpt. Limit (%)	Amount (%)
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.

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

Lab ID#: 1508037B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9081208b**	**Date of Collection: 8/4/15 11:35:00 AM**	
Dil. Factor:	**2.20**	**Date of Analysis: 8/12/15 11:34 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

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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:	**9081209b**	**Date of Collection: 8/4/15 11:53:00 AM**	
Dil. Factor:	**2.30**	**Date of Analysis: 8/12/15 11:57 AM**	

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

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

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

Lab ID#: 1508037B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9081210b**	**Date of Collection: 8/4/15 12:12:00 PM**	
Dil. Factor:	**2.32**	**Date of Analysis: 8/12/15 12:33 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

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

Lab ID#: 1508037B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9081211b**	**Date of Collection: 8/4/15 12:34:00 PM**	
Dil. Factor:	**2.20**	**Date of Analysis: 8/12/15 01:05 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

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

Lab ID#: 1508037B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9081212b**	**Date of Collection: 8/4/15 12:58:00 PM**	
Dil. Factor:	**2.36**	**Date of Analysis: 8/12/15 01:53 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

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

Lab ID#: 1508037B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9081213b**	**Date of Collection: 8/4/15 1:17:00 PM**	
Dil. Factor:	**2.91**	**Date of Analysis: 8/12/15 02:31 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.14	Not Detected

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

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

Lab ID#: 1508037B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9081214b**	**Date of Collection: 8/4/15 1:38:00 PM**	
Dil. Factor:	**2.29**	**Date of Analysis: 8/12/15 02:55 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1508037B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9081203b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/12/15 09:08 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1508037B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9081202b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/12/15 08:44 AM**	

Compound	%Recovery	Method Limits
Helium	102	85-115

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1508037B-09AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9081215b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/12/15 03:18 PM**	

Compound	%Recovery	Method Limits
Helium	102	85-115

Container Type: NA - Not Applicable

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

September 16, 2015

CLS Work Order #: CYI0462
COC #:

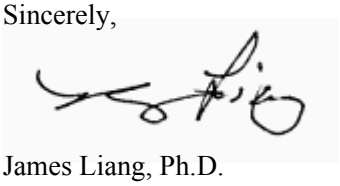
Tim Costello
Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

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,



James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

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

Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
COC #:

CALIFORNIA LABORATORY SERVICES CHAIN OF CUSTODY

CLS ID. NO. CYI0462-1 (1 of 4)

Report To: Tetra Tech Inc. 2969 Prospect Park Dr., Rancho Cordova, CA 95670
Project Manager: Tim Costello (timothy.costello@tetratech.com)
Project Name: Terramar – 5100 Broadway
Sampled By: Keith Hoofard/Brian Strand
Job Description: 5100 Broadway – Addendum to Additional Site Characterization
August 31, 2015 Addendum Work Plan
Site Location: 5100 Broadway Oakland, CA

Client Job Number: 117-7429001.06
Destination Laboratory: ☒ CLS (916) 638-7301, 3249 Fitzgerald Road, Rancho Cordova, CA 95742, www.californialab.com ☐ OTHER

GEOTRACKER
EDF REPORT ☒ YES ☐ NO
GLOBAL ID: T10000007048
FIELD CONDITIONS:

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	CONTAINER MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	VOCs Full Scan (8260B)	TURNAROUND TIME IN DAYS 1	2	3	5	SPECIAL INSTRUCTIONS
9/8/15	0839	DC-SB-15-12'		SOIL	1	TUBE	3	X			X		
9/8/15	0850	DC-SB-15-17'		SOIL	1	TUBE	3	X			X		
~~9/8/15~~	~~0850~~	~~DC-SB-15-___'~~		~~SOIL~~	~~1~~	~~TUBE~~	3	X			X		
9/8/15	1040	DC-SB-16-08'		SOIL	1	TUBE	3	X			X		
9/8/15	1050	DC-SB-16-13'		SOIL	1	TUBE	3	X			X		
9/8/15	1057	DC-SB-16-15'		SOIL	1	TUBE	3	X			X		
9/8/15	1318	DC-SB-17-12'		SOIL	1	TUBE	3	X			X		INVOICE TO:
9/8/15	1321	DC-SB-17-15'		SOIL	1	TUBE	3	X			X		
~~9/8/15~~	~~1321~~	~~DC-SB-17-___'~~		~~SOIL~~	~~1~~	~~TUBE~~	3	X			X		
9/8/15	1452	DC-SB-18-11.5'		SOIL	1	TUBE	3	X			X		
9/8/15	1500	DC-SB-18-17'		SOIL	1	TUBE	3	X			X		PO#
~~9/8/15~~	~~1500~~	~~DC-SB-18-___'~~		~~SOIL~~	~~1~~	~~TUBE~~	3	X			X		~~QUOTE#~~

SUSPECTED CONSTITUENTS
SAMPLE RETENTION TIME
PRESERVATIVES (1) HCL (2) HNO_3 (3) = COLD (4)= H_2SO_4

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
	Keith Hoofard/Tetra Tech	9/11/15 0850		
	Bill Shriner Tetra Tech	9/11/15 1100		Bill Shriner TetaTech

RECEIVED AT LAB BY: DWH DATE/TIME: 9-11-15 1100 CONDITIONS/COMMENTS:

SHIPPED BY: ☐ FED EX ☐ UPS ☒ OTHER HAND DELIVERED (1.1) AIR BILL #

CALIFORNIA LABORATORY SERVICES

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

Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
COC #:

CALIFORNIA LABORATORY SERVICES CHAIN OF CUSTODY CLS ID. NO. CYI0462-2 (2 of 4)

Report To:
Tetra Tech Inc. 2969 Prospect Park Dr
Rancho Cordova, CA 95670
Project Manager: Tim Costello (timothy.costello@tetratech.com)
Project Name: Terramar – 5100 Broadway
Sampled By: Keith Hoofard/Brian Strand
Job Description: 5100 Broadway – Addendum to Additional Site Characterization
August 31, 2015 Addendum Work Plan
Site Location: 5100 Broadway Oakland, CA

Client Job Number: 117-7429001.06
Destination Laboratory:
☒ CLS (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA 95742
www.californialab.com
☐ OTHER

ANALYSIS REQUESTED
PRESERVATIVES
VOCs Full Scan (8260B)

GEOTRACKER
EDF REPORT ☒ YES ☐ NO
GLOBAL ID: T10000007048
FIELD CONDITIONS:

TURNAROUND TIME IN DAYS: 1 | 2 | 3 | 5
SPECIAL INSTRUCTIONS

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	VOCs Full Scan (8260B)	TURNAROUND TIME IN DAYS (3)	SPECIAL INSTRUCTIONS
7/10/15	1150	DC-SB-~~15~~ 19'		SOIL	1	TUBE	3	X	X	
		DC-SB-19-___'		SOIL	1	TUBE	3	X	X	
		DC-SB-19-___'		SOIL	1	TUBE	3	X	X	
9/9/15	0832	DC-SB-20-06'		SOIL	1	TUBE	3	X	X	
9/9/15	0836	DC-SB-20-10'		SOIL	1	TUBE	3	X	X	
9/9/15	0856	DC-SB-20-17'		SOIL	1	TUBE	3	X	X	
9/9/15	1046	DC-SB-21-07'		SOIL	1	TUBE	3	X	X	INVOICE TO:
9/9/15	1054	DC-SB-21-13.5'		SOIL	1	TUBE	3	X	X	
9/9/15	1103	DC-SB-21-17'		SOIL	1	TUBE	3	X	X	
~~9/9/15~~		~~DC-SB-22-___'~~		~~SOIL~~	~~1~~	~~TUBE~~	~~3~~	~~X~~	X	KH 9/11/15
		~~DC-SB-22-___'~~		~~SOIL~~	~~1~~	~~TUBE~~	~~3~~	~~X~~	X	PO#
		~~DC-SB-22-___'~~		~~SOIL~~	~~1~~	~~TUBE~~	~~3~~	~~X~~	X	QUOTE# KH 9/11/15

SUSPECTED CONSTITUENTS
SAMPLE RETENTION TIME
PRESERVATIVES (1) HCL (2) HNO_3 (3) = COLD (4) = H_2SO_4

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
	Keith Hoofard/Tetra Tech	9/11/15 0850		
		9/11/15 1703		

RECEIVED AT LAB BY: DATE/TIME: 9-11-15 1109 CONDITIONS/COMMENTS:

SHIPPED BY: ☐ FED EX ☐ UPS ☒ OTHER: HAND DELIVERED AIR BILL #

CALIFORNIA LABORATORY SERVICES

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 #:

CALIFORNIA LABORATORY SERVICES CHAIN OF CUSTODY

CLS ID. NO. CYI0462-3 (3 of 4)

Report To:
Tetra Tech Inc. 2969 Prospect Park Dr
Rancho Cordova, CA 95670
Project Manager: Tim Costello (timothy.costello@tetratech.com)
Project Name: Terramar – 5100 Broadway
Sampled By: Keith Hoofard/Brian Strand
Job Description: 5100 Broadway – Addendum to Additional Site Characterization
August 31, 2015 Addendum Work Plan
Site Location: 5100 Broadway Oakland, CA

Client Job Number: 117-7429001.06
Destination Laboratory:
☒ CLS (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA
95742
www.californialab.com
☐ OTHER

ANALYSIS REQUESTED
PRESERVATIVES ▼
VOCs Full Scan (8260B)

GEOTRACKER
EDF REPORT ☒ YES ☐ NO
GLOBAL ID: T10000007048
FIELD CONDITIONS:

TURNAROUND TIME IN DAYS: 1 | 2 | 3 | 5
SPECIAL INSTRUCTIONS

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES ▼	VOCs Full Scan (8260B)	TURNAROUND TIME IN DAYS (3)	SPECIAL INSTRUCTIONS
9/10/15	0741	DC-SB-23-3.5'		SOIL	1	TUBE	3	X	X	
9/10/15	0755	DC-SB-23-14.5'		SOIL	1	TUBE	3	X	X	
~~9/10/15~~		~~DC-SB-23-___'~~		~~SOIL~~	~~1~~	~~TUBE~~	~~3~~	~~X~~	X	~~9/11~~
9/10/15	0925	DC-SB-24-9.5'		SOIL	1	TUBE	3	X	X	
9/10/15	0931	DC-SB-24-13.5'		SOIL	1	TUBE	3	X	X	
9/10/15	0937	DC-SB-24-17'		SOIL	1	TUBE	3	X	X	
	1138	DC-SB-25-9'		SOIL	1	TUBE	3	X	X	INVOICE TO:
	1142	DC-SB-25-11.5'		SOIL	1	TUBE	3	X	X	
	1148	DC-SB-25-16.5'		SOIL	1	TUBE	3	X	X	
	1405	DC-SB-26-9.5'		SOIL	1	TUBE	3	X	X	
↓	1414	DC-SB-26-14.5'		SOIL	1	TUBE	3	X	X	PO# 9/11/15 QUOTE#
		~~DC-SB-26-___'~~		~~SOIL~~	~~1~~	~~TUBE~~	~~3~~	~~X~~	X	~~9/11~~

SUSPECTED CONSTITUENTS
SAMPLE RETENTION TIME
PRESERVATIVES (1) HCL (2) HNO_3 (3) = COLD (4) = H_2SO_4

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
	K Hoofard / TT	9/11/15 0850		Bill Schmieder Tetra Tech
	Bill Schmieder Tetratech	9/11/15 11:00		

RECEIVED AT LAB BY: DW DATE/TIME: 9-11-15 1100 CONDITIONS/COMMENTS:

SHIPPED BY: ☐ FED EX ☐ UPS ☒ OTHER: HAND DELIVER (2.1) AIR BILL #

CALIFORNIA LABORATORY SERVICES

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

Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
COC #:

CALIFORNIA LABORATORY SERVICES CHAIN OF CUSTODY

CLS ID. NO. CYI0462-4 (4_of_4_)

Report To:
Tetra Tech Inc. 2969 Prospect Park Dr.
Rancho Cordova, CA 95670
Project Manager: Tim Costello (timothy.costello@tetratech.com)
Project Name: Terramar – 5100 Broadway
Sampled By: Keith Hoofard/Brian Strand
Job Description: 5100 Broadway – Addendum to Additional Site Characterization
August 31, 2015 Addendum Work Plan
Site Location: 5100 Broadway Oakland, CA

Client Job Number: 117-7429001.06
Destination Laboratory:
☒ CLS (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA 95742
www.californialab.com
☐ OTHER

GEOTRACKER
EDF REPORT ☒ YES ☐ NO
GLOBAL ID: T10000007048
FIELD CONDITIONS:

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	VOCs Full Scan (8260B)	TURNAROUND TIME IN DAYS 1	2	3	5	SPECIAL INSTRUCTIONS
9/8/15	0910	DC-SB-15-GW		WATER	3	VOA	1/3	X			X		
9/8/15	1130	DC-SB-16-GW		WATER	3	VOA	1/3	X			X		
9/8/15	1355	DC-SB-17-GW		WATER	3	VOA	1/3	X			X		
9/8/15	1523	DC-SB-18-GW		WATER	3	VOA	1/3	X			X		
~~—~~	~~—~~	~~DC-SB-19-GW~~		~~WATER~~	~~3~~	~~VOA~~	1/3	X			X		KH 9-11-15
9/9/15	0913	DC-SB-20-GW		WATER	3	VOA	1/3	X			X		
9/9/15	1124	DC-SB-21-GW		WATER	3	VOA	1/3	X			X		INVOICE TO:
~~—~~	~~—~~	~~DC-SB-22-GW~~		~~WATER~~	~~3~~	~~VOA~~	1/3	X			X		KH 9/11/15
9/10/15	0818	DC-SB-23-GW		WATER	3	VOA	1/3	X			X		
9/10/15	1015	DC-SB-24-GW		WATER	3	VOA	1/3	X			X		
9/10/15	1254	DC-SB-25-GW		WATER	3	VOA	1/3	X			X		PO#
9/10/15	1435	DC-SB-26-GW		WATER	3	VOA	1/3	X			X		QUOTE#

SUSPECTED CONSTITUENTS
SAMPLE RETENTION TIME
PRESERVATIVES (1) HCL (2) HNO_3 (3) = COLD (4) = H_2SO_4

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
[signature]	Keith Hoofard/Tetra Tech	9/11/15 0850	[signature]	Tetra Tech/CLS
[signature]	TetraTech Bill Shaw	9/11/15 11:00		

RECEIVED AT LAB BY: [signature] DATE/TIME: 9-11-15 1100 CONDITIONS/COMMENTS:
SHIPPED BY: ☐ FEDEX ☐ UPS ☒ OTHER: HAND DELIVERED (1/1) AIR BILL #

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

Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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 11:00									
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 (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	"	"	"	"	"	"	

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

Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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 11:00									
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	"	"	"	"	"	"	

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

Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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 11:00									
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		*125 %*		*50-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*112 %*		*50-128*	"	"	"	"	
Surrogate: Toluene-d8		*93 %*		*62-125*	"	"	"	"	
DC-SB-15-17' (CYI0462-02) Soil Sampled: 09/08/15 08:50 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 (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	"	"	"	"	"	"	

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

Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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 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	"	"	"	"	"	"	

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

Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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 Sampled: 09/08/15 08:50 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		*136 %*		*50-125*	"	"	"	"	*QS-HI*
Surrogate: 4-Bromofluorobenzene		*114 %*		*50-128*	"	"	"	"	
Surrogate: Toluene-d8		*96 %*		*62-125*	"	"	"	"	
DC-SB-16-08' (CYI0462-03) Soil Sampled: 09/08/15 10:40 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 (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	"	"	"	"	"	"	

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

Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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									
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	"	"	"	"	"	"	

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

Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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-HI*
Surrogate: 4-Bromofluorobenzene		*107 %*		*50-128*	*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*97 %*		*62-125*	*"*	*"*	*"*	*"*	

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

Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
COC #:

Volatile Organic Compounds by EPA Method 8260B

DC-SB-16-13' (CYI0462-04) Soil Sampled: 09/08/15 10:50 Received: 09/11/15 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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	"	"	"	"	"	"	
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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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: 09/08/15 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	"	"	"	"	"	"	

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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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: 09/08/15 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: 09/08/15 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 (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	"	"	"	"	"	"	

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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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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 Sampled: 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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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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 Sampled: 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 Sampled: 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 (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	"	"	"	"	"	"	

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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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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									
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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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-HI*
Surrogate: 4-Bromofluorobenzene		*107 %*		*50-128*	*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*99 %*		*62-125*	*"*	*"*	*"*	*"*	

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Project Manager: Tim Costello

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COC #:

Volatile Organic Compounds by EPA Method 8260B

DC-SB-17-15' (CYI0462-07) Soil Sampled: 09/08/15 13:21 Received: 09/11/15 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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	"	"	"	"	"	"	
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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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: 09/11/15 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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Rancho Cordova, CA 95670

Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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: 09/11/15 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		*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 14:52 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 (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	"	"	"	"	"	"	

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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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: 09/11/15 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 (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	"	"	"	"	"	"	

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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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									
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	**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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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*	"	"	"	"	*QS-4*
Surrogate: 4-Bromofluorobenzene		*123 %*		*50-128*	"	"	"	"	
Surrogate: Toluene-d8		*99 %*		*62-125*	"	"	"	"	

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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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COC #:

Volatile Organic Compounds by EPA Method 8260B

DC-SB-25-19' (CYI0462-10) Soil Sampled: 09/10/15 11:50 Received: 09/11/15 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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	"	"	"	"	"	"	
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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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 11:00									
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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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 11:00									
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		*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 11:00									
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 (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	"	"	"	"	"	"	

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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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: 09/11/15 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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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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: 09/11/15 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		*137 %*		*50-125*	"	"	"	"	*QS-HI*
Surrogate: 4-Bromofluorobenzene		*105 %*		*50-128*	"	"	"	"	
Surrogate: Toluene-d8		*94 %*		*62-125*	"	"	"	"	
DC-SB-20-10' (CYI0462-12) Soil Sampled: 09/09/15 08:36 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 (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	"	"	"	"	"	"	

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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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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: 09/11/15 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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Project Number: [none]
Project Manager: Tim Costello

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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: 09/11/15 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-HI*
Surrogate: 4-Bromofluorobenzene	*106 %*		*50-128*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8	*96 %*		*62-125*		*"*	*"*	*"*	*"*	

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Project Number: [none]
Project Manager: Tim Costello

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COC #:

Volatile Organic Compounds by EPA Method 8260B

DC-SB-20-17' (CYI0462-13) Soil Sampled: 09/09/15 08:50 Received: 09/11/15 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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	"	"	"	"	"	"	
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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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 11:00									
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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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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 11:00									
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	*133 %*		*50-125*		*"*	"	*"*	*"*	*QS-HI*
Surrogate: 4-Bromofluorobenzene	*154 %*		*50-128*		*"*	"	*"*	*"*	*QS-HI*
Surrogate: Toluene-d8	*97 %*		*62-125*		*"*	"	*"*	*"*	
DC-SB-21-07' (CYI0462-14) Soil Sampled: 09/09/15 10:46 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 (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	"	"	"	"	"	"	

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Project Number: [none]
Project Manager: Tim Costello

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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 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	"	"	"	"	"	"	

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

Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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 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		*131 %*		*50-125*	"	"	"	"	*QS-HI*
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 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 (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	"	"	"	"	"	"	

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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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									
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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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-HI*
Surrogate: 4-Bromofluorobenzene		*107 %*		*50-128*	"	"	"	"	
Surrogate: Toluene-d8		*96 %*		*62-125*	"	"	"	"	

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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
COC #:

Volatile Organic Compounds by EPA Method 8260B

DC-SB-21-17' (CYI0462-16) Soil Sampled: 09/09/15 11:03 Received: 09/11/15 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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	"	"	"	"	"	"	
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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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: 09/11/15 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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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: 09/11/15 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		*136 %*		*50-125*	"	"	"	"	*QS-HI*
Surrogate: 4-Bromofluorobenzene		*119 %*		*50-128*	"	"	"	"	
Surrogate: Toluene-d8		*95 %*		*62-125*	"	"	"	"	
DC-SB-23-7.5' (CYI0462-17) Soil Sampled: 09/10/15 07:41 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 (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	"	"	"	"	"	"	

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2969 Prospect Park Drive, Suite 100
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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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: 09/11/15 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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Rancho Cordova, CA 95670

Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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: 09/11/15 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	**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 (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	"	"	"	"	"	"	

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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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 %*		*62-125*	"	"	"	"	

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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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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: 09/11/15 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	"	"	"	"	"	"	
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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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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: 09/11/15 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)	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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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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: 09/11/15 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	*131 %*		*50-125*		*"*	"	*"*	*"*	*QS-4*
Surrogate: 4-Bromofluorobenzene	*137 %*		*50-128*		*"*	"	*"*	*"*	*QS-4*
Surrogate: Toluene-d8	*94 %*		*62-125*		*"*	"	*"*	*"*	
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 (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	"	"	"	"	"	"	

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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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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									
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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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									
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	"	"	"	"	"	"	
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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Project Number: [none]
Project Manager: Tim Costello

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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: 09/11/15 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	"	"	"	"	"	"	

Tetra Tech Geo
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Rancho Cordova, CA 95670

Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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: 09/11/15 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*	*"*	*"*	*"*	*"*	*QS-4*
Surrogate: 4-Bromofluorobenzene		*141 %*		*50-128*	*"*	*"*	*"*	*"*	*QS-4*
Surrogate: Toluene-d8		*96 %*		*62-125*	*"*	*"*	*"*	*"*	

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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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: 09/10/15 11:38 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	"	"	"	"	"	"	
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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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: 09/10/15 11:38 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)	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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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: 09/10/15 11:38 Received: 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 (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	"	"	"	"	"	"	

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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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									
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	"	"	"	"	"	"	

Tetra Tech Geo
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Rancho Cordova, CA 95670

Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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	"	"	"	"	"	"	
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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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									
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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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*	*"*	*"*	*"*	*"*	*QS-4*
Surrogate: 4-Bromofluorobenzene		*131 %*		*50-128*	*"*	*"*	*"*	*"*	*QS-4*
Surrogate: Toluene-d8		*91 %*		*62-125*	*"*	*"*	*"*	*"*	

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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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: 09/11/15 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	"	"	"	"	"	"	
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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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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: 09/11/15 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)	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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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: 09/11/15 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		*133 %*		*50-125*	"	"	"	"	*QS-4*
Surrogate: 4-Bromofluorobenzene		*102 %*		*50-128*	"	"	"	"	
Surrogate: Toluene-d8		*92 %*		*62-125*	"	"	"	"	
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 (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	"	"	"	"	"	"	

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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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									
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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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*	"	"	"	"	*QS-4*
Surrogate: 4-Bromofluorobenzene		*105 %*		*50-128*	"	"	"	"	
Surrogate: Toluene-d8		*94 %*		*62-125*	"	"	"	"	
DC-SB-15-GW (CYI0462-27) Water Sampled: 09/08/15 09:10 Received: 09/11/15 11:00									**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 (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	"	"	"	"	"	"	

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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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: 09/11/15 11:00**							**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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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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: 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		*142 %*		*66-135*	"	"	"	"	*QS-4*
Surrogate: 4-Bromofluorobenzene		*117 %*		*73-125*	"	"	"	"	
Surrogate: Toluene-d8		*100 %*		*72-125*	"	"	"	"	

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Project Number: [none]
Project Manager: Tim Costello

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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: 09/11/15 11:00**							**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 (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	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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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: 09/11/15 11:00									**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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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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: 09/11/15 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 %*		*66-135*	"	"	"	"	*QS-4*
Surrogate: 4-Bromofluorobenzene		*111 %*		*73-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*72-125*	"	"	"	"	
DC-SB-17-GW (CYI0462-29) Water	**Sampled: 09/08/15 13:55**	**Received: 09/11/15 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 (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	"	"	"	"	"	"	

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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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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: 09/11/15 11:00									**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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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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: 09/11/15 11:00**							**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 %*	*66-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86 %*	*73-125*		"	"	"	"	
Surrogate: Toluene-d8		*95 %*	*72-125*		"	"	"	"	
DC-SB-18-GW (CYI0462-30) Water	**Sampled: 09/08/15 15:23**	**Received: 09/11/15 11:00**							**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 (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	"	"	"	"	"	"	

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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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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**
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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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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 %*		*66-135*	*"*	*"*	*"*	*"*	*QS-4*
Surrogate: 4-Bromofluorobenzene		*112 %*		*73-125*	*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*106 %*		*72-125*	*"*	*"*	*"*	*"*	

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Project Number: [none]
Project Manager: Tim Costello

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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: 09/11/15 11:00									**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 (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	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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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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: 09/11/15 11:00									**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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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: 09/11/15 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 %*		*66-135*	"	"	"	"	*QS-4*
Surrogate: 4-Bromofluorobenzene		*113 %*		*73-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*72-125*	"	"	"	"	
DC-SB-21-GW (CYI0462-32) Water	**Sampled: 09/09/15 11:24**	**Received: 09/11/15 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 (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	"	"	"	"	"	"	

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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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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: 09/11/15 11:00									**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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Project: Terramar 5100 Broadway
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Project Manager: Tim Costello

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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: 09/11/15 11:00**							**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 %*	*66-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88 %*	*73-125*		"	"	"	"	
Surrogate: Toluene-d8		*95 %*	*72-125*		"	"	"	"	
DC-SB-23-GW (CYI0462-33) Water	**Sampled: 09/10/15 08:18**	**Received: 09/11/15 11:00**							**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 (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	"	"	"	"	"	"	

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Project Manager: Tim Costello

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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: 09/11/15 11:00**							**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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Project Number: [none]
Project Manager: Tim Costello

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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: 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		*164 %*		*66-135*	"	"	"	"	*QS-4*
Surrogate: 4-Bromofluorobenzene		*115 %*		*73-125*	"	"	"	"	
Surrogate: Toluene-d8		*106 %*		*72-125*	"	"	"	"	

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Project Manager: Tim Costello

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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: 09/11/15 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 (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	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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Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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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: 09/11/15 11:00									**QRL-4**
Bromoform	ND	5.0	µg/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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Project Manager: Tim Costello

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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: 09/11/15 11:00**							**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 %*		*66-135*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*87 %*		*73-125*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*96 %*		*72-125*		*"*	*"*	*"*	*"*	
DC-SB-25-GW (CYI0462-35) Water	**Sampled: 09/10/15 12:54**	**Received: 09/11/15 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 (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	"	"	"	"	"	"	

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Project Number: [none]
Project Manager: Tim Costello

CLS Work Order #: CYI0462
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: 09/11/15 11:00									**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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Project Manager: Tim Costello

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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: 09/11/15 11:00									**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 %*		*66-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90 %*		*73-125*	"	"	"	"	
Surrogate: Toluene-d8		*95 %*		*72-125*	"	"	"	"	
DC-SB-26-GW (CYI0462-36) Water Sampled: 09/10/15 14:35 Received: 09/11/15 11:00									**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 (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	"	"	"	"	"	"	

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Project Manager: Tim Costello

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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: 09/11/15 11:00**							**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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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: 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		*116 %*		*66-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*		*73-125*	"	"	"	"	
Surrogate: Toluene-d8		*144 %*		*72-125*	"	"	"	"	*QS-4*

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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 & Analyzed: 09/11/15						
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	"							
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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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 & 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	"							
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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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 & 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)	**Source: CYI0462-01**			Prepared: 09/11/15 Analyzed: 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			
1,1-Dichloroethene	16.2	5.0	"	20.0	ND	81	53-152			
Toluene	13.5	5.0	"	20.0	ND	67	58-139			

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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										
Matrix Spike (CY06276-MS1)	**Source: CYI0462-01**			Prepared: 09/11/15 Analyzed: 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: CYI0462-01**			Prepared: 09/11/15 Analyzed: 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)				Prepared & Analyzed: 09/11/15						
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	"							
tert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							

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Project Manager: Tim Costello

CLS Work Order #: CYI0462
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						
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	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane (Freon 12)	ND	1.0	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
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	"							
Isopropylbenzene	ND	0.50	"							
p-Isopropyltoluene	ND	0.50	"							
Methylene chloride	ND	0.50	"							

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2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: Terramar 5100 Broadway
Project Number: [none]
Project Manager: Tim Costello

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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							
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	"							
1,1,2-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			
Toluene	23.8	0.50	"	20.0		119	60-137			
Trichloroethene	24.0	0.50	"	20.0		120	62-140			
Surrogate: 1,2-Dichloroethane-d4	*8.66*		*"*	*10.0*		*87*	*66-135*			

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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										
LCS (CY06279-BS1)				Prepared & Analyzed: 09/11/15						
Surrogate: Toluene-d8	*9.87*		*µg/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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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 CY06305 - EPA 5030 Soil MS										
Blank (CY06305-BLK1)				Prepared & Analyzed: 09/14/15						
o-Chlorotoluene	ND	5.0	µg/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	"							
1,1-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	"							
4-Methyl-2-pentanone	ND	50	"							
Methyl tert-butyl ether	ND	5.0	"							

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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 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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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 CY06305 - EPA 5030 Soil MS										
LCS Dup (CY06305-BSD1)				Prepared & 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)	**Source: CYI0462-26**			Prepared & 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-7*
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)	**Source: CYI0462-26**			Prepared & 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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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 & 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	"							
tert-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	"							
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	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane (Freon 12)	ND	1.0	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							

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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 & 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	"							
trans-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	"							
Isopropylbenzene	ND	0.50	"							
p-Isopropyltoluene	ND	0.50	"							
Methylene chloride	ND	0.50	"							
4-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	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							

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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 & 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	
Toluene	18.1	0.50	"	20.0		90	60-137	0.9	25	
Trichloroethene	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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COC #:

Notes and Definitions

QS-HI	Surrogate recovery was greater than the upper control limit. A reanalysis was not performed since the analytes associated with the surrogate were not detected.
QS-4	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QRL-4	The reporting limits for this analysis are elevated due to sample foaming.
QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
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 LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

September 18, 2015

CLS Work Order #: CYI0463
COC #:

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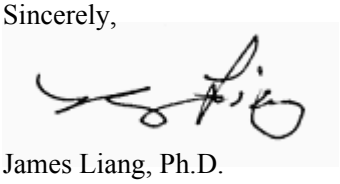
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

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

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

Tetra Tech Geo
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 #: CYI0463
COC #:

CALIFORNIA LABORATORY SERVICES CHAIN OF CUSTODY

CLS ID. NO. CYI0463 (1 of 1)

Report To:
Tetra Tech Inc. 2969 Prospect Park Dr.
Rancho Cordova, CA 95670
Project Manager: Tim Costello (timothy.costello@tetratech.com)
Project Name: Terramar – 5100 Broadway
Sampled By: Keith Hoofard/Brian Strand
Job Description: 5100 Broadway – Soil Cuttings Profiling from DC-SB-15 thru DC-SB-26
August 31, 2015 Addendum Work Plan
Site Location: 5100 Broadway Oakland, CA

Client Job Number: 117-7429001.06
Destination Laboratory:
☒ CLS (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA
95742
www.californialab.com
☐ OTHER

ANALYSIS REQUESTED

GEOTRACKER
EDF REPORT ☐ YES ☒ NO
GLOBAL ID.
FIELD CONDITIONS:

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	CONTAINER MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	TPH-g / VOCs Full Scan (8260B)		TPH-d / mo (8015M w/ SGT)	LUFT 5 Metals (6010)					TURNAROUND TIME IN DAYS 1	2	3	5	SPECIAL INSTRUCTIONS
9-10-15	1500	DC-SOILPILE-1		SOIL	1	JAR	3	X		X	X								X	

INVOICE TO:
PO#
QUOTE#

SUSPECTED CONSTITUENTS
SAMPLE RETENTION TIME
PRESERVATIVES (1) HCL (2) HNO_3 (3) = COLD (4)= H_2SO_4

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
Keith Hoofard	Keith Hoofard/Tetra Tech	9/11/15 0850	Bill Schmier	Bill Schmier Tetra Tech
Bill Schmier	Bill Schmier Tetra Tech	9/11/15 1100		

RECEIVED AT LAB BY: DATE/TIME: 9-11-15 1100 CONDITIONS/COMMENTS:

SHIPPED BY: ☐ FED EX ☐ UPS ☒ OTHER HAND DELIVERED AIR BILL #

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Project: Terramar 5100 Broadway
Project Number: 117-7429001.06
Project Manager: Tim Costello

CLS Work Order #: CYI0463
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: 09/11/15 11:00									**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*

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Project: Terramar 5100 Broadway
Project Number: 117-7429001.06
Project Manager: Tim Costello

CLS Work Order #: CYI0463
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: 09/11/15 11:00									
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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Project: Terramar 5100 Broadway
Project Number: 117-7429001.06
Project Manager: Tim Costello

CLS Work Order #: CYI0463
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: 09/11/15 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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Project: Terramar 5100 Broadway
Project Number: 117-7429001.06
Project Manager: Tim Costello

CLS Work Order #: CYI0463
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: 09/11/15 11:00									
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 (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	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	

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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: 09/11/15 11:00									
Bromoform	ND	5.0	µg/kg	1	CY06319	"	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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Project: Terramar 5100 Broadway
Project Number: 117-7429001.06
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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: 09/11/15 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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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
Batch CY06299 - CA LUFT - orb shaker										
Blank (CY06299-BLK1)				Prepared & 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 & 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 & 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)	**Source: CYI0463-01**			Prepared & 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)	**Source: CYI0463-01**			Prepared & 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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COC #:

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										
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)	**Source: 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)	**Source: 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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COC #:

TPH-Gasoline by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CY06319 - EPA 5030 Soil MS										
Blank (CY06319-BLK1)				Prepared & Analyzed: 09/14/15						
Gasoline	ND	0.20	mg/kg							
Surrogate: Toluene-d8	*0.0275*		*"*	*0.0300*		*92*	*65-135*			
LCS (CY06319-BS1)				Prepared & Analyzed: 09/14/15						
Gasoline	2.02	0.20	mg/kg	2.00		101	65-135			
Surrogate: Toluene-d8	*0.0320*		*"*	*0.0300*		*107*	*65-135*			
LCS Dup (CY06319-BSD1)				Prepared & Analyzed: 09/14/15						
Gasoline	2.11	0.20	mg/kg	2.00		105	65-135	4	30	
Surrogate: Toluene-d8	*0.0335*		*"*	*0.0300*		*112*	*65-135*			
Matrix Spike (CY06319-MS1)	**Source: CYI0536-01**			Prepared: 09/14/15 Analyzed: 09/15/15						
Gasoline	2.19	0.20	mg/kg	2.00	0.229	98	63-124			
Surrogate: Toluene-d8	*0.0292*		*"*	*0.0300*		*97*	*65-135*			
Matrix Spike Dup (CY06319-MSD1)	**Source: CYI0536-01**			Prepared: 09/14/15 Analyzed: 09/15/15						
Gasoline	1.80	0.20	mg/kg	2.00	0.229	78	63-124	20	35	
Surrogate: Toluene-d8	*0.0294*		*"*	*0.0300*		*98*	*65-135*			

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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 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	"							
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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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 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	"							
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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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 CY06319 - EPA 5030 Soil MS										
Blank (CY06319-BLK1)				Prepared & 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 & 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 & 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)	**Source: CYI0536-01**			Prepared: 09/14/15 Analyzed: 09/15/15						
Benzene	9.02	5.0	µg/kg	20.0	ND	45	58-139			QM-7
Chlorobenzene	5.34	5.0	"	20.0	ND	27	62-134			QM-7
1,1-Dichloroethene	10.7	5.0	"	20.0	ND	53	53-152			
Toluene	6.43	5.0	"	20.0	ND	32	58-139			QM-7

Tetra Tech Geo
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 #: CYI0463
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 CY06319 - EPA 5030 Soil MS										
Matrix Spike (CY06319-MS1)	**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*			
Surrogate: 4-Bromofluorobenzene	*35.8*		*"*	*30.0*		*119*	*50-128*			

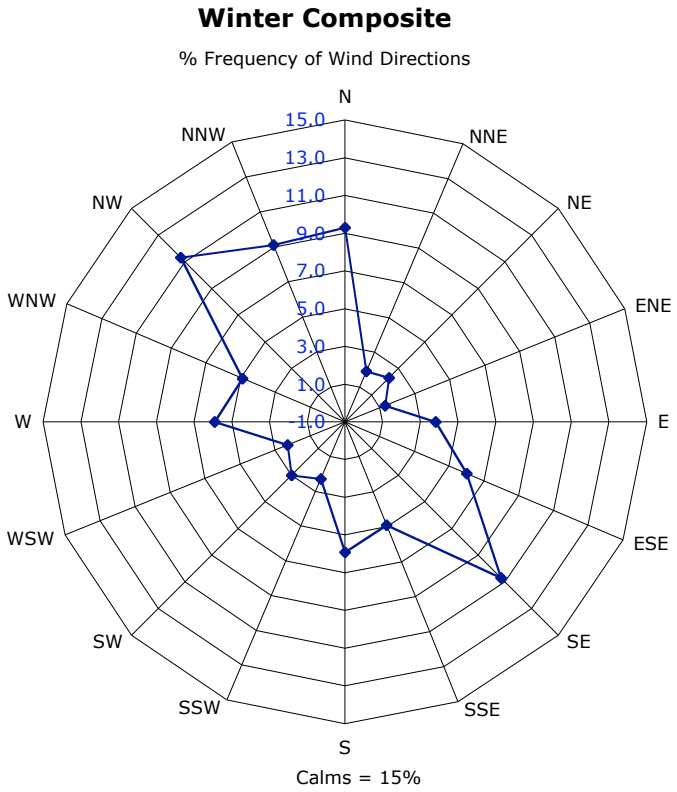
Tetra Tech Geo	Project: Terramar 5100 Broadway	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7429001.06	**CLS Work Order #: CYI0463**
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Notes and Definitions

QS-HI	Surrogate recovery was greater than the upper control limit. A reanalysis was not performed since the analytes associated with the surrogate were not detected.
QS-4	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-1	The RPD value for the sample duplicate or MS/MSD was outside of the QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery.
QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
EXT-3	The sample extract has undergone silica-gel clean-up, EPA Method 3630, which is specific to polar compound contamination.
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

APPENDIX F
Wind Direction References

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



Report Prepared by John P. Monteverdi, PhD, CCM

for

Mayacamas Weather Consultants

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.

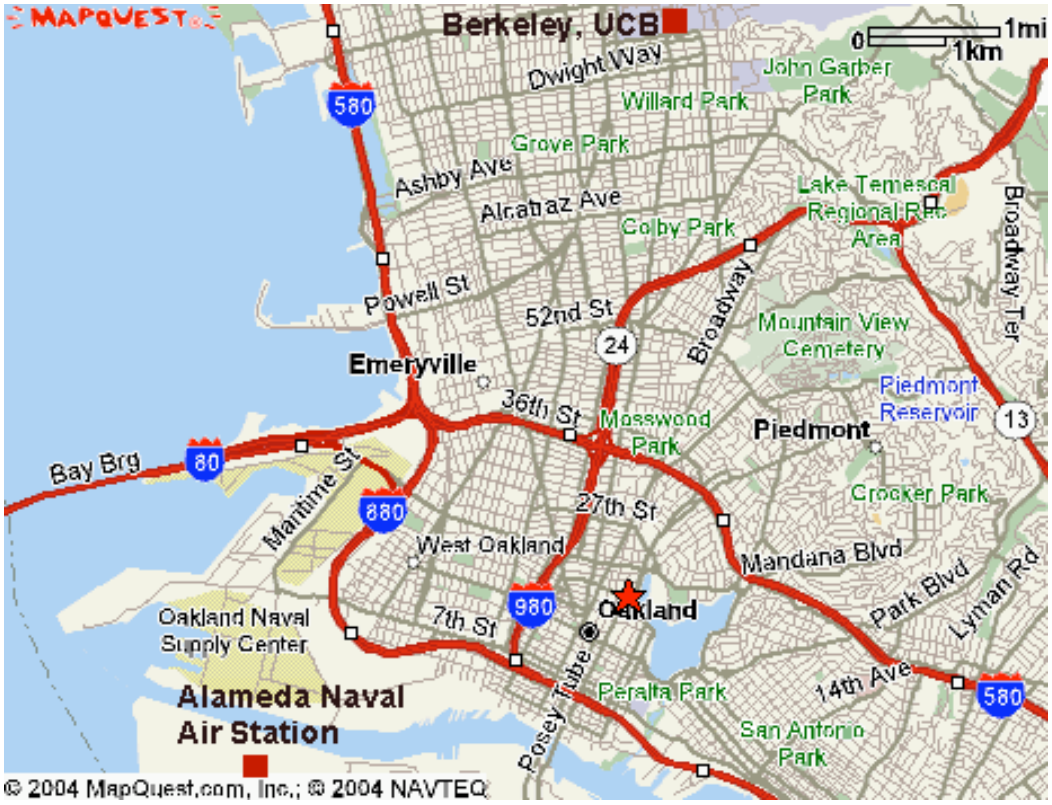


Figure 1: Location Map. Star marks approximate location of site for which information is estimated. Location of nearest long term wind site (Alameda Naval Air station) and rainfall information (Berkeley, UCB) shown by read squares.

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.

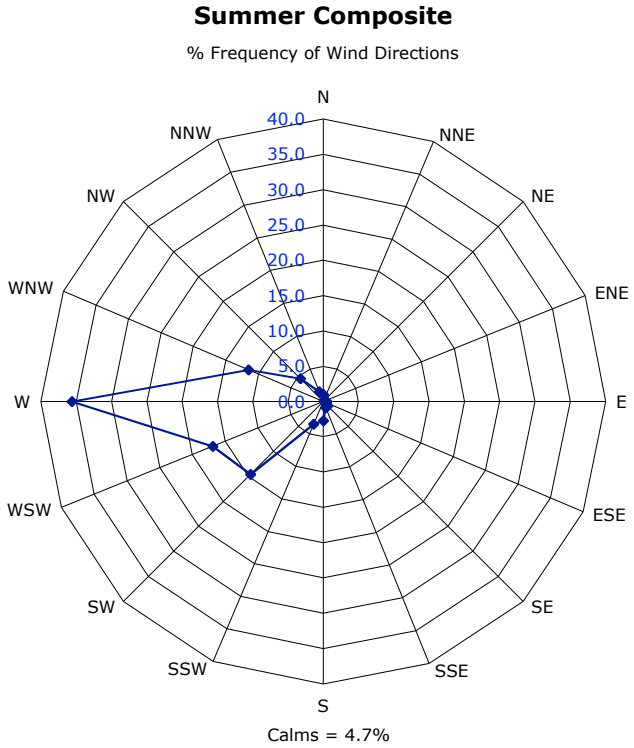


Figure 2(a): Summer Composite (June, July and August) Wind Rose. Wind direction defined as the direction from which wind is blowing (e.g., W = west wind...wind moving from west to east). Wind rose shows number of observations of a given wind direction as a percentage of the total hourly observations in 24 hours for each day of 3 month period.

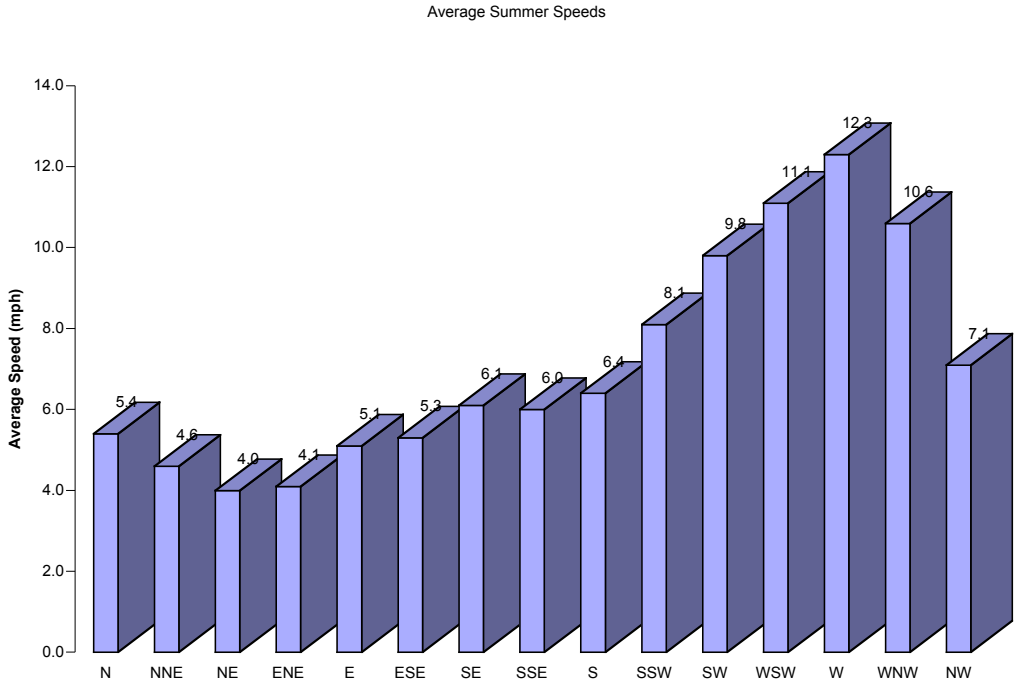


Figure 2(b): Summer Average Wind Speeds (mph) for each direction shown in Fig 2(a)

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.

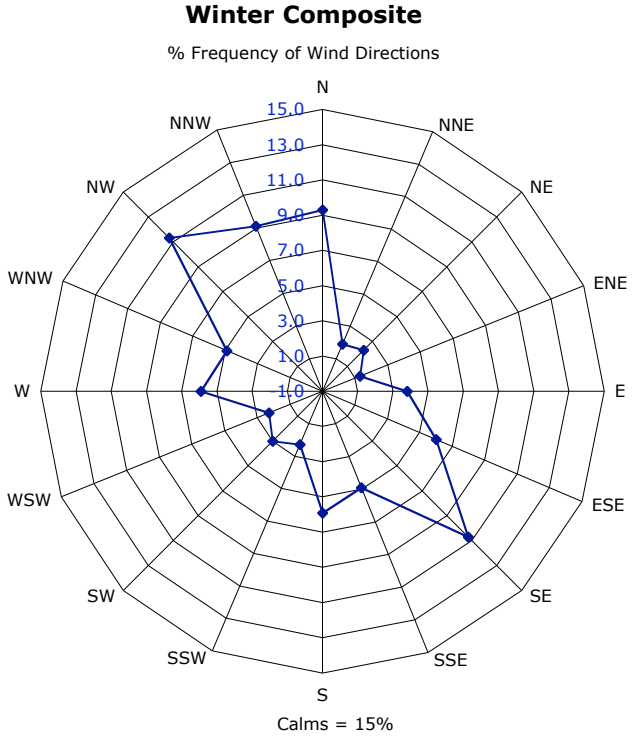


Figure 3(a): As in Fig 1(a) except for Winter Composite (December, January, February) Wind Rose.

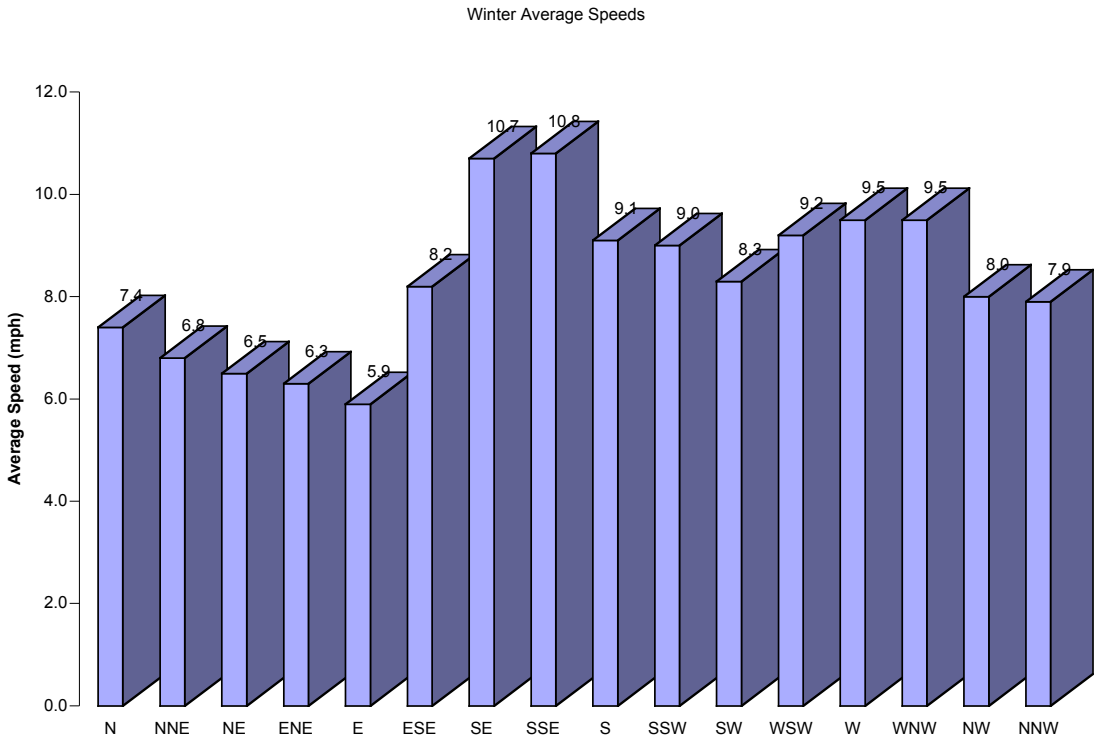


Figure 3(b): Winter Average Wind Speeds (mph) for each direction shown in Fig 3(a)

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.

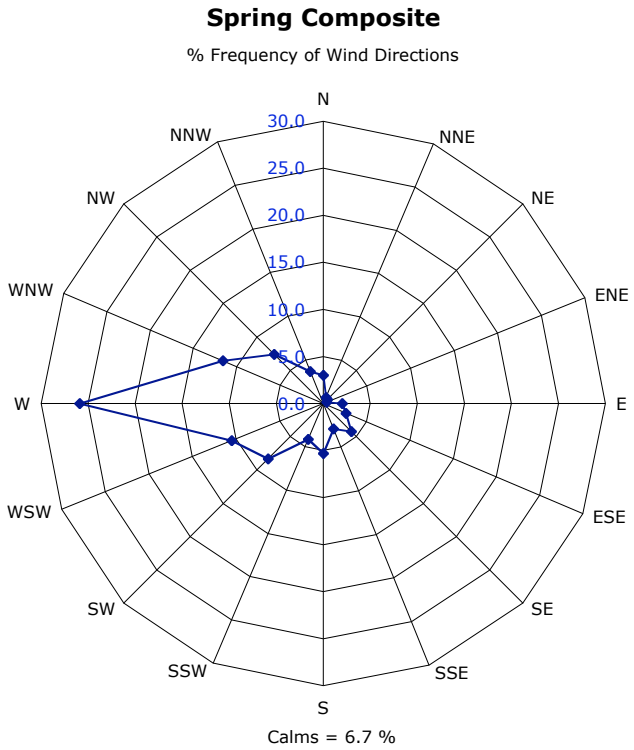


Figure 4(a): As in Fig 1(a) except for Spring Composite (March, April, May) Wind Rose.

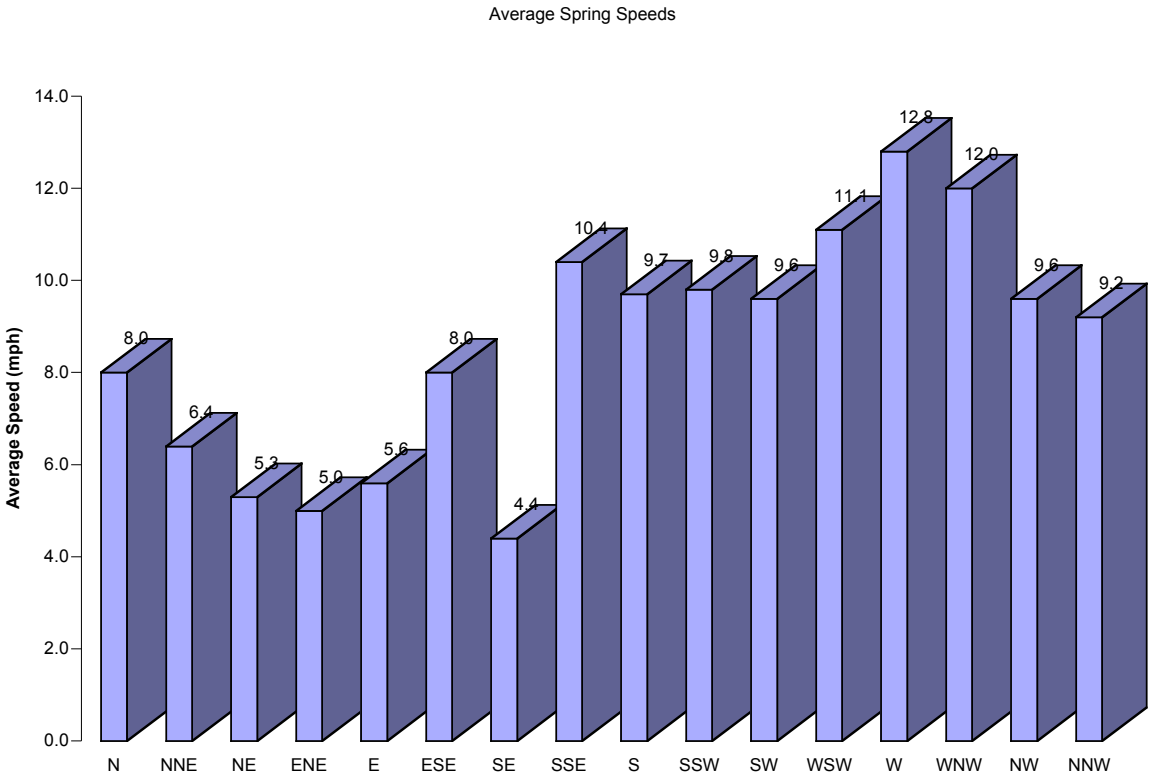


Figure 4(b): Spring Average Wind Speeds (mph) for each direction shown in Fig 4(a)

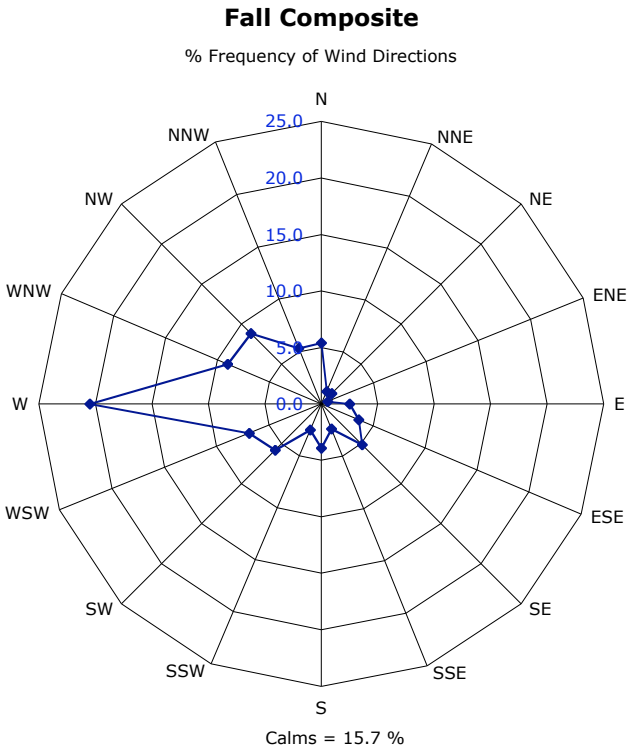


Figure 5(a): As in Fig 1(a) except for Fall Composite (September, October, November) Wind Rose.

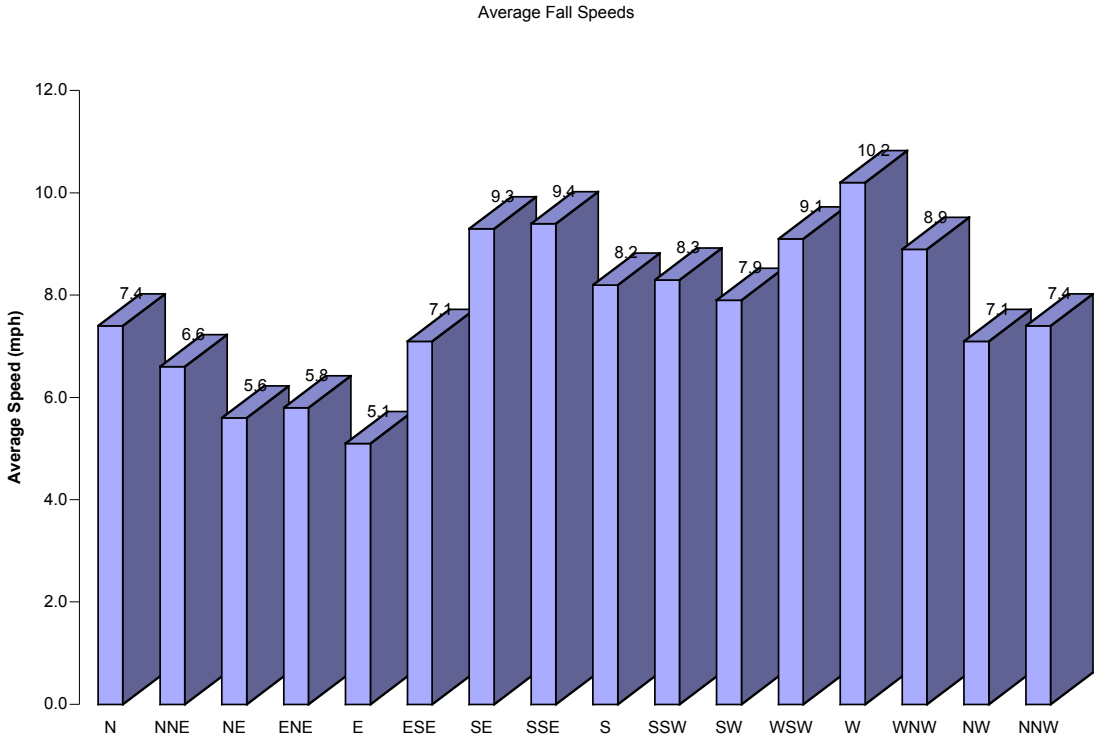


Figure 5(b): Spring Average Wind Speeds (mph) for each direction shown in Fig 5(a)

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	8.73	2.93	3.00	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	1.53	1.24	0.94	0.02	0.00	0.48	0.06	1.70	4.82	9.58	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)