September 27, 2017

Mr. Mark Detterman
Alameda County LOP (County)
1131 Harbor Bay Pkwy
Alameda, CA 94502

Re: Remedial Progress Report(Report #RO3155_REM_R_2017-09-27)
Former Four Seasons Cleaners Cleanup Program # RO0003155
13778 Doolittle Ave., San Leandro, CA

Dear Mr. Detterman:

Attached for your review is the Remedial Progress Report for the referenced site prepared by RRM, Inc. (RRM).

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document or report submitted on my behalf to ACDEH's FTP server and the SWRCB's GeoTracker website.

If you should have any questions or comments, please do not hesitate to contact me or RRM at 831-475-8141.

Sincerely,

Mr. Ernest Lee
Marina Faire Shopping Center
3271 S. Highland Dr., Ste #704
Las Vegas, Nevada 89109

September 27, 2017
RRM Project # IA756

Mr. Mark Detterman
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: ***Remedial Progress Report***
Former Four Seasons Cleaners
13778 Doolittle Drive
San Leandro, California

Dear Mr. Detterman:

This document, prepared by RRM, Inc. (RRM) on behalf of the Marina Faire, Shopping Center (Marina Faire) presents a data summary report of the remedial progress work conducted at the referenced site (Figure 1). Interim remedial measures were proposed in the September 19, 2016, *IRM, Vapor Mitigation, and FS Work Plan* (*Work Plan*) prepared by Well Test, Inc. (Well Test). Portions of the work proposed in the *Work Plan* were conditionally approved by the Alameda County Department of Environmental Health (ACDEH) in their March 17, 2017 letter and confirmation indoor air and sub-slab sampling were requested in the August 11, 2017 ACDEH letter; work described herein includes: interim remedial excavation; installation and short-term extraction from horizontal (SVE) piping; and sub-slab soil vapor and indoor air sampling at the adjacent tenant unit at 13770 Doolittle Drive (dentist office). Descriptions of the work and a summary of the results are presented below.

REMEDIAL EXCAVATION AND SVE AND SUB-SLAB PIPING INSTALLATION

Pre-Field Activities

Pre-field work included the following activities: 1) Submitted plans and specifications to the City of San Leandro Building and Safety Department and obtained a Building Permit for the excavation activities, 2) Obtained a drilling permit from the Alameda County Public Works for pre-excavation soil borings, 3) Prepared and submitted a Regulation 8, Rule 40 Notification Form to the Bay Area Air Quality Management District (BAAQMD), 4) Obtained approval to dispose of Non-RCRA Hazardous Waste soil at Clean Harbors Buttonwillow LLC Landfill facility in Buttonwillow, CA and Hazardous Waste soil at Clean Harbors Aragonite LLC facility in Grantsville, UT, 5) Marked the

work areas with white paint and contacted USA North at least 48-hours prior to digging or drilling, 6) Prepared a site-specific health and safety plan which was reviewed and signed by all field personnel and kept on site for the duration of the project, 7) Provided notice to the businesses located in the vicinity of the site, and 8) Notified City and County agencies of all field related scheduling. Copies of permits and notifications are included in Attachment A.

Pre-Excavation Soil Borings

On June 27, 2017, four soil borings (SB-1 through SB-4) were advanced using direct-push drilling equipment to a total depth of approximately 10 feet below ground surface (bgs) to further evaluate the extent of soil contamination for the remedial excavation; the boring locations are shown on Figure 2. Soil samples were collected continuously for lithologic description and samples from the approximate 5-foot and 10-foot depths from each boring were retained for laboratory analysis. Groundwater was not encountered in any of the soil borings during drilling. Soil samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8260B. Soil boring logs are included in Attachment B and field procedures are included in Attachment C.

Soil Excavation

The soil excavation area is shown on Figure 3. The excavation was conducted during the weeks of July 10 and July 17, 2017. RRM personnel performed the contaminated soil excavation and disposal work. The storefront of the former dry cleaner unit was removed to allow equipment access for soil removal and disposal. The area proposed for excavation was marked on the floor surface using white marking paint. The concrete floor area overlying the proposed excavation was saw cut and removed. A small excavator and skid-steer loader, each equipped with an exhaust scrubber, were used to remove concrete and excavate soil. Multiple ventilation fans and ducting were utilized at all times to vent the interior of the unit during excavation activities. Removal of soil with the highest concentrations was conducted on Tuesday July 18, 2017; the work was conducted outside business hours for the adjoining tenants (5:30 am to7:30 am) and a mobile high vacuum extraction unit with granular activated carbon treatment provided by Well Test, Inc. was also used to control fugitive emissions from within the excavation. Excavated soil was immediately loaded into covered soil bins pending removal for disposal. Covered soil bins were staged in the parking areas directly in front of the unit and were surrounded by construction fencing.

The soil areas proposed in the *Work Plan* were successfully excavated, except for the area of an encountered grade beam that extended through the excavation as shown on Figure 3; soil beneath the grade beam was left in-place to maintain structural integrity. The excavation extended to depths ranging from approximately 2 feet bgs to 7 feet bgs, with the excavation extending to the greater depths where historic soil data and field observations indicated the presence of contamination. During excavation, sewer laterals that are no longer in use within the excavation limits at the northeast of the unit were removed and a former floor drain trap was discovered (Figure 2); the floor drain trap assembly was also removed.

A sample of groundwater that infiltrated the 7-foot deep excavation (PIT #1) was collected and submitted for laboratory analysis. The groundwater sample was analyzed for halogenated VOCs (HVOCs) using EPA Method 8260B.

Air Monitoring

Air monitoring was performed in the breathing zone on an approximate hourly basis during soil disturbance and excavation activities at the interior of the former dry cleaner unit (AMP-1), the area of soil loading and soil bin storage (AMP-2), the adjoining dentist office (AMP-3), and the adjoining restaurant (AMP-4). As mentioned above, excavation of soil with potentially high contaminant concentrations was conducted outside of operating times for the strip mall tenants; therefore, when an adjoining unit was not occupied, air monitoring was not conducted in the unit. Air monitoring resumed in the unit once the business was open or employees/customers were present. Air was monitored using a field photo ionization detector (PID), PCE detector tubes (Model #GASTEC133LL 0.1 - 9 ppm), trichloroethene (TCE) detector tubes (Model #GASTEC132LL 0.125 – 8.8 ppm), and a carbon monoxide meter. The information was used to make decisions about upgrading personal protection equipment and/or implementing additional engineering controls. The action levels in the table below were used for reference during the excavation activities.

Chemical of Concern	Monitoring Frequency	Action Level Cal-OSHA PEL	Actions
1) PCE, TCE 2) 1,1-DCE 3) Vinyl Chloride 4) CO	Beginning of tasks with potential for exposure and hourly afterward.	1.) PCE, TCE - 25 ppm 2.) 1,1-DCE - 1 ppm 3.) Vinyl Chloride - 1 ppm 4.) CO - 25 ppm	1) Require respiratory protection for workers in these areas. 2) Upgrade engineering controls to control dust 3) For CO, immediately move to fresh air; upgrade ventilation.

Transportation and Landfill Disposal

Covered soil bins were loaded onto trucks provided by Clean Harbors and Belshire Environmental, licensed hazardous waste haulers. Soil was hauled to and disposed at Clean Harbors Buttonwillow, CA and Aragonite, UT Landfills. Each load of soil was accompanied by a completed Uniform Hazardous Waste Manifest. Field screening indicated that there were potentially very high concentrations in shallow soil adjacent to the former drain and sump. Excavation work was temporarily stopped upon discovery, additional health safety controls were added, and all soils from this area were segregated in a separate covered soil bin. Subsequent sample results indicated that concentrations exceeded the existing disposal profile, and separate disposal profile was obtained for the high concentration soils.

In all, a total of approximately 104 tons of contaminated soil were excavated, with approximately 88 tons disposed at the Buttonwillow Landfill, CA and approximately 16 tons disposed at the Aragonite Landfill, UT. The manifests are included in Attachment D.

Confirmation Soil Sampling and Analysis

Confirmation soil sample locations are shown in Figure 3. Confirmation soil samples were collected during the soil excavation work. In all, 9 sidewall and 11 bottom confirmation soil samples were collected, along with a soil sample (DRAIN-1') from approximately 1-foot beneath the former floor drain trap. The soil samples were collected from the bottom and sidewalls of the finished excavation at a frequency of approximately one sidewall sample per 10 linear feet of sidewall and one bottom sample per 200 square feet of surface area; where the excavation extended to approximately 2 feet bgs, only bottom samples were collected. Soil sample collection depths are summarized in Table 1. Samples were collected by driving a new brass liner into an undisturbed area of soil either from the excavation surface or from soil contained in the bucket of the excavator. Soil samples were immediately sealed with Teflon® tape and plastic end caps, labeled, and placed into a chilled storage container. Soil samples were analyzed for HVOCs using EPA Method 8260B.

Horizontal SVE and Sub-Slab Vent Piping

Lengths of 2-inch diameter Schedule 40 slotted horizontal SVE piping were installed at approximately 5 feet bgs in each of the 6.5-foot (SVE-2) and 7-foot (SVE-1) excavations. Crushed rock was placed in these excavations surrounding the SVE piping to approximately 4.5 feet bgs and covered with filter fabric. SVE-1 and SVE-2 are connected via one conveyance line and a standpipe for the horizontal SVE piping is located at the rear of the former dry cleaner unit for future use. The SVE vent piping legs are shown in Figure 4.

In addition, 2-inch diameter Schedule 40 slotted shallow sub-slab vent piping was installed over the excavation area at approximately 6 inches below finished grade within an approximately 12-inch thick ¾-inch crushed rock layer; the piping was subsequently removed by others and then replaced by RRM within an approximate 12-inch thick drain rock layer placed by the slab replacement contractor. The layout of the sub-slab vent piping is shown on Figure 5. A standpipe for the sub-slab vent piping is located at the rear of the former dry cleaner for planned sub-slab mitigation.

Backfill and Compaction

Following completion of soil excavation and sampling activities the entire excavation was backfilled to grade using clean imported fill material. The deeper excavations were backfilled with ¾-inch crushed rock to approximately 4.5 feet bgs for the horizontal SVE piping, followed by Class II base rock to approximately 12-inches below finished grade in all excavation areas. Base rock was compacted in approximate 6-inch lifts using a mechanical compaction device. To accommodate slab vent system piping, approximately 6-inches of ¾-inch crushed rock was placed on top of the compacted base rock. The original approximate 6-inch thick layer of ¾-inch crushed rock was at least partially removed by others during building improvement work and replaced with an equivalent layer of drain rock.

Resurfacing

Replacement of the slab in the former dry cleaner unit is scheduled for completion by the end of September 2017. Slab replacement will be completed by others as part of building improvement work currently under way.

SHORT-TERM SOIL VAPOR EXTRACTION

Following backfill of the excavation, the mobile granular activated carbon treatment unit equipped with a high-vacuum blower (300 cubic feet per minute, 15" Hg vacuum) provided by Well Test, Inc. was connected to the horizontal SVE piping to remove accessible contaminant vapor; the slab was not in place during extraction. On July 27 and 28, 2017 soil vapor was extracted from horizontal well SVE-1 for approximately 28 hours; on July 28, 2017 soil vapor was extracted from horizontal well SVE-2 for approximately 1 hour. During extraction, periodic measurements of the flow rate, field influent and effluent concentrations with a PID, and applied vacuum were conducted. During extraction from each horizontal SVE well, vacuum influence was measured in the other horizontal SVE well. Vapor samples were collected for laboratory analysis from the influent of the SVE unit at the start and end of extraction at SVE-1 and near the end of extraction at SVE-2; an effluent vapor sample was also collected at the start of extraction from SVE-1. Soil vapor samples were analyzed for VOCs using EPA Method TO-15. The mobile high-vacuum unit was operated under a portable permit issued for the equipment by BAAQMD.

CONFIRMATION SUB-SLAB AND INDOOR AND OUTDOOR AIR SAMPLING

Indoor and Outdoor Air Sampling

Indoor air sampling was conducted using the Department of Toxic Substances Control October 2011 *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance).* From August 30 to 31, 2017, two indoor air samples (IA-10-1 and IA-10-2) were collected at the unit adjacent to the former dry cleaner unit (13770 Doolittle Drive-dentist office) in the approximate locations shown on Figure 6. The samples were collected over a 24-hour period under typical business operation conditions with respect to customers and use of the tenant space. No changes to the normal HVAC operation were made prior to or during indoor air sampling in order to collect samples reflective of typical use of the unit. The indoor air sample locations were in the vicinity of the sub-slab soil vapor sample locations described below, where possible, and are generally consistent with previous indoor air sampling locations for the unit. Prior to conducting indoor air sampling, the *Department of Toxic Substances Control Appendix M – Building Screening Form* was used to screen for any existing indoor sources of contamination. The samples were collected away from doors and at a height similar to the breathing zone (approximately 3 to 5 feet above the floor), to the extent practical. One ambient outdoor background sample (Figure 7) was collected concurrently with the indoor samples in an upwind location, from a height of approximately 6 feet from the ground surface, at a distance equal to at

least approximately twice the height of the building, and away from any potential contamination sources or trees.

The indoor air samples were collected using 6-liter evacuated Summa® canisters that were pre-cleaned and supplied by a California-certified analytical laboratory; the canisters were equipped with a flow controller, particulate filter, and vacuum gauge. The flow controller on the canister was preset by the laboratory to collect an integrated 5-liter air sample at standard atmospheric conditions over a period of approximately 24 hours. After placement of the canisters in the sampling locations, air sampling was initiated by opening the valve on the canisters. Sample collection times, vacuum readings, and gauge numbers were recorded in the field. Field data sheets and the *Building Screening Form* are included in Attachment E.

The indoor and outdoor air samples were analyzed for TCE, PCE, cis-1,2-dichloroethene (DCE), trans-1,2-DCE,and vinyl chloride using EPA Method TO-15 Modified SIM

Sub-Slab Vapor Sampling

The sub-slab vapor sampling was conducted using the October 2011, *Vapor Intrusion Guidance Document* prepared by the State of California Department of Toxic Substances Control (DTSC) and July 2015, *Advisory – Active Soil Gas Investigations* prepared by DTSC and Regional Water Quality Control Board – Los Angeles. The sub-slab sampling locations were chosen based tenant approval and previously sampled locations; the sub-slab sample locations are shown on Figure 6.

On August 31, 2017, temporary brass sampling probes (SSV-1 and SSV-2) were installed to below the surface of the concrete slab within the slab fill material at the unit adjacent to the former dry cleaner (13770 Doolittle Drive-dentist office). The probes are constructed with a gas-tight fitting that is flush to the slab. Sampling occurred at least two hours after probe installation. The sampling procedure entails drawing a soil vapor sample through the probe and into a sample manifold. The sample manifold is outfitted with Swagelok-type valves, vacuum pressure gauges, a one-liter Summa™ sample canister, and six-liter Summa™ purge canister. A default of three purge volumes was used. The sampling flow rate was maintained at a rate between 100 millimeters/minute and 200 milliliters/minute. During sampling, helium was used as a tracer to test for leaks. This was accomplished by placing a shroud over the wellhead and sampling manifold, and filling the enclosed space with a mixture of helium and air; the helium concentration in the shroud was maintained at approximately 30%, as measured using a field helium detector. The sampling points were grouted in-place upon completion of sampling. Field data sheets are included in Attachment E.

The sub-slab soil vapor samples were analyzed for TCE, PCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride using EPA Modified Method TO-15, and for helium, oxygen, carbon dioxide, and methane using American Society for Testing and Materials (ASTM) Modified D-1946.

RESULTS

Subsurface Conditions

Only clay soils were encountered from ground surface to approximately 10 feet bgs, the total depth explored, in all the pre-excavation borings. No groundwater was encountered in the borings during drilling. These conditions are generally consistent with previous investigation results and with subsurface soil encountered during the excavation activities. Boring logs are included in Attachment B.

Soil Sample Analytical Results

Soil analytical data are summarized in Table 1, soil sample locations are shown on Figures 2 and 3, and certified analytical reports and chain-of-custody documentation are included in Attachment F.

Pre-Excavation Borings: PCE was reported in all the soil samples at concentrations ranging from 0.021 milligram/kilogram (mg/kg) at approximately 5 feet bgs in Boring SB-2 to 1.1 mg/kg at approximately 5 feet bgs in Boring SB-1. TCE was reported in soil from all the borings, but not in the 5-foot samples from borings SB-2 and SB-4; TCE concentrations ranged from 0.0062 mg/kg at approximately 10 feet bgs in Boring SB-4 to 0.059 mg/kg at approximately 5 feet bgs in Boring SB-1. Cis-1,2-DCE was reported in soil from borings SB-1 through SB-3 at concentrations ranging from 0.0062 mg/kg at approximately 10 feet in Boring SB-1 to 0.034 mg/kg at approximately 10 feet in Boring SB-3. Trans-1,2-DCE and vinyl chloride were not reported in any of the soil samples.

Excavation Confirmation Soil Samples: PCE and TCE were reported in all the soil samples. The highest concentrations of PCE and TCE were reported at 7,000 mg/kg and 190 mg/kg, respectively, in the soil sample collected beneath the former floor drain trap at approximately 1-foot; however, the soil was removed to approximately 7 feet bgs in this area.

In the sidewall samples, PCE was reported at concentrations ranging from 0.21 mg/kg at sample S-1-3’ to 8.9 mg/kg at sample S-5-3.5’, and TCE was reported at concentrations of 0.0037 mg/kg at sample S-1-3’ to 0.078 mg/kg at sample S-5-3.5’. Cis-1,2-DCE was reported in five of the nine sidewall samples at concentrations ranging from 0.024 mg/kg at sample S-7-2’ to 0.048 mg/kg at sample S-5-3.5’. Trans-1,2-DCE and vinyl chloride were not reported in any of the sidewall samples.

In the bottom samples, PCE was reported at concentrations ranging from 0.16 mg/kg at sample B-1-6.5’ to 2,300 mg/kg at sample B-3-7’, and TCE was reported at concentrations of 0.033 mg/kg at sample B-13-2’ to 6.1 mg/kg at sample B-3-7’. Cis-1,2-DCE was reported in all, but two of the bottom samples at concentrations ranging from an estimated concentration of 0.0015 mg/kg at sample B-16-2’ to 1.8 mg/kg at sample B-3-7’. Trans-1,2-DCE and vinyl chloride were not reported in any of the bottom samples.

Groundwater Analytical Results

PCE and TCE were reported in the groundwater sample from the excavation at 2,300 micrograms per liter (ug/L) and 120 ug/L, respectively. Cis-1,2-DCE was reported at 5.9 ug/L and trans-1,2-DCE was reported at 0.7 ug/L. Groundwater analytical data are summarized in Table 2 and certified analytical reports and chain-of-custody documentation are included in Attachment F.

Air Monitoring Results

VOCs, PCE, and/or TCE were detected by air monitoring devices in the former dry cleaner unit (AMP-1) during the excavation activities on July 13, 14, and 18, 2017; none of the monitoring compounds were detected at any of the other monitoring points during these times and/or the work was conducted outside of the business hours for the adjoining tenants when the units were unoccupied. Field personnel used respiratory protection when VOCs, PCE, and/or TCE were detecting by the air monitoring devices. Air monitoring logs are included in Attachment G.

Short-Term Soil Vapor Extraction Results

During extraction from horizontal well SVE-1 the flow rate ranged from 125 cubic feet per minute (cfm) to 170 cfm at an applied vacuum of 0.5”Hg. The measured influent PID readings ranged from 222 parts per million by volume (ppmv) at the start of extraction to 8.24 ppmv near the end of extraction. PCE and TCE were reported at 1.8 ppmv and 1.4 ppmv, respectively, in the influent sample collected at the start of extraction and were reported at 7.5 ppmv and 0.33 ppmv near the end. PCE mass removal rates at SVE-1 ranged from 0.14 pound per day to 0.79 pound per day and an estimated 0.5 pound of PCE was removed from the subsurface over the 28-hour operation interval.

During extraction from horizontal well SVE-2 the flow rate was maintained at 170 cfm at an applied vacuum of 0.5”Hg. The measured influent PID readings ranged from 3.45 ppmv at the start of extraction to 3.28 ppmv near the end of extraction. PCE and TCE were reported at 2.9 ppmv and 0.035 ppmv, respectively, in the influent sample collected during extraction. The PCE mass removal rate at SVE-2 was 0.3 pound per day and an estimated 0.02 pound of PCE was removed from the subsurface over the 1-hour operation interval.

No vacuum influence was measured at horizontal well SVE-2 during extraction from horizontal well SVE-1 at 0.5”Hg; and similarly no influence was measured at SVE-1 during extraction from SVE-2 at 0.5”Hg. As mentioned previously, the concrete slab was not in place during the SVE operation.

The granular activated carbon treatment unit was effective for treatment of the extracted vapor; no VOCs were reported in the effluent soil vapor sample collected on July 27, 2017 and the discharge from the treatment unit satisfied BAAQMD emission limitations. The report of SVE activities is included in Attachment H.

While lab analytical data show acceptable levels of contaminant mass removal were achieved over the operation period, additional testing should be conducted with the concrete slab in place and over a longer period to determine if SVE is a viable remediation alternative.

Confirmation Sub-Slab and Indoor Air Sampling Results

Sub-Slab Sample Results: PCE and TCE were reported in both the sub-slab vapor samples (SSV-1 and SSV-2). PCE was reported at 30,000 micrograms per cubic meter (ug/m^3) at SSV-1 and 49,000 ug/m^3 at SSV-2, and TCE was reported at 500 ug/m^3 at SSV-1 and 830 ug/m^3 at SSV-2; cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride were not reported the samples. Carbon dioxide and methane were not reported in the samples. Oxygen was reported at concentrations of 16% and 17%. Helium was reported in SSV-1 at 2.0% and in SSV-2 at 2.7%; these concentrations represent an estimated 6.6% leak in SSV-1 and 9.1% leak in SSV-2 based on 30% helium in the shroud for the sub-slab samples. DTSC guidance indicates up to a 5% leak is acceptable, but concurrent indoor air samples were also collected so the data is considered useful for evaluation of concentrations beneath the slab. Sub-slab soil vapor data are summarized in Table 3 and certified analytical reports and chain-of-custody documentation are included in Attachment F.

Indoor Air Sample Results: Suspect products noted in the dentist office at 13770 Doolittle Drive prior to indoor air sampling included a tartar and cement remover (L&R Ultrasonics 232), a disinfectant (Sanitex Plus), and an aerosol cleaner (Goof Off); none of these products were listed as containing PCE or, TCE. The wind direction was predominately out of the west-northwest. The DTSC *Building Screening Form* is included in Attachment E.

Only PCE was reported in both the indoor air samples (IA-10-1 and IA-10-2) and in the outdoor sample (OA). PCE was reported at 680 ug/m^3 at IA-10-1, at 450 ug/m^3 at IA-10-2, and at an estimated concentration of 0.38 ug/m^3 at OA. TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride were not reported in any of the indoor samples or the outdoor sample. Indoor air data are summarized in Table 4 and certified analytical reports and chain-of-custody documentation are included in Attachment F.

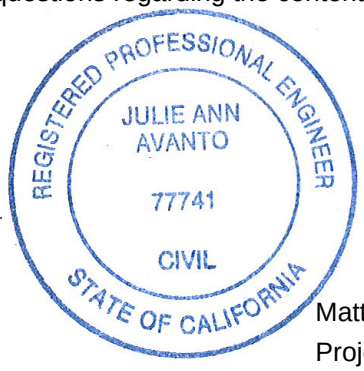
OTHER COMPLETED/SCHEDULED WORK

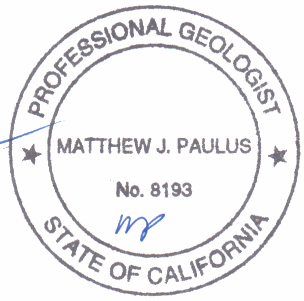
- Given the uncertainty of the sewer pathway form the former dry cleaner, a work plan to conduct video location/inspection of the sanitary sewer and real-time delineation of the soil vapor plume was submitted on August 31, 2017.
- Available site documentation requested by ACDEH was submitted on September 15, 2017.
- Four shallow step-out soil borings were completed within the former dry cleaner unit on September 19, 2017 to approximately 25 feet bgs to further define the extent of high concentration soil contamination discovered during the soil excavation in the vicinity of soil sample B-3-7'. Soil and groundwater samples were collected for laboratory analysis from each of the borings.

- The slab in the former dry cleaner unit is scheduled for replacement by the end of September 2017.
- Public and tenant notifications will be submitted to ACDEH on October 2, 2017.
- The CPT/MIP investigation work proposed in our July 31, 2017 *Work Plan Addendum* is tentatively scheduled for October 2017.

Should you have any questions regarding the contents of this document, RRM can be reached at (831) 475-8141.

Sincerely,
RRM, Inc.





Julie Avanto
Project Engineer
RCE 77741

Matthew Paulus
Project Geologist
PG 8193

Attachments:
Table 1 -Soil Sample Analytical Results
Table 2 - Groundwater Analytical Results
Table 3 - Soil Vapor Analytical Results
Table 4 - Indoor Air Analytical Results
Figure 1 - Site Location Map
Figure 2 – Site Map with Boring Locations
Figure 3 – Excavation Site Map
Figure 4 – Site Map with Horizontal SVE Well Locations
Figure 5 - Site Map with Sub-Slab Vent Piping
Figure 6 - Site Map with Indoor Air and Sub-Slab Samples
Figure 7 - Extended Site Map with Outdoor Sample Location
Attachment A - Permits and Notifications
Attachment B - Boring Logs
Attachment C - Field and Laboratory Procedures
Attachment D - Uniform Hazardous Waste Manifests
Attachment E - Field Data
Attachment F - Certified Analytical Reports and Chain-of-Custody
Attachment G - Air Monitoring Log
Attachment H - Soil Vapor Extraction Report - Well Test, Inc.

Table 1
Soil Sample Analytical Results
Former Four Season Cleaners
13778 Doolittle Drive
San Leandro, California

Sample	Date	Depth (feet, bgs)	1,1-DCE (mg/kg)	PCE (mg/kg)	TCE (mg/kg)	cis-1,2-DCE (mg/kg)	trans-1,2-DCE (mg/kg)	vinyl chloride (mg/kg)	Notes
Pre-Excavation Borings									
SB-1-4.5-5'	06/27/17	4.5-5	<0.0012	**1.1**	**0.059**	**0.021**	<0.0014	<0.0016	
SB-1-9.5-10'	06/27/17	9.5-10	<0.0012	**0.16**	**0.023**	**0.0062**	<0.0014	<0.0016	
SB-2-4.5-5'	06/27/17	4.5-5	<0.0012	**0.021**	<0.0011	<0.0013	<0.0014	<0.0016	
SB-2-9.5-10'	06/27/17	9.5-10	<0.0012	**0.65**	**0.048**	**0.012**	<0.0014	<0.0016	
SB-3-4.5-5'	06/27/17	4.5-5	<0.0012	**0.47**	**0.025**	**0.022**	<0.0014	<0.0016	
SB-3-9.5-10'	06/27/17	9.5-10	<0.0012	**0.35**	**0.032**	**0.034**	<0.0014	<0.0016	
SB-4-4.5-5'	06/27/17	4.5-5	<0.0012	**0.038**	<0.0011	<0.0013	<0.0014	<0.0016	
SB-4-9.5-10'	06/27/17	9.5-10	<0.0012	**0.29**	**0.0062**	<0.0013	<0.0014	<0.0016	
Confirmation Soil Samples - Sidewall of Excavation									
S-1-3'	07/14/17	3	<0.0012	**0.21**	**0.0037**	<0.0013	<0.0014	<0.0016	
S-2-3'	07/14/17	3	<0.0012	**0.26**	**0.0062**	<0.0013	<0.0014	<0.0016	
S-3-3'	07/14/17	3	<0.0012	**0.24**	**0.0043J**	<0.0013	<0.0014	<0.0016	
S-4-3'	07/14/17	3	<0.0012	**0.36**	**0.012**	<0.0013	<0.0014	<0.0016	
S-5-3.5'	07/18/17	3.5	<0.0012	**8.9**	**0.078**	**0.048**	<0.0014	<0.0016	
S-6-3.5'	07/18/17	3.5	<0.0012	**3.4**	**0.027**	**0.039**	<0.0014	<0.0016	
S-7-2'	07/18/17	2	<0.0012	**0.44**	**0.065**	**0.024**	<0.0014	<0.0016	
S-8-3.5'	07/18/17	3.5	<0.0012	**2.8**	**0.048**	**0.036**	<0.0014	<0.0016	
S-9-3.5'	07/18/17	3.5	<0.0012	**4.6**	**0.038**	**0.034**	<0.0014	<0.0016	
Confirmation Soil Samples - Bottom of Excavation									
DRAIN-1'	07/14/17	1	**0.025**	**7,000**	**190**	<2.6	**0.27**	<0.0080	1
B-1-6.5'	07/14/17	6.5	<0.0012	**0.16**	**0.0071**	<0.0013	<0.0014	<0.0016	
B-2-5'	07/14/17	5	<0.0012	**1.9**	**0.022**	**0.0048J**	<0.0014	<0.0016	
B-3-7'	07/18/17	7	<0.12	**2,300**	**6.1**	**1.8**	<0.14	<0.16	
B-4-4'	07/18/17	4	<0.0012	**1.4**	**0.032**	**0.015**	<0.0014	<0.0016	
B-10-2'	07/18/17	2	<0.0012	**3.4**	**0.057**	**0.0063**	<0.0014	<0.0016	
B-11-2'	07/18/17	2	<0.0012	**0.36**	**0.037**	<0.0013	<0.0014	<0.0016	
B-12-2'	07/18/17	2	<0.0012	**0.29**	**0.029**	**0.0042J**	<0.0014	<0.0016	
B-13-2'	07/18/17	2	<0.0012	**0.26**	**0.033**	**0.0020J**	<0.0014	<0.0016	
B-14-2'	07/18/17	2	<0.0012	**0.43**	**0.052**	**0.0025J**	<0.0014	<0.0016	
B-15-2'	07/18/17	2	<0.0012	**3.1**	**0.049**	**0.0036J**	<0.0014	<0.0016	
B-16-2'	07/18/17	2	<0.0012	**0.47**	**0.036**	**0.0015J**	<0.0014	<0.0016	
2016 Environmental Screening Levels (ESLs) Shallow Soils, Commercial/Industrial			***430***	***2.8***	***8.5***	***96***	***590***	***0.16***	

Table 1

Soil Sample Analytical Results

Former Four Season Cleaners

13778 Doolittle Drive

San Leandro, California

Sample	Date	Depth (feet, bgs)	1,1-DCE (mg/kg)	PCE (mg/kg)	TCE (mg/kg)	cis-1,2-DCE (mg/kg)	trans-1,2-DCE (mg/kg)	vinyl chloride (mg/kg)	Notes

Notes

mg/kg	= milligrams/kilogram
PCE	= tetrachloroethylene
TCE	= trichloroethylene
1,1-DCE	= 1,1-dichloroethene
cis-1,2-DCE	= cis-1,2-dichloroethene
trans-1,2-DCE	= trans-1,2-dichloroethene
<	= less than the reporting limit shown
J	= estimated concentration
1	= 0.011J mg/kg chloroform and 0.011J mgkg 1,3-dichlorobenzene also reported in sample
	= soil in vicinity of sample excavated

Table 2
Groundwater Analytical Results
Former Four Season Cleaners
13778 Doolittle Drive
San Leandro, California

Sample	Date	Well Elevation (feet msl)	Depth to Groundwater (feet, TOC)	Groundwater Elevation (feet msl)	Choro-form (µg/L)	1,1-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	vinyl chloride (µg/L)	Notes
Excavation Groundwater Sample												
PIT #1	04/20/10	NA	NA	NA	**0.26J**	**0.36J**	**2,300**	**120**	**5.9**	**0.65**	<0.12	
*Groundwater Environmental Screening Levels**					*2.3*	*3.2*	*3.0*	*5.0*	*6.0*	*10*	*0.61*	

Notes

µg/L = micrograms/liter
PCE = tetrachloroethene
TCE = trichloroethene
cis-1,2-DCE = cis-1,2-dichloroethene
trans-1,2-DCE = trans-1,2-dichloroethene
1,1-DCE 1,1-dichloroethene
< = less than the method detection limit shown
msl = mean sea level, datum point
TOC = top of casing
NA = not available or applicable
J = Estimated concentration; compound detected above method limit, but below lab reporting limit
* = California Regional Water Quality Control Board, San Francisco Bay Region, *Summary of Groundwater ESLs*. February 2016.

Table 3

Soil Vapor Analytical Results

Former Four Season Cleaners

13778 Doolittle Drive

San Leandro, California

Sample	Date	Depth[1] (feet)	PCE (µg/m3)	TCE (µg/m3)	cis-1,2-DCE (µg/m3)	trans-1,2-DCE µg/m3	vinyl chloride (µg/m3)	helium (%)	carbon dioxide (%)	oxygen (%)	methane (%)	notes:
13770 Doolittle Drive (Dentist Office)												
SSV-1	08/31/17	Sub-Slab	**30,000**	**500**	<62	<62	<40	**2.0**	<0.26	**16**	<0.26	
SSV-2	08/31/17	Sub-Slab	**49,000**	**830**	<180	<180	<120	**2.7**	<0.23	**17**	<0.23	
*Commercial/Industrial ESLs**			*2,100*	*3,000*	*42,000*	*260,000*	*160*	--	--	--	--	--

Notes:

µg/m3 = micrograms/cubic meter

PCE = tetrachloroethene

TCE = trichloroethene

cis-1,2-DCE = cis-1,2-dichloroethene

trans-1,2-DCE = trans-1,2-dichloroethene

< = less than the method detection limit shown

ESLs = environmental screening levels

* = California Regional Water Quality Control Board, San Francisco Bay Region, Summary of Vapor ESLs, February 2016

Table 4

Indoor Air Analytical Results

Former Four Season Cleaners

13778 Doolittle Drive

San Leandro, California

Sample	Date	PCE (µg/m3)	TCE (µg/m3)	cis-1,2-DCE (µg/m3)	trans-1,2-DCE µg/m3	vinyl chloride (µg/m3)	notes:
13770 Doolittle Drive (Dentist Office)							
IA-10-1	08/31/17	**680**	<0.015	<0.0086	<0.017	<0.017	24-hour
IA-10-2	08/31/17	**450**	<0.015	<0.0086	<0.017	<0.017	24-hour
Outdoor Sample							
OA	08/31/17	**0.38J**	<0.015	<0.0089	<0.017	<0.018	24-hour
*Commercial/Industrial ESLs**		*2.1*	*3.0*	*35*	*260*	*0.16*	

Notes:

µg/m3 = micrograms/cubic meter
PCE = tetrachloroethene
TCE = trichloroethene
cis-1,2-DCE = cis-1,2-dichloroethene
trans-1,2-DCE = trans-1,2-dichloroethene
< = less than the method detection limit shown
J = estimated concentration
ESLs = environmental screening levels
* = California Regional Water Quality Control Board, San Francisco Bay Region, Summary of Vapor ESLs, February 2016

QUADRANGLE LOCATION

N

SCALE IN FEET

0 2,000

Ref. IA756/IA756-SLM.DWG
Base Map from TOPO!© NGH

PREPARED BY RRM ENVIRONMENTAL ENGINEERING GEOLOGY

SITE LOCATION MAP

FORMER FOUR SEASONS CLEANERS

13778 Doolittle Drive
San Leandro, California

FIGURE:
1
PROJECT:
IA756

N

SCALE IN FEET

0 10

APPROXIMATE LOCATION OF SANITARY SEWER; ACTUAL PATHWAY UNCERTAIN.
LOCATION TO BE UPDATED AS NEW INFORMATION IS OBTAINED

29
(E) STORAGE

(E) HOFBRAU DELI

17
BAR/LOUNGE
1855.844 SQ.FT

–
VACANT
1059.416 SQ.FT

REMOVED SUMPS AND
SEWER LINES

08
BREEZEWAY

STORAGE

SB–1

SB–2

LOCATION OF FORMER
DRY CLEANING MACHINE

LOCATION OF FORMER
SEWER TRAP

04
(E) KITCHEN

14
COMPUTER
1317.680 SQ.FT

STORAGE

SB–4

SB–3

31
TEA HOUSE

01
(E) DENTAL OFFICE

02
VACANT
1820 SQ.FT
(FORMER DRY CLEANER)

BATH

09
RESTAURANT
1256.080 SQ.FT

EXPLANATION

PRE–EXCAVATION SOIL BORING

STRUCTURE REMOVED

14
(E) CHINESE RESTAURANT
1262.387 SQ.FT

OFFICE

LOBBY

Ref. IA756/IA756–EXTENDED.DWG
Basemap from Hayashida Architects

PREPARED BY

RRM ENVIRONMENTAL ENGINEERING & GEOLOGY

SITE MAP with BORING LOCATIONS

FORMER FOUR SEASONS CLEANERS
13778 Doolittle Drive
San Leandro, California

FIGURE:
2
PROJECT:
IA756

N

SCALE IN FEET

0 10

AREA EXCAVATED TO 5' BGS

(E) STORAGE

29
(E) HOFBRAU DELI

17
BAR/LOUNGE
1855.844 SQ.FT

–
VACANT
1059.416 SQ.FT

0.24/0.0043
S-3-3'

0.16/0.0071
B-1-6.5'

S-2-3'
0.26/0.0062

S-4-3'
0.36/0.012

B-2-5'
1.9/0.022

0.21/0.0037
S-1-3'

APPROXIMATE LOCATION OF GRADE BEAM; AREA NOT EXCAVATED

08
BREEZEWAY

8.9/0.078
S-5-3.5'

STORAGE

S-9-3.5'
4.6/0.038

7,000/190
DRAIN 1'

3.4/0.027
S-6-3.5'

AREAS EXCAVATED TO 6.5'-7' BGS

S-8-3.5'
2.8/0.048

B-3-7'
2,300/6.1

B-14-2'
0.43/0.052

AREA EXCAVATED TO 4' BGS

B-4-4'
1.4/0.032

B-15-2'
3.1/0.049

0.44/0.065

B-12-2'
0.29/0.029

S-7-2'

B-16-2'
0.47/0.036

B-10-2'
3.4/0.057

B-13-2'
0.26/0.033

B-11-2'
0.36/0.037

AREA EXCAVATED TO 1.5'-2' BGS

04
(E) KITCHEN

14
COMPUTER
1317.680 SQ.FT

STORAGE

31
TEA HOUSE

01
(E) DENTAL OFFICE

02
VACANT
1820 SQ.FT
(FORMER DRY CLEANER)

BATH

09
RESTAURANT
1256.080 SQ.FT

14
(E) CHINESE RESTAURANT
1262.387 SQ.FT

OFFICE

LOBBY

EXPLANATION

0.36/0.012 PCE/TCE CONCENTRATION IN SOIL IN MILLIGRAMS PER KILOGRAM (mg/kg)

PCE TETRACHLOROETHENE

TCE TRICHLOROETHENE

EXCAVATION SOIL SAMPLE LOCATION

STRUCTURE REMOVED

Ref. IA756/IA756-EXTENDED.DWG
Basemap from Hayashida Architects

PREPARED BY

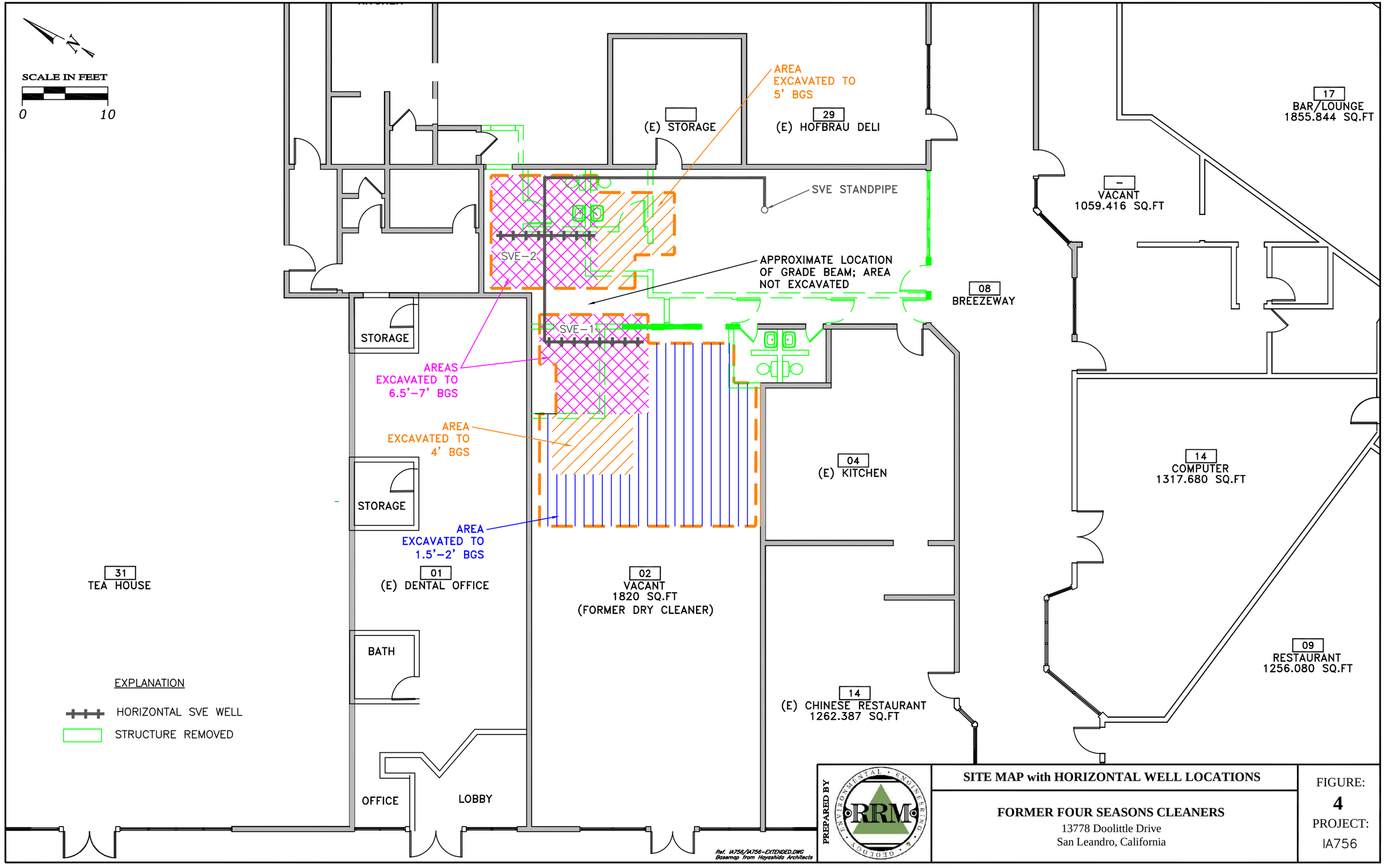
ENVIRONMENTAL · ENGINEERING · GEOLOGY

RRM

EXCAVATION SITE MAP

FORMER FOUR SEASONS CLEANERS
13778 Doolittle Drive
San Leandro, California

FIGURE:
3
PROJECT:
IA756



PREPARED BY

SITE MAP with HORIZONTAL WELL LOCATIONS

FORMER FOUR SEASONS CLEANERS
13778 Doolittle Drive
San Leandro, California

FIGURE:
4
PROJECT:
IA756

N

SCALE IN FEET

0 10

AREA EXCAVATED TO 5' BGS

(E) STORAGE

29
(E) HOFBRAU DELI

17
BAR/LOUNGE
1855.844 SQ.FT

–
VACANT
1059.416 SQ.FT

SUB-SLAB VENT STANDPIPE

APPROXIMATE LOCATION OF GRADE BEAM; AREA NOT EXCAVATED

08
BREEZEWAY

STORAGE

AREAS EXCAVATED TO 6.5'-7' BGS

AREA EXCAVATED TO 4' BGS

STORAGE

AREA EXCAVATED TO 1.5'-2' BGS

31
TEA HOUSE

01
(E) DENTAL OFFICE

02
VACANT
1820 SQ.FT
(FORMER DRY CLEANER)

SUB-SLAB VENT PIPING

04
(E) KITCHEN

14
COMPUTER
1317.680 SQ.FT

BATH

09
RESTAURANT
1256.080 SQ.FT

EXPLANATION

STRUCTURE REMOVED

14
(E) CHINESE RESTAURANT
1262.387 SQ.FT

OFFICE

LOBBY

Ref. IA756/IA756-EXTENDED.DWG
Basemap from Hayashida Architects

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RRM

SITE MAP with SUB-SLAB VENT PIPING

FORMER FOUR SEASONS CLEANERS
13778 Doolittle Drive
San Leandro, California

FIGURE:
5
PROJECT:
IA756

N

SCALE IN FEET

0 10

APPROXIMATE LOCATION OF SANITARY SEWER; ACTUAL PATHWAY UNCERTAIN.
LOCATION TO BE UPDATED AS NEW INFORMATION IS OBTAINED

(E) STORAGE

29
(E) HOFBRAU DELI

17
BAR/LOUNGE
1855.844 SQ.FT

–
VACANT
1059.416 SQ.FT

REMOVED SUMPS AND SEWER LINES

08
BREEZEWAY

STORAGE

IA-10-2 (8/30-31/17)	
INDOOR AIR	
PCE	450 ug/M3
TCE	<0.015 ug/M3

IA-10-2

LOCATION OF FORMER SEWER TRAP

SSV-2 (8/31/17)	
SUB-SLAB SOIL VAPOR	
PCE	49,000 ug/M3
TCE	830 ug/M3

SSV-2

STORAGE

LOCATION OF FORMER DRY CLEANING MACHINE

04
(E) KITCHEN

14
COMPUTER
1317.680 SQ.FT

31
TEA HOUSE

01
(E) DENTAL OFFICE

02
VACANT
1820 SQ.FT
(FORMER DRY CLEANER)

EXPLANATION

- INDOOR AIR SAMPLE LOCATION
- SUB-SLAB SOIL VAPOR SAMPLE LOCATION
- ug/M3 MICROGRAMS PER CUBIC METER
- PCE TETRACHLOROETHENE
- TCE TRICHLOROETHENE
- STRUCTURE REMOVED

BATH

SSV-1

SSV-1 (8/31/17)	
SUB-SLAB SOIL VAPOR	
PCE	30,000 ug/M3
TCE	500 ug/M3

09
RESTAURANT
1256.080 SQ.FT

14
(E) CHINESE RESTAURANT
1262.387 SQ.FT

IA-10-1 (8/30-31/17)	
INDOOR AIR	
PCE	680 ug/M3
TCE	<0.015 ug/M3

IA-10-1

OFFICE

LOBBY

Ref. IA756/IA756-EXTENDED.DWG
Basemap from Hayashida Architects

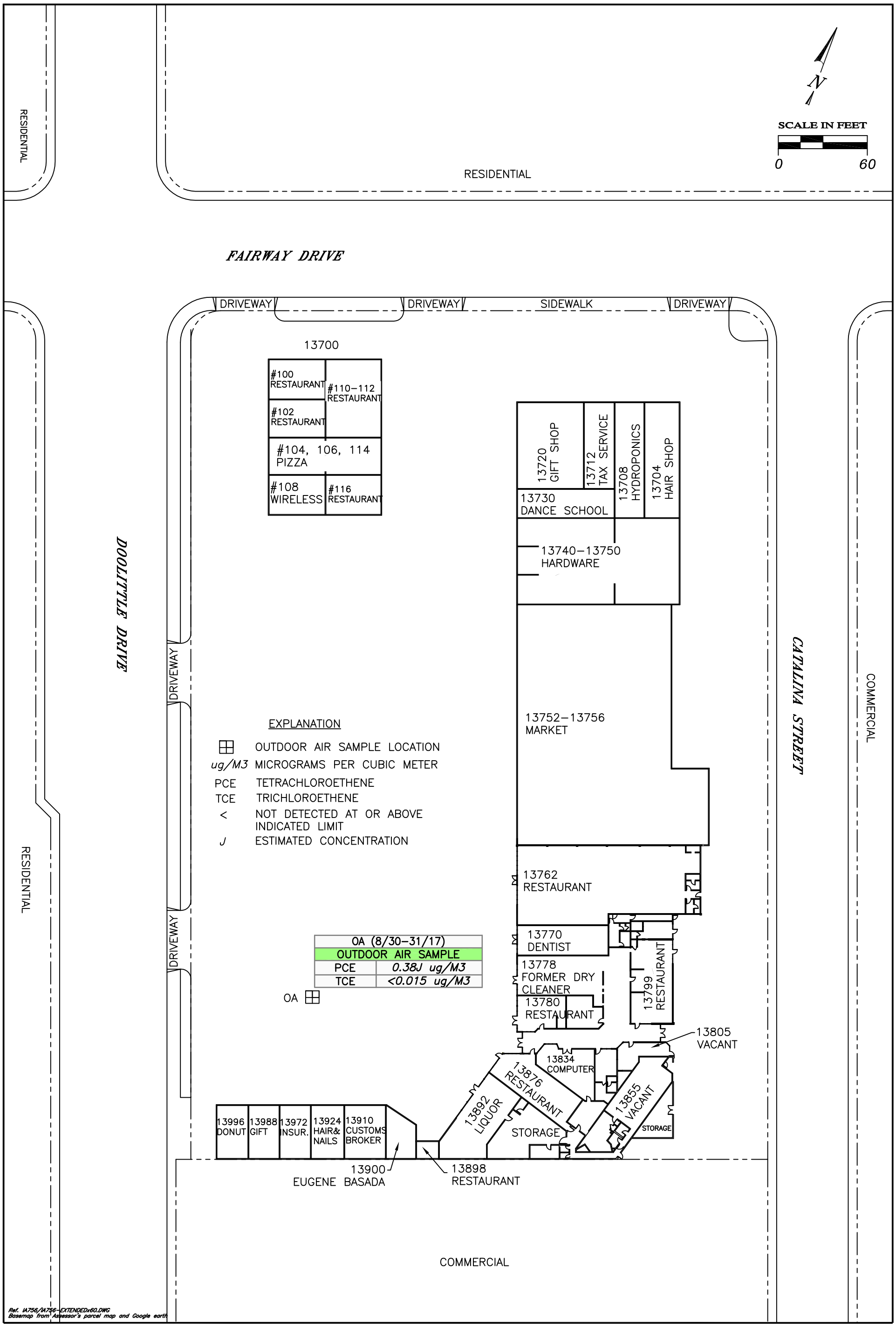
PREPARED BY

RRM ENVIRONMENTAL · ENGINEERING · GEOLOGY

SITE MAP with INDOOR AIR AND SUB-SLAB SAMPLES

FORMER FOUR SEASONS CLEANERS
13778 Doolittle Drive
San Leandro, California

FIGURE:
6
PROJECT:
IA756



PREPARED BY

EXTENDED SITE MAP with OUTDOOR SAMPLE LOCATION

FORMER FOUR SEASONS CLEANERS
13778 Doolittle Drive
San Leandro, California

FIGURE:
7
PROJECT:
IA756

A

PERMITS AND NOTIFICATIONS

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: 05/11/2017 By jamesy

Permit Numbers: W2017-0396
Permits Valid from 05/22/2017 to 05/23/2017

Application Id:	1493836539349	**City of Project Site:**	San Leandro
Site Location:	13778 Doolittle Drive, San Leandro- Former Four Seasons Cleaners		
Project Start Date:	05/22/2017	**Completion Date:**	05/23/2017
Assigned Inspector:	Contact Marcelino Vialpando at (510) 670-5760 or Marcelino@acpwa.org		
Applicant:	RRM, Inc. - Matt Kaempf 2560 Soquel Ave, Suite 202, Santa Cruz, CA 95062	**Phone:**	831-227-4719
Property Owner:	Ernest Lee (Marina Faire LP) 3271 S Highland Drive, Suite 704, Las Vegas, NV 89109	**Phone:**	702-369-9595
Client:	** same as Property Owner **		
Contact:	Matt Kaempf	**Phone:** **Cell:**	831-227-4719 831-227-4719

	Total Due:	$265.00
Receipt Number: WR2017-0222	**Total Amount Paid:**	$265.00
Payer Name : Remediation Risk Mgmt	Paid By: MC	**PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 8 Boreholes
Driller: Cascade Technical Services - Lic #: 938110 - Method: DPcpt **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2017-0396	05/11/2017	08/20/2017	8	2.00 in.	15.00 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. 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.

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. 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.

7. 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.

8. 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.

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.

Fact Sheet on Interim Remedial Measures

Four Seasons Cleaners

13778 [illegible]

[illegible]

[illegible] 3155

[illegible]

[illegible] HEALTH CARE SERVICES [illegible]

[illegible] 17

[illegible]

Summary

[illegible] 13788 [illegible] (Figure 1).

[illegible] 1

[illegible]

Background

[illegible]

[illegible] 55-[illegible]

Environmental Investigation Activities

[illegible]

Next Steps/IRMs

[illegible]

Timeline

[illegible]

How to Get More Information

[illegible]

[illegible]

For More Information

[illegible]

Glossary of Terms

Tetrachloroethylene — [illegible]

Soil-vapor— [illegible]

Volatile organic compounds (VOCs)— [illegible]

Interim remedial measures (IRMs) [illegible]

Soil vapor extraction ([illegible]) [illegible]

Air sparging ([illegible]) [illegible]

13778 Doolittle

City of San Leandro

Community Development – Division of Building & Safety

BUILDING PERMIT NUMBER B17-0799 RRM, INC.

Job Site Copy

JOB SITE INSPECTION RECORD – APPLICANT SHALL POST ON JOB SITE								
DATE	INSPECTOR	CODE		INSPECTION TYPE	DATE	INSPECTOR	CODE	INSPECTION TYPE
REQUIRED PRIOR TO FOUNDATION INSPECTION					"T" BAR INSPECTION			
UNDERGROUND INSPECTIONS - SITE							1410	MECHANICAL
			0210	SEWER			1420	ELECTRICAL
			0220	WATER			1430	BUILDING
			0240	PLUMBING	RE-ROOFS:			
			0250	ELECTRIC			1510	PRE-ROOF
DO NOT BACK FILL UNTIL ABOVE IS APPROVED							1520	STRUCTURAL
FOUNDATION INSPECTIONS:							1530	ROOF NAIL
			0340	REINFORCEMENT			1540	*RE-ROOF FINAL*
			0420	FOOTINGS	DO NOT COVER WORK UNTIL ABOVE IS APPROVED			
			0425	FOUNDATION INSPECTIONS	INSULATION:			
			0426	FLOOD VENT OPENINGS			0910	WALLS
			0430	PIERS/CAISSONS			1110	NAIL/SCREW
			0440	HOLD DOWNS			1120	FIRE WALL – 1ST LAYER
			0450	UFER GROUND			1130	FIRE WALL – 2ND LAYER
			0460	VERIFY SPECIAL INSPECTION			1140	TUB / SHOWER WALLBOARD
DO NOT INSTALL SUBFLOOR UNTIL ABOVE IS APPROVED					DO NOT TAPE UNTIL ABOVE IS APPROVED			
UNDERFLOOR INSPECTIONS:					LATH AND PLASTER:			
			0510	PLUMBING			1210	INTERIOR/EXTERIOR LATH
			0520	MECHANICAL			1230	EXTERIOR - SCRATCH
			0530	ELECTRICAL			1240	EXTERIOR - BROWN
			0540	FRAMING	RESIDENTIAL SEISMIC WORK:			
			0550	INSULATION			1810	PRECONSTRUCTION
DO NOT COVER WORK UNTIL ABOVE IS APPROVED							1820	SILL PLATE BOLTING
SHEER NAILING:							1830	SHEAR PANEL INSTALLATION
			0610	WALLS - INTERIOR			1840	FLOOR CONNECTORS
			0620	WALLS - EXTERIOR			*1850*	*RESIDENTIAL SEISMIC WORK FINAL*
			0630	ROOF				
			0640	FLOOR	SIGN INSPECTIONS			
FRAME INSPECTIONS							1910	BUILDING CONNECTION
			0680	FRAME			1920	ELECTRICAL
			0690	PLUMBING			*1930*	*SIGN FINAL*
			0700	SHOWER PAN / HOT MOP	FINAL APPROVALS			
			0720	GAS PIPING PRESSURE TEST			2002	*FINAL FLOOD ELEVATION CERTIFICATE WHEN REQ., THE FINAL FLOOD ELEVATION CERTIFICATE MUST BE RECEIVED PRIOR TO PERMIT FINAL*
			0730	MECHANICAL	*FINAL INSPECTIONS*			
			0740	FRAME			2010	PLUMBING
			0750	PLUMBING			2020	MECHANICAL
			0760	MFG FIREPLACE			2030	ELECTRICAL
CONCRETE / MASONARY WALLS:							2040	FIREPLACE
			0810	REINFORCEMENT			2050	ELECTRICAL SERVICE RELEASE
			0820	VERIFY SPECIAL INSPECTION			2060	GAS SERVICE RELEASE
							2065	TEMPORARY POWER POLE
COURTESY INSPECTION *(MUST BE ARRAINGED AND PAID IN ADVANCE)*							2070	ENERGY REGULATIONS
				COURTESY			*3000*	*BUILDING PERMIT*

DEPARTMENT DIVISION RELEASES

DATE	INSPECTION	CODE	DEPARTMENT/DIVISION
		3500	ENGINEERING AND TRANS. 577-3428
		3750	ENVIRONMENTAL SERVICES 577-3401
		4000	FIRE DEPT. – REQ. 24 HR NOTICE 577-3317
			HEALTH DEPARTMENT 567-6700
			PLANNING DEPARTMENT 577-3325

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

COMPLIANCE & ENFORCEMENT DIVISION

Notification Form
Regulation 8 Rule 40

REMOVAL OF UNDERGROUND STORAGE TANKS *OR* TREATMENT OF CONTAMINATED SOIL

SITE OF ACTIVITY

Site Address: 13778 Doolittle Drive | **City & Zip:** San Leandro 94577 | **Site#:**

Specific Location of Project within Address: Former Four Seasons Dry Cleaner unit at 13778 Doolittle Drive

Owner/Operator: Marina Faire LP

Check any that apply (400 numbers refer to regulation section requiring reporting):

- ☐ Tank Removal or Replacement ***(401)***
- ☑ Contaminated Soil Excavation and Removal ***(402)***
- ☐ Aeration of Soil < 50 ppmw organic content, but does not meet Section 118 Exemption ***(403)***
- ☐ Section 114 Exempt; Date Pipeline Leak ***Started:*** _____ Vol. Of Soil: _____ ***(403)***
- ☐ Section 115 Exempt; Date Contamination Unrelated to UST Activities ***Discovered:*** _____ ***(405)***

If only Tank Removal is selected, attach results showing soil is not contaminated

CONTRACTOR INFORMATION

Name: RRM, Inc. | **Site Contact:** Matt Paulus | **Phone:** 8312274148

Address: 2560 Soquel Avenue, Suite 202 Santa Cruz, CA 95062

TANK REMOVAL *(Section 401)*

Scheduled Start Date: | **Number and Size of Tank(s):**

Explain Methods of:

Piping drainage or flushing ***(310.1)*** _____

Liquid and sludge removal ***(310.2)*** _____

Vapor removal *(310.3)* **[Check One]** ☐ Water Displacement ☐ Vapor Freeing* ☐ Ventilation*

* Emission controls required for vapor freeing or ventilation if tank size greater than 250 gallons.

COMPLETE INFORMATION BELOW OR ATTACH SAMPLE RESULTS SHOWING SOIL IS UNCONTAMINATED (310.4)

CONTAMINATED SOIL EXCAVATION AND REMOVAL *(Section 402)*

Scheduled Start Date: July 5, 2017 | **Scheduled Completion Date:** July 21, 2017

Purpose of Excavation: remove contaminated soil as corrective action

Quantity of Soil: less than 250 tons **Organic Content & Type:** PCE less than 25 ppm

Methods used to quantify and analyze soil: soil samples, HVOC's by EPA Method 8260

Method of Stockpile Control *(304-306)*

☐ Water Spray ☑ Covered ☐ Vapor Suppressant (List Material Used): _____

Method of Site Closure *(306)*

☑ Backfilled ☑ Contaminated Soil Removed

☐ Onsite Treatment (Describe): _____ A/C or P/O #: _____

Loaded Trucks Covered? *(306.2)* ☑ Yes ☐ No

AERATION OF SOIL < 50 PPMW ORGANIC CONTENT *(Section 403)*

You must submit a Permit Application and Risk Screening Analysis *(Forms will be sent to you)*

FOR BAAQMD USE ONLY

Fax/PM Date:	By:	Disp to I#:	Area:	Date:	By:
Inv Req Date:	By:	Fwd to Supv.		Date:	By:

See Page Two to Complete This Form

Press to clear form

Approved 7/8/03

OTHER PUBLIC AGENCY CONTACTED *(Fire District, Hazardous Materials, City or County)?*	
Agency Name: Alameda County Health Care Services	Contact Name: Mark Detterman
Address: 1000 San Leandro Blvd, #300, San Leandro, CA 94577	Phone: 5105676700

EMERGENCY REMOVAL ORDER APPLICABLE?	
Agency Name:	Contact Name:
Address:	Phone:

H:\Pub_data\Janet\Reg 8-40\forms\notifdraft3.doc

GENERAL INFORMATION

- This notification form shall be used to notify the BAAQMD of any projects subject to the reporting requirements in Regulation 8, Rule 40, Sections 401 through 405. Notifications may be faxed to (415) 928-0338 or mailed to the address listed at the bottom of this form.
- An invoice for payment will be sent to the person listed under "Contractor Information" as the person responsible, unless the project is exempt from fee payment (see next item).
- See "Frequently Asked Questions" (FAQ) for definition of projects, change procedures, permit requirements, emergency conditions, project exemptions, and fee exemptions. For any questions not answered in the FAQ, contact the Compliance Assistance Counselor at (415) 749-4999.

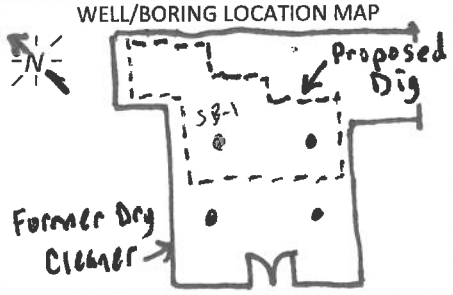
INSTRUCTIONS

- **SITE OF ACTIVITY:** Give the site street address and indicate if it has any existing BAAQMD site number, for either a plant or GDF. Identify the specific project location if the site contains more than one building. Indicate all applicable activity types by checking appropriate boxes. For reporting requirements under Sections 401 through 403, additional information is required, as below.
- **CONTRACTOR INFORMATION:** Identify the contractor that is responsible for performing the work at the site location listed. This contractor is also responsible for payment of the applicable notification fee, if the project is not exempt.
- **SECTION 401 - TANK REMOVAL/REPLACEMENT:** All soils disturbed and/or excavated as part of the tank removal shall be subject to the requirements of Sections 304 through 306, unless the soil has been determined not to be contaminated by measurement of organic content using the procedures in Sections 601 and 602. Complete requirements for Section 402 or submit sample results showing that the soil is not contaminated.
- **SECTION 402 - CONTAMINATED SOIL EXCAVATION AND REMOVAL:**
  - Be as accurate as possible for the Scheduled Start and Completion Dates. Specific requirements apply for excavation projects triggered within either 45 or 90 days (Reg. 8-40-306.4) and Authority to Construct requirements for projects lasting longer than three months (Reg. 2-1-128.16).
  - If a vapor suppressant is used, attach a product data sheet or MSDS.
  - If Method of Site Closure used is Onsite Treatment, describe specific method, (e.g., bioremediation, vapor extraction, air sparging, thermal desorption, etc.).
  - If Onsite Treatment is used, indicate whether an Authority to Construct was obtained by providing the Application No. or attach copy of BAAQMD Certification of Exemption.
- **SECTION 403 – AERATION OF SOIL < 50 PPMW ORGANIC CONTENT:** Section 301 exempts from control the aeration of soil containing less than 50 ppmw of organic compounds, but Section 403 still requires reporting of **ANY** soil aeration. If such a project does not meet the exemption criteria of Section 118, then a Permit Application and Risk Screening Analysis must be submitted.
- **EMERGENCY REMOVAL INFORMATION (IF APPLICABLE):** The rule defines an emergency tank removal or excavation of contaminated soil as "carried out pursuant to an order of a state or local government agency issued because the contaminated soil poses an imminent threat to public health and safety." If the project(s) meet this definition, then identify the agency that issued the order. Under Section 402 requirements, on line two, identify the purpose as indicated in the order.

B

BORING LOGS

WELL/BORING LOCATION MAP



Remediation Risk Management, Inc. | WELL/BORING: SB-1

DATE: - 6/27/17 | DRILLING METHOD: Geo Probe

PROJECT: Former Four Seasons Cleaner | SAMPLING METHOD: Macro Core

CLIENT: Marina Faire LP | BORING DIAMETER: 2 in

LOCATION: 13778 Doolittle Dr | BORING DEPTH: - 10 FT

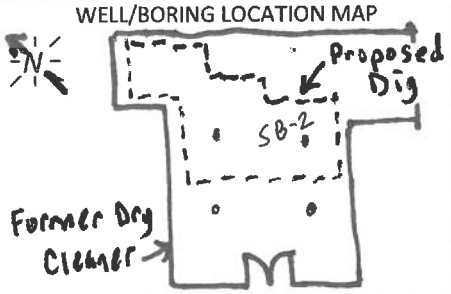
CITY: - San Leandro | WELL CASING: - NA

CO./STATE: Alameda, CA | WELL SCREEN: - NA

DRILLER: CASCADE | SAND PACK: - NA

WELL/BORING COMPLETION	FIRST ▽	STABILIZED ▼	MOISTURE	DENSITY BLOWS / FT	FIELD TEST PID (ppm)	SAMPLE NUMBER	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	USCS SYMBOL	DESCRIPTION
												WATER LEVEL: -- NA
												TIME: -- ↓
												DATE: -- ↓
												DESCRIPTION/LOGGED BY: Matt Kuempf
			DP									CONCRETE FLOOR (5-6" thick)
											CL	CLAY; DARK OLIVE BROWN; MED PLASTIC; 90% FINES; DAMP; NPO.
												(HAND AUGER 0-5' BGS)
GROUT			DP			SB-1-4.5-5'					CL	-SAME-
			DP			SB-1-9.5-10'					CL	-SAME-

WELL/BORING LOCATION MAP



Remediation Risk Management, Inc. | WELL/BORING: SB-2

DATE: - 6/27/17 | DRILLING METHOD: Geo Probe

PROJECT: Former Four Seasons Cleaner | SAMPLING METHOD: Macro Core

CLIENT: Marina Faire LP | BORING DIAMETER: 2 in

LOCATION: 13778 Doolittle Dr | BORING DEPTH: - 10 FT

CITY: - San Leandro | WELL CASING: - NA

CO./STATE: Alameda, CA | WELL SCREEN: - NA

DRILLER: CASCADE | SAND PACK: - NA

WATER LEVEL: -- | NA

TIME: -- | ↓

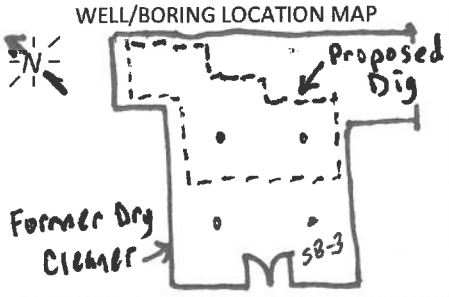
DATE: -- |

DESCRIPTION/LOGGED BY: Matt Kuempf

WELL/BORING COMPLETION	FIRST ▽	STABILIZED ▼	MOISTURE	DENSITY BLOWS / FT	FIELD TEST PID (ppm)	SAMPLE NUMBER	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	USCS SYMBOL	DESCRIPTION
			DP									CONCRETE FLOOR (5-6" thick)
											CL	CLAY; DARK OLIVE BROWN; MED PLASTIC; DP; NAD
												(Hand Auger 0-5' BGS)
												-same-
GROUT			DP			SB-2-4.5-5'					CL	
			DP			SB-2-9.5-10'					CL	-same-

1 2 3 4 5 6 7 8 9 10

WELL/BORING LOCATION MAP



Remediation Risk Management, Inc. | WELL/BORING: SB-3

DATE: - 6/27/17 | DRILLING METHOD: Geo Probe

PROJECT: Former Four Seasons Cleaner | SAMPLING METHOD: Macro Core

CLIENT: Marina Faire LP | BORING DIAMETER: 2 in

LOCATION: 13778 Doolittle Dr | BORING DEPTH: - 10 FT

CITY: - San Leandro | WELL CASING: - NA

CO./STATE: Alameda, CA | WELL SCREEN: - NA

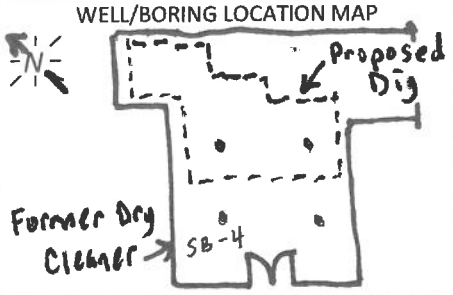
DRILLER: CASCADE | SAND PACK: - NA

WATER LEVEL:	--	NA	
TIME:	--	↓	
DATE:	--	↓	

DESCRIPTION/LOGGED BY: Matt Kuhlmpf

WELL/BORING COMPLETION	FIRST ▽	STABILIZED ▼	MOISTURE	DENSITY BLOWS / FT	FIELD TEST PID (ppm)	SAMPLE NUMBER	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	USCS SYMBOL	DESCRIPTION
Grout												CONCRETE FLOOR (5-6" thick)
											CL	CLAY; DK OLIVE BROWN; MED PLASTIC; DP; NPO.
												(Hand Auger 0-5' BGS)
						SB-3-4.5-5'					CL	-Same-
						SB-3-9.5-10'					CL	-Same-

WELL/BORING LOCATION MAP



Remediation Risk Management, Inc. | WELL/BORING: SB-4

DATE: - 6/27/17	DRILLING METHOD: Geo Probe
PROJECT: Former Four Seasons Cleaner	SAMPLING METHOD: Macro Core
CLIENT: Marina Faire LP	BORING DIAMETER: 2in
LOCATION: 13778 Doolittle Dr	BORING DEPTH: - 10FT
CITY: - San Leandro	WELL CASING: - NA
CO./STATE: Alameda, CA	WELL SCREEN: - NA
DRILLER: CASCADE	SAND PACK: - NA

WATER LEVEL:	--	NA
TIME:	--	↓
DATE:	--	↓

DESCRIPTION/LOGGED BY: Matt Kalmpf

WELL/BORING COMPLETION	FIRST ▽	STABILIZED ▼	MOISTURE	DENSITY BLOWS / FT	FIELD TEST PID (ppm)	SAMPLE NUMBER	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	USCS SYMBOL	DESCRIPTION
GROUT												CONCRETE FLOOR (5-6" thick)
											CL	CLAY; DK OLIVE BROWN; MED PLASTIC; DP; NPO.
												(Hand Auger 0-5' BGS)
						SB-4-4.5-5'					CL	- Same -
						SB-4-4.5-5'					CL	- Same -

C

FIELD AND LABORATORY PROCEDURES

ATTACHMENT C

FIELD AND LABORATORY PROCEDURES

FIELD PROCEDURES

Direct-Push Soil Boring and Soil and Groundwater Sampling

Direct-push soil borings are installed using the Geoprobe® drilling equipment to the target depth. A large bore sampler equipped with an acetate liner is used to core and sample soil to the desired depth. The acetate liners containing the soil core are withdrawn from the borehole and the soil contained within is logged by a field geologist using the Unified Soil Classification System and standard geologic techniques. In addition, based on field observations such as moisture content, changes in lithology, changes in color and evidence of contamination a segment of the liner containing a soil core is preserved as a soil sample for chemical analyses. Samples are sealed with Teflon tape, plastic end caps, appropriately labeled, and placed into chilled storage. Sampling and drilling equipment is cleaned with tri-sodium phosphate prior to and between uses.

Where groundwater is encountered, a grab groundwater sample is collected by lowering a small diameter, stainless steel bailer into each borehole. Groundwater collected into the bailer is transferred directly into EPA-approved sample containers appropriate for the analytical methods required for the investigation. Upon completion of drilling and sampling each borehole is backfilled to the surface using neat cement.

LABORATORY ANALYTICAL METHODS

Selected soil and groundwater samples are submitted to a California state-certified laboratory and analyzed for volatile organic compounds (VOCs) and/or halogenated VOCs (HVOCs) by EPA Method 8260B.

D

UNIFORM HAZARDOUS WASTE MANIFESTS

INVOICE
Invoice No 1001935793

REMIT TO:
Clean Harbors Env. Services
PO Box 3442
Boston, MA 02241-3442

EIN: 04-2698999

OFFICE:
Clean Harbors Environmental Services, Inc.
1010 Commercial Street
San Jose, CA 95112
(408) 451-5000

If you have any questions regarding this invoice, please contact your customer service representative at the telephone number listed above

SOLD TO:
Matt Kaempf
RRM Inc
2560 Soquel Ave.
Suite 202
Santa Cruz, CA 95062 - 0000

JOB SITE/GENERATOR:
Former Four Seasons Cleaners
13778 Doolittle Drive
San Leandro, CA 94577 - 0000

Job Description: CH1449117B,Soil from former Dry Cleaner VIA CH TO BL

**** Payable in USD funds ****

Last Service Date	Invoice No	Customer	Branch	Sales Order	Purchase Order	Terms
21 Jul 2017	1001935793	RR0040	DJ	1703303632	RRMIA756	NET 15 DAYS

SUMMARY BY LINE TYPE

Disposal	$3,742.09		
Fees	$1,944.76		
Material	$240.00		
Rental	$580.00		
Service	$950.00		
Transportation	$5,947.00		
SUBTOTAL	**$13,403.85**	**USD**	
TAX	**$79.95**	**USD**	
INVOICE TOTAL	**$13,483.80**	**USD**	⬅ PLEASE PAY THIS AMOUNT
DUE DATE	**09 Aug 2017**		⬅ REMIT PAYMENT BY

Manifest Info	Item ID	Description	Manifest Qty	Manifest UOM	Billing Qty	Billing UOM	Unit Price	Amount
		10 Jul 2017						
	LINRO	Rolloff Poly Liner CHHP20940			1.000	EA	60.0000 T	$60.00
	LINRO	Rolloff Poly Liner CHHP20512			1.000	EA	60.0000 T	$60.00
	ROLLOFFC	CHHP20940 Rental 7/10 to 7/18/17			9.000	DAY	20.0000 T	$180.00
	ROLLOFFC	CHHP20512 Rental 7/10 to 7/21/17			12.000	DAY	20.0000 T	$240.00
	DROP	CHHP20940 and CHHP20512			1.000	EA	700.0000	$700.00
		16 Jul 2017						
011011202FLE 1	DISPSL / CBP	Soil from former Dry Cleaner CH1449117B	20	T	18.080	TON	52.4500	$948.30
	FEE-DISP	Kern County Hazardous Waste Fee			948.296	%	0.1000	$94.83
	FEE-DISP	California Non-Hazardous Waste			18.080	T	5.7200	$103.42

Interest will be charged at a rate of 1.5% per month for all past due amounts.

INVOICE
Invoice No 1001935793

Manifest Info	Item ID	Description	Manifest Qty	Manifest UOM	Billing Qty	Billing UOM	Unit Price	Amount
		Landfill Fee (State Haz CERCLA)						
011011202FLE	TRAN	TRANSPORTATION			1.000	EA	1,450.0000	$1,450.00
		17 Jul 2017						
	LINRO	Rolloff Poly Liner CHHP20983			1.000	EA	60.0000 T	$60.00
	LINRO	Rolloff Poly Liner CHHP20180			1.000	EA	60.0000 T	$60.00
	ROLLOFFC	CHHP20983 Rental 7/17 to 7/20/17			4.000	DAY	20.0000 T	$80.00
	ROLLOFFC	CHHP20180 Rental 7/17 to 7/20/17			4.000	DAY	20.0000 T	$80.00
	DEM	Demurrage for Manifest 011011202FLE			1.500	HR	98.0000	$147.00
		19 Jul 2017						
011011204FLE 1	DISPSL / CBP	Soil from former Dry Cleaner CH1449117B	18	Y	17.710	TON	52.4500	$928.89
	FEE-DISP	Kern County Hazardous Waste Fee			928.890	%	0.1000	$92.89
	FEE-DISP	California Non-Hazardous Waste Landfill Fee (State Haz CERCLA)			17.710	T	5.7200	$101.30
	ROLLWASH	Washout of Rolloff, Intermodal or Dump Trailer			1.000	EA	250.0000	$250.00
011011204FLE	TRAN	TRANSPORTATION			1.000	EA	1,450.0000	$1,450.00
011011206FLE 1	DISPSL / CBP	Soil from former Dry Cleaner CH1449117B	20	Y	1.000	MIN	925.0000	$925.00
	FEE-DISP	Kern County Hazardous Waste Fee			925.000	%	0.1000	$92.50
	FEE-DISP	California Non-Hazardous Waste Landfill Fee (State Haz CERCLA)			17.560	T	5.7200	$100.44
011011206FLE	TRAN	TRANSPORTATION			1.000	EA	1,450.0000	$1,450.00
		20 Jul 2017						
011011207FLE 1	DISPSL / CBP	Soil from former Dry Cleaner CH1449117B	18	Y	17.920	TON	52.4500	$939.90
	FEE-DISP	Kern County Hazardous Waste Fee			939.904	%	0.1000	$93.99
	FEE-DISP	California Non-Hazardous Waste Landfill Fee (State Haz CERCLA)			17.920	T	5.7200	$102.50
011011207FLE	TRAN	TRANSPORTATION			1.000	EA	1,450.0000	$1,450.00
	FEE	Recovery Fee			12,240.960	EA	0.0950	$1,162.89
							SUBTOTAL	**$13,403.85**
							TAX	**$79.95**
							TOTAL	**$13,483.80**

T indicates SALES TAXABLE ITEM

Interest will be charged at a rate of 1.5% per month for all past due amounts.

INVOICE
Invoice No 1001948309

REMIT TO:
Clean Harbors Env. Services
PO Box 3442
Boston, MA 02241-3442

EIN: 04-2698999

OFFICE:
Clean Harbors Environmental Services, Inc.
1010 Commercial Street
San Jose, CA 95112
(408) 451-5000

If you have any questions regarding this invoice, please contact your customer service representative at the telephone number listed above

SOLD TO:
Matt Kaempf
RRM Inc
2560 Soquel Ave.
Suite 202
Santa Cruz, CA 95062 - 0000

JOB SITE/GENERATOR:
Former Four Seasons Cleaners
13778 Doolittle Drive
San Leandro, CA 94577 - 0000

Job Description: CH1449117B,Soil from former Dry Cleaner VIA CH TO BL

**** Payable in USD funds ****

Last Service Date	Invoice No	Customer	Branch	Sales Order	Purchase Order	Terms
24 Jul 2017	1001948309	RR0040	DJ	1703729611	IA756	NET 15 DAYS

SUMMARY BY LINE TYPE

Disposal	$925.00		
Fees	$296.20		
SUBTOTAL	**$1,221.20**	**USD**	
TAX	**$0.00**	**USD**	
INVOICE TOTAL	**$1,221.20**	**USD**	← PLEASE PAY THIS AMOUNT
DUE DATE	**16 Aug 2017**		← REMIT PAYMENT BY

Manifest Info	Item ID	Description	Manifest Qty	Manifest UOM	Billing Qty	Billing UOM	Unit Price	Amount
		24 Jul 2017						
011011209FLE 1	DISPSL / CBP	Soil from former Dry Cleaner CH1449117B	15	Y	1.000	MIN	925.0000	$925.00
	FEE-DISP	Kern County Hazardous Waste Fee			925.000	%	0.1000	$92.50
	FEE-DISP	California Non-Hazardous Waste Landfill Fee (State Haz CERCLA)			17.090	T	5.7200	$97.75
	FEE	Recovery Fee			1,115.250	EA	0.0950	$105.95
							SUBTOTAL	**$1,221.20**
							TAX	**$0.00**
							TOTAL	**$1,221.20**

Interest will be charged at a rate of 1.5% per month for all past due amounts.

INVOICE
Invoice No 1001985023

REMIT TO:
Clean Harbors Env. Services
PO Box 3442
Boston, MA 02241-3442

EIN: 04-2698999

OFFICE:
Clean Harbors Environmental Services, Inc.
1010 Commercial Street
San Jose, CA 95112
(408) 451-5000

If you have any questions regarding this invoice, please contact your customer service representative at the telephone number listed above

SOLD TO:
Matt Kaempf
RRM Inc
2560 Soquel Ave.
Suite 202
Santa Cruz, CA 95062 - 0000

JOB SITE/GENERATOR:
Former Four Seasons Cleaners
13778 Doolittle Drive
San Leandro, CA 94577 - 0000

Job Description: CH1480682B,RCRA Soil from former Dry Cleaner VIA CH TO AG

**** Payable in USD funds ****

Last Service Date	Invoice No	Customer	Branch	Sales Order	Purchase Order	Terms
17 Aug 2017	1001985023	RR0040	DJ	1703852673	RRM IA756	NET 15 DAYS

SUMMARY BY LINE TYPE

Disposal	$6,554.00		
Fees	$1,630.59		
Transportation	$4,000.00		
SUBTOTAL	**$12,184.59**	**USD**	
TAX	**$0.00**	**USD**	
INVOICE TOTAL	**$12,184.59**	**USD**	← PLEASE PAY THIS AMOUNT
DUE DATE	**13 Sep 2017**		← REMIT PAYMENT BY

Manifest Info	Item ID	Description	Manifest Qty	Manifest UOM	Billing Qty	Billing UOM	Unit Price	Amount
		13 Aug 2017						
010908018FLE 1	DISPSL / CCRK	RCRA Soil from former Dry Cleaner CH1480682B	18	Y	32,770.000	LBS	0.2000	$6,554.00
	FEE-DISP	Utah Hazardous Waste for Disposal			16.385	T	35.0000	$573.48
010908018FLE	TRAN	TRANSPORTATION			1.000	EA	4,000.0000	$4,000.00
	FEE	Recovery Fee			11,127.480	EA	0.0950	$1,057.11
							SUBTOTAL	**$12,184.59**
							TAX	**$0.00**
							TOTAL	**$12,184.59**

Interest will be charged at a rate of 1.5% per month for all past due amounts.

17272

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) DJ 1703852673 SC PPW 7/7/2017

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	CAP000273102	1	(800) 483-3718	010908018 FLE

5. Generator's Name and Mailing Address
Former Four Seasons Cleaners
Marina Faire LP 3271 S. Highlands Drive, Suite 704
Las Vegas, NV 89109
Generator's Phone:

Generator's Site Address (if different than mailing address)
13778 Doolittle Drive
San Leandro, CA 94577

6. Transporter 1 Company Name
Clean Harbors Environmental Services, Inc.
U.S. EPA ID Number
MAD039322250

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

8. Designated Facility Name and Site Address
Clean Harbors Aragonite LLC
11600 North Aptus Road
Grantsville, UT 84029
Facility's Phone: (435) 884-8100
U.S. EPA ID Number
UTD981552177

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. NA3077, HAZARDOUS WASTE, SOLID, N.O.S., (TETRACHLOROETHYLENE, TRICHLOROETHYLENE), 9, PG III	1	BIN CM	18	cyls	D039	D040	611
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1.CH1480682B ERG#171
Bin 25920
lot# 22925548

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

Generator's/Offeror's Printed/Typed Name: Matt Kramer for Marina Faire
Signature:
Month Day Year: 08 13 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Mike Beene
Signature: Mike Beene
Month Day Year: 8 15 17
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
18b. Alternate Facility (or Generator) Manifest Reference Number:
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H040 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Michelle Lee
Signature:
Month Day Year: 8 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

Clean Harbors
ENVIRONMENTAL SERVICES

Land Disposal Restriction Notification Form

Printed Date :Aug 08, 2017

MANIFEST INFORMATION

Generator : Former Four Seasons Cleaners

Address: 13778 Doolittle Drive
San Leandro,CA 94577

EPA ID #: C A P 0 0 0 2 7 3 1 0 2

Manifest Tracking Info.

010908018FLE

Sales Order No: 1703852673

LINE ITEM INFORMATION

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category
1.	1	CH1480682B	NON-WASTEWATER	2 (This is subject to LDR.)

EPA Waste Code	EPA Waste SubCategory
D039D040	NONE

LDR Chemical Data

Chemical	Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
1,1-DICHLOROETHYLENE	Y	N	N
CHLOROFORM	Y	N	N
TETRACHLOROETHYLENE	Y	N	N
TRICHLOROETHYLENE	Y	N	N

Certification	Applies to Manifest Line Items
Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.	1.

Waste analysis data, where available, is attached.

Signature : [signature] Print Name Matt Kuempf

Title : Proj Mgr/Re Marina Envir Date : 8/13/17

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) DJ 1703303632 SC PPW 5/30/2017 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	CAP000273102	1	(800) 483-3718	011011202 FLE

GENERATOR

5. Generator's Name and Mailing Address
Former Four Seasons Cleaners
Marina Faire LP 3271 S. Highlands Drive, Suite 70
Las Vegas, NV 89109
Generator's Phone:

Generator's Site Address (if different than mailing address)
13778 Doolittle Drive
San Leandro, CA 94577

6. Transporter 1 Company Name: Clean Harbors Environmental Services, Inc. — U.S. EPA ID Number: MAD039322250

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Harbors Buttonwillow LLC
2500 West Lokern Road
Buttonwillow, CA 93206
Facility's Phone: (661) 762-6200
U.S. EPA ID Number: CAD980675276

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON-RCRA HAZARDOUS WASTE, SOLIDS, (DIESEL, TETRACHLOROETHENE)	001	CM	20	TON	611
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1.CH1449117B
Bin #CHHT 10940
Truck #1865
Trailer #7374

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

Generator's/Offeror's Printed/Typed Name: Matt Perkes — Signature — Month 07 Day 16 Year 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Chuck Dingle — Signature — Month 07 Day 17 Year 17

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

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

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Carlos Rodriguez — Signature — Month 7 Day 18 Year 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

1911 - P926046

7154

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) DJ 1703303632 SC PPW 5/30/2017 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAP000273102	1	(800) 483-3718	011011204 FLE

GENERATOR

5. Generator's Name and Mailing Address
Former Four Seasons Cleaners
Marina Faire LP 3271 S. Highlands Drive, Suite 70
Las Vegas, NV 89109
Generator's Phone:

Generator's Site Address (if different than mailing address)
13778 Doolittle Drive
San Leandro, CA 94577

6. Transporter 1 Company Name: Clean Harbors Environmental Services, Inc.
U.S. EPA ID Number: MAD039322250

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

8. Designated Facility Name and Site Address
Clean Harbors Buttonwillow LLC
2500 West Lokern Road
Buttonwillow, CA 93206
Facility's Phone: (661) 762-6200
U.S. EPA ID Number: CAD980675276

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON-RCRA HAZARDOUS WASTE, SOLIDS, (DIESEL, TETRACHLOROETHENE)	1	CM	18	Y	611
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1.CH1449117B
CHHP
BIN# 20983

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

Generator's/Offeror's Printed/Typed Name: Matt Parus IHPM
Signature:
Month: 7 Day: 19 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Steve O'Connell
Signature:
Month: 7 Day: 19 Year: 17

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

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

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Carlos Rodriguez
Signature:
Month: 7 Day: 20 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) DJ 1703303632 SC PPW 5/30/2017 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAP000273102	1	(800) 483-3718	011011206 FLE

GENERATOR

5. Generator's Name and Mailing Address
Former Four Seasons Cleaners
Marina Faire LP 3271 S. Highlands Drive, Suite 70
Las Vegas, NV 89109
Generator's Phone:

Generator's Site Address (if different than mailing address)
13778 Doolittle Drive
San Leandro, CA 94577

6. Transporter 1 Company Name
Clean Harbors Environmental Services, Inc.
U.S. EPA ID Number
MAD039322250

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

8. Designated Facility Name and Site Address
Clean Harbors Buttonwillow LLC
2500 West Lokern Road
Buttonwillow, CA 93206
Facility's Phone: ~~(661) 762-6200~~
U.S. EPA ID Number
CAD980675276

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON-RCRA HAZARDOUS WASTE, SOLIDS, (DIESEL, TETRACHLOROETHENE)	001	CM	20	Y	611
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1.CH1449117B
BCA# ChhP20180

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

Generator's/Offeror's Printed/Typed Name: Matt Parks
Signature:
Month 7 Day 19 Year 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Paul Kleinau
Signature:
Month 7 Day 19 Year 17
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Carlos Rodriguez
Signature:
Month 7 Day 20 Year 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

1911 PA26046
715t

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) DJ 1703303632 SC PPW 5/30/2017 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAP000273102	2. Page 1 of: 1	3. Emergency Response Phone: (800) 483-3718	4. Manifest Tracking Number: 011011207 FLE

5. Generator's Name and Mailing Address
Former Four Seasons Cleaners
Marina Faire LP 3271 S. Highlands Drive, Suite 70
Las Vegas, NV 89109
Generator's Phone:

Generator's Site Address (if different than mailing address)
13778 Doolittle Drive
San Leandro,CA 94577

6. Transporter 1 Company Name
Clean Harbors Environmental Services, Inc.
U.S. EPA ID Number: MAD039322250

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Clean Harbors Buttonwillow LLC
2500 West Lokern Road
Buttonwillow, CA 93206
Facility's Phone: (661) 762-6200
U.S. EPA ID Number: CAD980675276

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON-RCRA HAZARDOUS WASTE, SOLIDS, (DIESEL, TETRACHLOROETHENE)	1	CM	18	Y	611
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1.CH1449117B
BIN CHHP 20512

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

Generator's/Offeror's Printed/Typed Name: Matt Pavlus BRM — Signature: [signature] — Month 7 Day 20 Year 17

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Steve Conney — Signature: [signature] — Month 7 Day 20 Year 17
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Jake Hurst — Signature: [signature] — Month 7 Day 21 Year 17

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) DJ 1703303632 SC PPW 5/30/2017 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number: CAP000273102	2. Page 1 of 1	3. Emergency Response Phone: (800) 483-3718	4. Manifest Tracking Number: 011011209 FLE

5. Generator's Name and Mailing Address
Former Four Seasons Cleaners
Marina Faire LP 3271 S. Highlands Drive, Suite 70
Las Vegas. NV 89109
Generator's Phone:

Generator's Site Address (if different than mailing address)
13778 Doolittle Drive
San Leandro,CA 94577

6. Transporter 1 Company Name: ~~Clean Harbors Environmental Services, Inc.~~ HERNANDEZ TRUCKING — U.S. EPA ID Number: ~~MAD039322250~~ CAR000176644

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number: CAD980675276
Clean Harbors Buttonwillow LLC
2500 West Lokern Road
Buttonwillow, CA 93206
Facility's Phone: ~~(661) 762-6200~~

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON-RCRA HAZARDOUS WASTE, SOLIDS, (DIESEL, TETRACHLOROETHENE)	01	CM	15	Y	611
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1.CH1449117B
BIN #R27963PL

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

Generator's/Offeror's Printed/Typed Name: Matt Perkins / PRM — Signature: [signature] — Month Day Year: 07 24 17

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: HECTOR HERNANDEZ — Signature: [signature] — Month Day Year: 07 24 17
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Carlos Rodriguez — Signature: [signature] — Month Day Year: 7 25 17

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

E

FIELD DATA

APPENDIX L - BUILDING SURVEY FORM

Preparer's Name: Matt P. Date/Time Prepared: 8/30/17 13:00
Affiliation: PBM, Inc Phone Number: 831.227.4148

Occupant Information

Occupant Name: Family Dentistry Interviewed: ☐ Yes ☐ No
Mailing Address: 13770 Doolittle Dr. / San Leandro
City: San Leandro State: CA Zip Code: _____
Phone: _____ Email: _____

Owner/Landlord Information (Check if same as occupant ☐)

Occupant Name: _____ Interviewed: ☐ Yes ☐ No
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Email: _____

Building Type (Check appropriate boxes)

☐ Residential ☐ Residential Duplex ☐ Apartment Building ☐ Mobile Home ☑ Commercial (office)
☐ Commercial (warehouse) ☐ Industrial ☑ Strip Mall ☐ Split Level ☐ Church ☐ School

Building Characteristics

Approximate Building Age (years): _____ Number of Stories: _____
Approximate Building Area (square feet): _____ Number of Elevators: _____

Foundation Type (Check appropriate boxes)

☑ Slab-on-Grade ☐ Crawl Space ☐ Basement

Basement Characteristics (Check appropriate boxes) NA

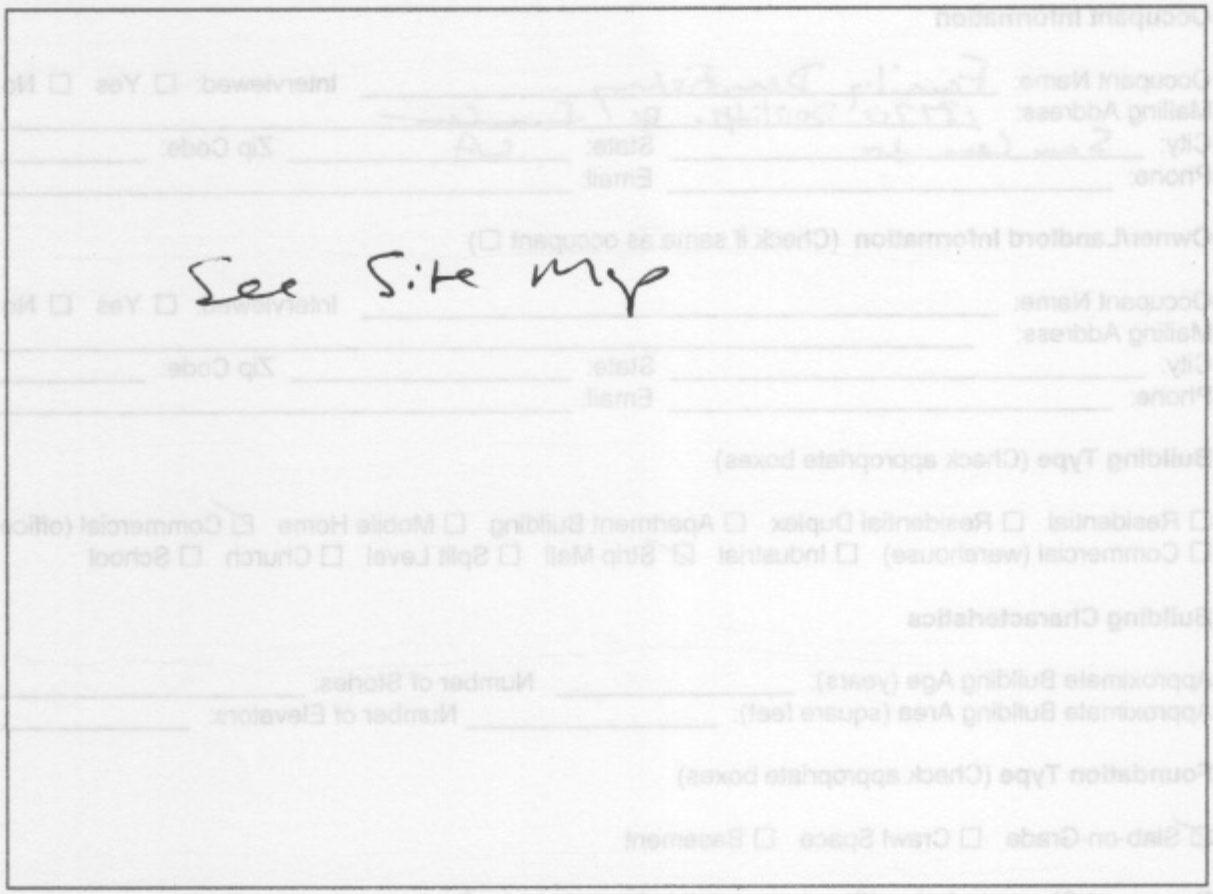
☐ Dirt Floor ☐ Sealed ☐ Wet Surfaces ☐ Sump Pump ☐ Concrete Cracks ☐ Floor Drains

Factors Influencing Indoor Air Quality

Is there an attached garage?	☐ Yes ☑ No	
Is there smoking in the building?	☐ Yes ☑ No	
Is there new carpet or furniture?	☐ Yes ☑ No	Describe: _____
Have clothes or drapes been recently dry cleaned?	☐ Yes ☑ No	Describe: _____
Has painting or staining been done with the last six months?	☐ Yes ☐ No	Describe: _____
Has the building been recently remodeled?	☐ Yes ☑ No	Describe: _____
Has the building ever had a fire?	☐ Yes ☑ No	
Is there a hobby or craft area in the building?	☐ Yes ☑ No	Describe: _____
Is gun cleaner stored in the building?	☐ Yes ☑ No	
Is there a fuel oil tank on the property?	☐ Yes ☑ No	
Is there a septic tank on the property?	☐ Yes ☑ No	
Has the building been fumigated or sprayed for pests recently?	☐ Yes ☑ No	Describe: _____
Do any building occupants use solvents at work?	☐ Yes ☐ No	Describe: _____

Sampling Locations

Draw the general floor plan of the building and denote locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.



Primary Type of Energy Used (Check appropriate boxes)

☐ Natural Gas ☐ Fuel Oil ☐ Propane ☑ Electricity ☐ Wood ☐ Kerosene

Meteorological Conditions

Describe the general weather conditions during the indoor air sampling event.

Sunny, 72°F, WNW wind 5-15 mph

General Comments

Provide any other information that may be of importance in understanding the indoor air quality of this building.

APPENDIX M – BUILDING SCREENING FORM

Occupant of Building Dentist

Address 13770 Doolittle Dr.

City San Leandro CA

Field Investigator Matt R. /RRM Date 8/22/17

Field Instrument Reading	Measurement Location (Ambient Air, Foundation Opening, or Consumer Product)	If Consumer Product, Potential Volatile Ingredients
0.0	Reception	
0.0	Bathroom	
0.0	Exam Rm Area	
0.0	Utility Room	
<0.1	TCE reception	
<0.1	TCE Rear storage area	
<0.1	PCE reception	
<0.1	PCE Rear	

Comments:

Chemical Inventory

Sanitex Plus - 1 gallon IPA
Ammonia Chloride

Goof Off - Aerosol Can

C+R Ultrasonics - Tartar + cement Remover
Product 232 1 gallon

Soil Gas Field Sheet

RRM Job #: IA7SC
Site Location: 13778 Doolittle Dr., San Leandro
Personnel: EF

Sample ID	Date Sampled	Time Rod Placed/Depth	Vacuum Test Results Pass/Fail?	PURGE: Purge Canister Serial #	PURGE: Purge Volume (ml or L)	PURGE: Pressure @ Purge Start	PURGE: Pressure @ Purge End	SAMPLE: Sample Canister Serial #	SAMPLE: Manifold Serial #	SAMPLE: Sample Start Time	SAMPLE: Sample Start Pressure	SAMPLE: Sample Flowrate	SAMPLE: Sample Stop Time	SAMPLE: Sample Stop Pressure	
SSV-1	8/31/17	1050	~~Y/N~~ Y	00032	150	-30 | 1316	-29 | 1318	00068	A08312	1319	30	150mL/min	1336	12	Enthalpy (LFT)
SSV-2	" "	1115	Y/N	" "	" "	-29 | 1325	-28 | 1357	00257	A00309	1413	+30	" "	1424	8.5	
IA-10-1	8/30/17							C8345	05985	1335	28	24 hr	below	below	Sampled by "RRM"
	8/31/17												1335	0	
IA-10-2	8/30/17							~~10712~~	06027	1336	28	24hr	below	below	
	8/31												1340	0	
OA-8-30-17	8/30							0791	05980	1400	?	24hr	below	below	BC Labs
	8/31												1334	0	

Helium Shroud held @ 30%

F

CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

Date of Report: 07/05/2017

Matt Kaempf

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Client Project:	IA756 Marina Faire
BCL Project:	Misc Samples
BCL Work Order:	1717715
Invoice ID:	B272268

Enclosed are the results of analyses for samples received by the laboratory on 6/29/2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Stuart Buttram
Technical Director

Table of Contents

BC LABORATORIES, INC. — Chain of Custody Form

Page 1 of 1

Report To:
Client: RRM, INC
Attn: Matt Kaempf
Street Address: 2560 Soquel Ave Ste. 202
City, State, Zip: Santa Cruz, Ca 95062
Phone: 8312274719 Fax:
Email: matt@rrmsc.com
Work Order #: IA756

Project #: IA756
Project Name: Marina Faire
Sampler(s): Matt Kaempf

17-17715

Comments: Results by 7/6/17
RUSH!

Analysis Requested (Please refer to the back of this page for completion instructions and method legend.): PCE, TCE, Vinyl Chloride; cis 1,2-DCE; trans-1,2-DCE; 1,1-DCE

Result Request **Surcharge: ☐ STD (10 Days) ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Sample #	Description	Date Sampled	Time Sampled	PCE, TCE, Vinyl Chloride	cis 1,2-DCE	trans-1,2-DCE	1,1-DCE	Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Notes
-1	SB-1 - 4.5-5'	6/27/17	1057	X	X	X	X	X						
-2	SB-1 - 9.5-10'	↓	1130	↓	↓	↓	↓	↓						
-3	SB-2 - 4.5-5'	↓	1140	↓	↓	↓	↓	↓						
-4	SB-2 - 9.5-10'	↓	1145	↓	↓	↓	↓	↓						
-5	SB-3 - 4.5-5'	↓	1158	↓	↓	↓	↓	↓						
-6	SB-3 - 9.5-10'	↓	1202	↓	↓	↓	↓	↓						
-7	SB-4 - 4.5-5'	↓	1221	↓	↓	↓	↓	↓						
-8	SB-4 - 9.5-10'	↓	1230	↓	↓	↓	↓	↓						
~~8~~ JJ 6-29	JJ 6-29													

CHK BY [signature] DISTRIBUTION MA RCPTKL SUB-OUT ☐

Billing ☒ Same as above
Client:
Address:
City: State Zip
Attn:
P.O. #:

EDF Required? Geotracker ☐ Yes ☐ No
Send Copy to State of CA? (EDT) ☐ Yes ☐ No

Global ID (Needed for EDF)
System # (Needed for EDT)

Relinquished By	Date	Time	Received By	Date	Time
1. M Kaempf	6/28/17	1400	1. [signature] BCLS	6/28/17	1400
2. [signature] BCL via OT	6/28/17	1810	2. [signature]	6.29.17	10:25
3.			3.		

BC Laboratories, Inc. – 4100 Atlas Ct. – Bakersfield, CA 93308 – 661.327.4911 – Fax: 661.327.1918 – www.bclabs.com

Chain of Custody and Cooler Receipt Form for 1717715 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 17-17715

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☑ Hand Delivery ☐	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☐ Other ☐ (Specify)_____	Other ☐ (Specify)_____	W / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☐ No ☑

COC Received ☑ YES ☐ NO

Emissivity: .95 Container: Soil Sleeve Thermometer ID: 208 Date/Time 6.29.17 10:25

Temperature: (A) 3.0 °C / (C) 3.3 °C Analyst Init SH

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE	A	A	A	A	A	A	AA			
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: No time on container 6-29-17 1436

Sample Numbering Completed By: JLS Date/Time: _____

A = Actual / C = Corrected

Rev 21 05/23/2016

[S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMRECrev 20]

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1717715-01	**COC Number:**	---	**Receive Date:**	06/29/2017 10:25
	Project Number:	---	**Sampling Date:**	06/27/2017 10:57
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	SB-1-4.5-5'	**Lab Matrix:**	Solids
	Sampled By:	Matt Kaempf	**Sample Type:**	Soil
1717715-02	**COC Number:**	---	**Receive Date:**	06/29/2017 10:25
	Project Number:	---	**Sampling Date:**	06/27/2017 11:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	SB-1-9.5-10'	**Lab Matrix:**	Solids
	Sampled By:	Matt Kaempf	**Sample Type:**	Soil
1717715-03	**COC Number:**	---	**Receive Date:**	06/29/2017 10:25
	Project Number:	---	**Sampling Date:**	06/27/2017 11:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	SB-2-4.5-5'	**Lab Matrix:**	Solids
	Sampled By:	Matt Kaempf	**Sample Type:**	Soil
1717715-04	**COC Number:**	---	**Receive Date:**	06/29/2017 10:25
	Project Number:	---	**Sampling Date:**	06/27/2017 11:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	SB-2-9.5-10'	**Lab Matrix:**	Solids
	Sampled By:	Matt Kaempf	**Sample Type:**	Soil
1717715-05	**COC Number:**	---	**Receive Date:**	06/29/2017 10:25
	Project Number:	---	**Sampling Date:**	06/27/2017 11:58
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	SB-3-4.5-5'	**Lab Matrix:**	Solids
	Sampled By:	Matt Kaempf	**Sample Type:**	Soil
1717715-06	**COC Number:**	---	**Receive Date:**	06/29/2017 10:25
	Project Number:	---	**Sampling Date:**	06/27/2017 12:02
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	SB-3-9.5-10'	**Lab Matrix:**	Solids
	Sampled By:	Matt Kaempf	**Sample Type:**	Soil
1717715-07	**COC Number:**	---	**Receive Date:**	06/29/2017 10:25
	Project Number:	---	**Sampling Date:**	06/27/2017 12:21
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	SB-4-4.5-5'	**Lab Matrix:**	Solids
	Sampled By:	Matt Kaempf	**Sample Type:**	Soil

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1717715-08	**COC Number:**	---	**Receive Date:**	06/29/2017 10:25
	Project Number:	---	**Sampling Date:**	06/27/2017 12:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	SB-4-9.5-10'	**Lab Matrix:**	Solids
	Sampled By:	Matt Kaempf	**Sample Type:**	Soil

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-01 | **Client Sample Name:** SB-1-4.5-5', 6/27/2017 10:57:00AM, Matt Kaempf

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00092	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.0018	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0018	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	**0.021**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-01 | **Client Sample Name:** SB-1-4.5-5', 6/27/2017 10:57:00AM, Matt Kaempf

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**1.1**	**mg/kg**	**0.050**	**0.013**	**EPA-8260B**	ND	**A01**	2
Toluene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0021	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0020	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.059**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0034	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0022	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	70 - 121 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	110	%	70 - 121 (LCL - UCL)		EPA-8260B			2
Toluene-d8 (Surrogate)	104	%	81 - 117 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.8	%	81 - 117 (LCL - UCL)		EPA-8260B			2

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-01 | **Client Sample Name:** SB-1-4.5-5', 6/27/2017 10:57:00AM, Matt Kaempf

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Bromofluorobenzene (Surrogate)	107	%	74 - 121 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	74 - 121 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/28/17	06/30/17 22:11	ADC	MS-V3	1	B[F2758
2	EPA-8260B	06/28/17	07/03/17 14:22	ADC	MS-V3	10	B[F2758

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-02 | **Client Sample Name:** SB-1-9.5-10', 6/27/2017 11:30:00AM, Matt Kaempf

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00092	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.0018	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0018	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	**0.0062**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-02 | **Client Sample Name:** SB-1-9.5-10', 6/27/2017 11:30:00AM, Matt Kaempf

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**0.16**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
Toluene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0021	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0020	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.023**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0034	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0022	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	130	%	70 - 121 (LCL - UCL)		EPA-8260B		S09	1
Toluene-d8 (Surrogate)	105	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	106	%	74 - 121 (LCL - UCL)		EPA-8260B			1

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-02 | **Client Sample Name:** SB-1-9.5-10', 6/27/2017 11:30:00AM, Matt Kaempf

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/29/17	06/30/17 22:34	ADC	MS-V3	1	B[F2759

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Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-03 | **Client Sample Name:** SB-2-4.5-5', 6/27/2017 11:40:00AM, Matt Kaempf

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00092	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.0018	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0018	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1

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Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-03 | **Client Sample Name:** SB-2-4.5-5', 6/27/2017 11:40:00AM, Matt Kaempf

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**0.021**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
Toluene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0021	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0020	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0034	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0022	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.7	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	108	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-03 | **Client Sample Name:** SB-2-4.5-5', 6/27/2017 11:40:00AM, Matt Kaempf

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/29/17	07/03/17 13:59	ADC	MS-V3	1	B[F2759

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Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-04 | **Client Sample Name:** SB-2-9.5-10', 6/27/2017 11:45:00AM, Matt Kaempf

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00092	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.0018	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0018	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	**0.012**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1

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Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-04 | **Client Sample Name:** SB-2-9.5-10', 6/27/2017 11:45:00AM, Matt Kaempf

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**0.65**	**mg/kg**	**0.050**	**0.013**	**EPA-8260B**	ND	**A01**	2
Toluene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0021	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0020	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.048**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0034	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0022	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	118	%	70 - 121 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	111	%	70 - 121 (LCL - UCL)		EPA-8260B			2
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	97.8	%	81 - 117 (LCL - UCL)		EPA-8260B			2

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Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-04 | **Client Sample Name:** SB-2-9.5-10', 6/27/2017 11:45:00AM, Matt Kaempf

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Bromofluorobenzene (Surrogate)	106	%	74 - 121 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	108	%	74 - 121 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/29/17	06/30/17 23:21	ADC	MS-V3	1	B[F2759
2	EPA-8260B	06/29/17	07/03/17 14:46	ADC	MS-V3	10	B[F2759

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Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-05 | **Client Sample Name:** SB-3-4.5-5', 6/27/2017 11:58:00AM, Matt Kaempf

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00092	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.0018	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0018	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	**0.022**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1

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Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-05 | **Client Sample Name:** SB-3-4.5-5', 6/27/2017 11:58:00AM, Matt Kaempf

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**0.47**	**mg/kg**	**0.050**	**0.013**	**EPA-8260B**	ND	**A01**	2
Toluene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0021	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0020	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.025**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0034	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0022	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	129	%	70 - 121 (LCL - UCL)		EPA-8260B		S09	1
1,2-Dichloroethane-d4 (Surrogate)	110	%	70 - 121 (LCL - UCL)		EPA-8260B			2
Toluene-d8 (Surrogate)	104	%	81 - 117 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)		EPA-8260B			2

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Santa Cruz, CA 95062

Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-05 | **Client Sample Name:** SB-3-4.5-5', 6/27/2017 11:58:00AM, Matt Kaempf

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/29/17	06/30/17 23:44	ADC	MS-V3	1	B[F2759
2	EPA-8260B	06/29/17	07/03/17 15:09	ADC	MS-V3	10	B[F2759

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Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-06 | **Client Sample Name:** SB-3-9.5-10', 6/27/2017 12:02:00PM, Matt Kaempf

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00092	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.0018	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0018	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	**0.034**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1

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Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-06 | **Client Sample Name:** SB-3-9.5-10', 6/27/2017 12:02:00PM, Matt Kaempf

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**0.35**	**mg/kg**	**0.050**	**0.013**	**EPA-8260B**	ND	**A01**	2
Toluene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0021	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0020	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.032**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0034	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0022	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	119	%	70 - 121 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	110	%	70 - 121 (LCL - UCL)		EPA-8260B			2
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.5	%	81 - 117 (LCL - UCL)		EPA-8260B			2

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Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-06 | **Client Sample Name:** SB-3-9.5-10', 6/27/2017 12:02:00PM, Matt Kaempf

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Bromofluorobenzene (Surrogate)	109	%	74 - 121 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/29/17	07/01/17 00:07	ADC	MS-V3	1	B[F2759
2	EPA-8260B	06/29/17	07/03/17 15:32	ADC	MS-V3	10	B[F2759

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Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-07 | **Client Sample Name:** SB-4-4.5-5', 6/27/2017 12:21:00PM, Matt Kaempf

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00092	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.0018	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0018	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1

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Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-07 | **Client Sample Name:** SB-4-4.5-5', 6/27/2017 12:21:00PM, Matt Kaempf

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**0.038**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
Toluene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0021	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0020	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0034	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0022	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	115	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-07 | **Client Sample Name:** SB-4-4.5-5', 6/27/2017 12:21:00PM, Matt Kaempf

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/29/17	07/01/17 00:30	ADC	MS-V3	1	B[F2759

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Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-08 | **Client Sample Name:** SB-4-9.5-10', 6/27/2017 12:30:00PM, Matt Kaempf

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00092	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.0018	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0018	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1

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Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-08 | **Client Sample Name:** SB-4-9.5-10', 6/27/2017 12:30:00PM, Matt Kaempf

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**0.29**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
Toluene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0021	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0020	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.0062**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0034	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0022	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	117	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	104	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	106	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1717715-08 | **Client Sample Name:** SB-4-9.5-10', 6/27/2017 12:30:00PM, Matt Kaempf

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/29/17	07/01/17 00:54	ADC	MS-V3	1	B[F2759

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Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[F2758						
Benzene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0013	
Bromobenzene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0013	
Bromochloromethane	B[F2758-BLK1	ND	mg/kg	0.0050	0.00092	
Bromodichloromethane	B[F2758-BLK1	ND	mg/kg	0.0050	0.00084	
Bromoform	B[F2758-BLK1	ND	mg/kg	0.0050	0.0015	
Bromomethane	B[F2758-BLK1	ND	mg/kg	0.0050	0.0016	
n-Butylbenzene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0015	
sec-Butylbenzene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0012	
tert-Butylbenzene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0012	
Carbon tetrachloride	B[F2758-BLK1	ND	mg/kg	0.0050	0.0011	
Chlorobenzene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0013	
Chloroethane	B[F2758-BLK1	ND	mg/kg	0.0050	0.0014	
Chloroform	B[F2758-BLK1	ND	mg/kg	0.0050	0.00063	
Chloromethane	B[F2758-BLK1	ND	mg/kg	0.0050	0.0014	
2-Chlorotoluene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0018	
4-Chlorotoluene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0014	
Dibromochloromethane	B[F2758-BLK1	ND	mg/kg	0.0050	0.00099	
1,2-Dibromo-3-chloropropane	B[F2758-BLK1	ND	mg/kg	0.0050	0.0017	
1,2-Dibromoethane	B[F2758-BLK1	ND	mg/kg	0.0050	0.0010	
Dibromomethane	B[F2758-BLK1	ND	mg/kg	0.0050	0.0018	
1,2-Dichlorobenzene	B[F2758-BLK1	ND	mg/kg	0.0050	0.00081	
1,3-Dichlorobenzene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0014	
1,4-Dichlorobenzene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0015	
Dichlorodifluoromethane	B[F2758-BLK1	ND	mg/kg	0.0050	0.0013	
1,1-Dichloroethane	B[F2758-BLK1	ND	mg/kg	0.0050	0.0014	
1,2-Dichloroethane	B[F2758-BLK1	ND	mg/kg	0.0050	0.00085	
1,1-Dichloroethene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0012	
cis-1,2-Dichloroethene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0013	
trans-1,2-Dichloroethene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0014	
1,2-Dichloropropane	B[F2758-BLK1	ND	mg/kg	0.0050	0.00081	
1,3-Dichloropropane	B[F2758-BLK1	ND	mg/kg	0.0050	0.0011	
2,2-Dichloropropane	B[F2758-BLK1	ND	mg/kg	0.0050	0.0013	
1,1-Dichloropropene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0012	
cis-1,3-Dichloropropene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0011	

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Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[F2758						
trans-1,3-Dichloropropene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0012	
Ethylbenzene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0015	
Hexachlorobutadiene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0017	
Isopropylbenzene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0013	
p-Isopropyltoluene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0013	
Methylene chloride	B[F2758-BLK1	ND	mg/kg	0.010	0.0024	
Methyl t-butyl ether	B[F2758-BLK1	ND	mg/kg	0.0050	0.00050	
Naphthalene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0014	
n-Propylbenzene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0013	
Styrene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0014	
1,1,1,2-Tetrachloroethane	B[F2758-BLK1	ND	mg/kg	0.0050	0.0011	
1,1,2,2-Tetrachloroethane	B[F2758-BLK1	ND	mg/kg	0.0050	0.0011	
Tetrachloroethene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0013	
Toluene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0012	
1,2,3-Trichlorobenzene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0021	
1,2,4-Trichlorobenzene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0020	
1,1,1-Trichloroethane	B[F2758-BLK1	ND	mg/kg	0.0050	0.0011	
1,1,2-Trichloroethane	B[F2758-BLK1	ND	mg/kg	0.0050	0.00077	
Trichloroethene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0011	
Trichlorofluoromethane	B[F2758-BLK1	ND	mg/kg	0.0050	0.0011	
1,2,3-Trichloropropane	B[F2758-BLK1	ND	mg/kg	0.0050	0.0016	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[F2758-BLK1	ND	mg/kg	0.0050	0.0013	
1,2,4-Trimethylbenzene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0013	
1,3,5-Trimethylbenzene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0015	
Vinyl chloride	B[F2758-BLK1	ND	mg/kg	0.0050	0.0016	
Total Xylenes	B[F2758-BLK1	ND	mg/kg	0.010	0.0034	
p- & m-Xylenes	B[F2758-BLK1	ND	mg/kg	0.0050	0.0022	
o-Xylene	B[F2758-BLK1	ND	mg/kg	0.0050	0.0012	
1,2-Dichloroethane-d4 (Surrogate)	**B[F2758-BLK1**	**113**	%	**70 - 121 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**B[F2758-BLK1**	**103**	%	**81 - 117 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**B[F2758-BLK1**	**109**	%	**74 - 121 (LCL - UCL)**		
QC Batch ID: B[F2759						
Benzene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0013	

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Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[F2759						
Bromobenzene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0013	
Bromochloromethane	B[F2759-BLK1	ND	mg/kg	0.0050	0.00092	
Bromodichloromethane	B[F2759-BLK1	ND	mg/kg	0.0050	0.00084	
Bromoform	B[F2759-BLK1	ND	mg/kg	0.0050	0.0015	
Bromomethane	B[F2759-BLK1	ND	mg/kg	0.0050	0.0016	
n-Butylbenzene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0015	
sec-Butylbenzene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0012	
tert-Butylbenzene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0012	
Carbon tetrachloride	B[F2759-BLK1	ND	mg/kg	0.0050	0.0011	
Chlorobenzene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0013	
Chloroethane	B[F2759-BLK1	ND	mg/kg	0.0050	0.0014	
Chloroform	B[F2759-BLK1	ND	mg/kg	0.0050	0.00063	
Chloromethane	B[F2759-BLK1	ND	mg/kg	0.0050	0.0014	
2-Chlorotoluene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0018	
4-Chlorotoluene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0014	
Dibromochloromethane	B[F2759-BLK1	ND	mg/kg	0.0050	0.00099	
1,2-Dibromo-3-chloropropane	B[F2759-BLK1	ND	mg/kg	0.0050	0.0017	
1,2-Dibromoethane	B[F2759-BLK1	ND	mg/kg	0.0050	0.0010	
Dibromomethane	B[F2759-BLK1	ND	mg/kg	0.0050	0.0018	
1,2-Dichlorobenzene	B[F2759-BLK1	ND	mg/kg	0.0050	0.00081	
1,3-Dichlorobenzene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0014	
1,4-Dichlorobenzene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0015	
Dichlorodifluoromethane	B[F2759-BLK1	ND	mg/kg	0.0050	0.0013	
1,1-Dichloroethane	B[F2759-BLK1	ND	mg/kg	0.0050	0.0014	
1,2-Dichloroethane	B[F2759-BLK1	ND	mg/kg	0.0050	0.00085	
1,1-Dichloroethene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0012	
cis-1,2-Dichloroethene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0013	
trans-1,2-Dichloroethene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0014	
1,2-Dichloropropane	B[F2759-BLK1	ND	mg/kg	0.0050	0.00081	
1,3-Dichloropropane	B[F2759-BLK1	ND	mg/kg	0.0050	0.0011	
2,2-Dichloropropane	B[F2759-BLK1	ND	mg/kg	0.0050	0.0013	
1,1-Dichloropropene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0012	
cis-1,3-Dichloropropene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0011	
trans-1,3-Dichloropropene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0012	

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Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[F2759						
Ethylbenzene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0015	
Hexachlorobutadiene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0017	
Isopropylbenzene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0013	
p-Isopropyltoluene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0013	
Methylene chloride	B[F2759-BLK1	ND	mg/kg	0.010	0.0024	
Methyl t-butyl ether	B[F2759-BLK1	ND	mg/kg	0.0050	0.00050	
Naphthalene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0014	
n-Propylbenzene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0013	
Styrene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0014	
1,1,1,2-Tetrachloroethane	B[F2759-BLK1	ND	mg/kg	0.0050	0.0011	
1,1,2,2-Tetrachloroethane	B[F2759-BLK1	ND	mg/kg	0.0050	0.0011	
Tetrachloroethene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0013	
Toluene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0012	
1,2,3-Trichlorobenzene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0021	
1,2,4-Trichlorobenzene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0020	
1,1,1-Trichloroethane	B[F2759-BLK1	ND	mg/kg	0.0050	0.0011	
1,1,2-Trichloroethane	B[F2759-BLK1	ND	mg/kg	0.0050	0.00077	
Trichloroethene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0011	
Trichlorofluoromethane	B[F2759-BLK1	ND	mg/kg	0.0050	0.0011	
1,2,3-Trichloropropane	B[F2759-BLK1	ND	mg/kg	0.0050	0.0016	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[F2759-BLK1	ND	mg/kg	0.0050	0.0013	
1,2,4-Trimethylbenzene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0013	
1,3,5-Trimethylbenzene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0015	
Vinyl chloride	B[F2759-BLK1	ND	mg/kg	0.0050	0.0016	
Total Xylenes	B[F2759-BLK1	ND	mg/kg	0.010	0.0034	
p- & m-Xylenes	B[F2759-BLK1	ND	mg/kg	0.0050	0.0022	
o-Xylene	B[F2759-BLK1	ND	mg/kg	0.0050	0.0012	
1,2-Dichloroethane-d4 (Surrogate)	**B[F2759-BLK1**	**112**	%	**70 - 121 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**B[F2759-BLK1**	**101**	%	**81 - 117 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**B[F2759-BLK1**	**106**	%	**74 - 121 (LCL - UCL)**		

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Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B[F2758										
Benzene	B[F2758-BS1	LCS	0.13342	0.12500	mg/kg	107		70 - 130		
Bromodichloromethane	B[F2758-BS1	LCS	0.14707	0.12500	mg/kg	118		70 - 130		
Chlorobenzene	B[F2758-BS1	LCS	0.12907	0.12500	mg/kg	103		70 - 130		
Chloroethane	B[F2758-BS1	LCS	0.13121	0.12500	mg/kg	105		70 - 130		
1,4-Dichlorobenzene	B[F2758-BS1	LCS	0.13335	0.12500	mg/kg	107		70 - 130		
1,1-Dichloroethane	B[F2758-BS1	LCS	0.13524	0.12500	mg/kg	108		70 - 130		
1,1-Dichloroethene	B[F2758-BS1	LCS	0.12302	0.12500	mg/kg	98.4		70 - 130		
Toluene	B[F2758-BS1	LCS	0.13550	0.12500	mg/kg	108		70 - 130		
Trichloroethene	B[F2758-BS1	LCS	0.13646	0.12500	mg/kg	109		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B[F2758-BS1	LCS	0.053920	0.050000	mg/kg	108		70 - 121		
Toluene-d8 (Surrogate)	B[F2758-BS1	LCS	0.050880	0.050000	mg/kg	102		81 - 117		
4-Bromofluorobenzene (Surrogate)	B[F2758-BS1	LCS	0.054630	0.050000	mg/kg	109		74 - 121		
QC Batch ID: B[F2759										
Benzene	B[F2759-BS1	LCS	0.12063	0.12500	mg/kg	96.5		70 - 130		
Bromodichloromethane	B[F2759-BS1	LCS	0.14165	0.12500	mg/kg	113		70 - 130		
Chlorobenzene	B[F2759-BS1	LCS	0.13389	0.12500	mg/kg	107		70 - 130		
Chloroethane	B[F2759-BS1	LCS	0.11699	0.12500	mg/kg	93.6		70 - 130		
1,4-Dichlorobenzene	B[F2759-BS1	LCS	0.13536	0.12500	mg/kg	108		70 - 130		
1,1-Dichloroethane	B[F2759-BS1	LCS	0.12472	0.12500	mg/kg	99.8		70 - 130		
1,1-Dichloroethene	B[F2759-BS1	LCS	0.11419	0.12500	mg/kg	91.4		70 - 130		
Toluene	B[F2759-BS1	LCS	0.13052	0.12500	mg/kg	104		70 - 130		
Trichloroethene	B[F2759-BS1	LCS	0.13308	0.12500	mg/kg	106		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B[F2759-BS1	LCS	0.053460	0.050000	mg/kg	107		70 - 121		
Toluene-d8 (Surrogate)	B[F2759-BS1	LCS	0.050860	0.050000	mg/kg	102		81 - 117		
4-Bromofluorobenzene (Surrogate)	B[F2759-BS1	LCS	0.053440	0.050000	mg/kg	107		74 - 121		

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Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B[F2758	Used client sample: N										
Benzene	MS	1713532-90	ND	0.13001	0.12500	mg/kg		104		70 - 130	
	MSD	1713532-90	ND	0.13019	0.12500	mg/kg	0.1	104	20	70 - 130	
Bromodichloromethane	MS	1713532-90	ND	0.14883	0.12500	mg/kg		119		70 - 130	
	MSD	1713532-90	ND	0.14681	0.12500	mg/kg	1.4	117	20	70 - 130	
Chlorobenzene	MS	1713532-90	ND	0.12517	0.12500	mg/kg		100		70 - 130	
	MSD	1713532-90	ND	0.12551	0.12500	mg/kg	0.3	100	20	70 - 130	
Chloroethane	MS	1713532-90	ND	0.12660	0.12500	mg/kg		101		70 - 130	
	MSD	1713532-90	ND	0.13103	0.12500	mg/kg	3.4	105	20	70 - 130	
1,4-Dichlorobenzene	MS	1713532-90	ND	0.12260	0.12500	mg/kg		98.1		70 - 130	
	MSD	1713532-90	ND	0.12788	0.12500	mg/kg	4.2	102	20	70 - 130	
1,1-Dichloroethane	MS	1713532-90	ND	0.13034	0.12500	mg/kg		104		70 - 130	
	MSD	1713532-90	ND	0.13527	0.12500	mg/kg	3.7	108	20	70 - 130	
1,1-Dichloroethene	MS	1713532-90	ND	0.11806	0.12500	mg/kg		94.4		70 - 130	
	MSD	1713532-90	ND	0.12273	0.12500	mg/kg	3.9	98.2	20	70 - 130	
Toluene	MS	1713532-90	ND	0.13823	0.12500	mg/kg		111		70 - 130	
	MSD	1713532-90	ND	0.13637	0.12500	mg/kg	1.4	109	20	70 - 130	
Trichloroethene	MS	1713532-90	ND	0.13652	0.12500	mg/kg		109		70 - 130	
	MSD	1713532-90	ND	0.13494	0.12500	mg/kg	1.2	108	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1713532-90	ND	0.054380	0.050000	mg/kg		109		70 - 121	
	MSD	1713532-90	ND	0.054220	0.050000	mg/kg	0.3	108		70 - 121	
Toluene-d8 (Surrogate)	MS	1713532-90	ND	0.051680	0.050000	mg/kg		103		81 - 117	
	MSD	1713532-90	ND	0.051800	0.050000	mg/kg	0.2	104		81 - 117	
4-Bromofluorobenzene (Surrogate)	MS	1713532-90	ND	0.054110	0.050000	mg/kg		108		74 - 121	
	MSD	1713532-90	ND	0.055860	0.050000	mg/kg	3.2	112		74 - 121	
QC Batch ID: B[F2759	Used client sample: N										
Benzene	MS	1713532-91	ND	0.11764	0.12500	mg/kg		94.1		70 - 130	
	MSD	1713532-91	ND	0.11092	0.12500	mg/kg	5.9	88.7	20	70 - 130	
Bromodichloromethane	MS	1713532-91	ND	0.14089	0.12500	mg/kg		113		70 - 130	
	MSD	1713532-91	ND	0.13440	0.12500	mg/kg	4.7	108	20	70 - 130	
Chlorobenzene	MS	1713532-91	ND	0.12994	0.12500	mg/kg		104		70 - 130	
	MSD	1713532-91	ND	0.12575	0.12500	mg/kg	3.3	101	20	70 - 130	
Chloroethane	MS	1713532-91	ND	0.12065	0.12500	mg/kg		96.5		70 - 130	
	MSD	1713532-91	ND	0.11106	0.12500	mg/kg	8.3	88.8	20	70 - 130	
1,4-Dichlorobenzene	MS	1713532-91	ND	0.13268	0.12500	mg/kg		106		70 - 130	
	MSD	1713532-91	ND	0.13187	0.12500	mg/kg	0.6	105	20	70 - 130	
1,1-Dichloroethane	MS	1713532-91	ND	0.12308	0.12500	mg/kg		98.5		70 - 130	
	MSD	1713532-91	ND	0.11484	0.12500	mg/kg	6.9	91.9	20	70 - 130	

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 07/05/2017 10:43
Project: Misc Samples
Project Number: IA756 Marina Faire
Project Manager: Matt Kaempf

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B[F2759	Used client sample: N										
1,1-Dichloroethene	MS	1713532-91	ND	0.11531	0.12500	mg/kg		92.2		70 - 130	
	MSD	1713532-91	ND	0.10540	0.12500	mg/kg	9.0	84.3	20	70 - 130	
Toluene	MS	1713532-91	ND	0.13104	0.12500	mg/kg		105		70 - 130	
	MSD	1713532-91	ND	0.12781	0.12500	mg/kg	2.5	102	20	70 - 130	
Trichloroethene	MS	1713532-91	ND	0.13457	0.12500	mg/kg		108		70 - 130	
	MSD	1713532-91	ND	0.12727	0.12500	mg/kg	5.6	102	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1713532-91	ND	0.052110	0.050000	mg/kg		104		70 - 121	
	MSD	1713532-91	ND	0.053000	0.050000	mg/kg	1.7	106		70 - 121	
Toluene-d8 (Surrogate)	MS	1713532-91	ND	0.050990	0.050000	mg/kg		102		81 - 117	
	MSD	1713532-91	ND	0.051020	0.050000	mg/kg	0.1	102		81 - 117	
4-Bromofluorobenzene (Surrogate)	MS	1713532-91	ND	0.054720	0.050000	mg/kg		109		74 - 121	
	MSD	1713532-91	ND	0.052780	0.050000	mg/kg	3.6	106		74 - 121	

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Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A01	Detection and quantitation limits are raised due to sample dilution.
S09	The surrogate recovery on the sample for this compound was not within the control limits.

Date of Report: 07/20/2017

Matt Paulus

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Client Project:	IA756 Four Seasons
BCL Project:	Misc Samples
BCL Work Order:	1719844
Invoice ID:	B273806

Enclosed are the results of analyses for samples received by the laboratory on 7/19/2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Stuart Buttram
Technical Director

Table of Contents

BC Laboratories, Inc.

Chain of Custody Form

Page ____ of ____

Report To: **Client:** RRM, Inc.	**Project #:** IA756
Attn: Matt Pawlus	**Project Name:** Four Seasons
Street Address: 2560 [illegible] Ave	
City, State, Zip: Santa Cruz CA	**Sampler(s):** Matt P.
Phone: 831-227-4141 **Fax:**	
Email Address: mpawlus@rrmsc.com	
Work Order #: IA756	17-19844

Analysis Requested: HVOCs by 8260

Please refer to the back of this page for completion instructions and method legend.

Comments:

Are there any tests with holding times less than or equal to 48 hours? ☐ Yes ☒ No

* Standard Turnaround = 10 work days

Sample #	Description	Date Sampled	Time Sampled	HVOCs by 8260	Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days*	Notes
1	DRAIN-1'	7/14/17		X	X						1	
2	B-3-7'	7/18/17		X	X						1	

CHK BY: [signature] DISTRIBUTION [signature] SUB-OUT ☐

Billing ☒ Same as above

Client: ____
Address: ____
City: ____ State ____ Zip ____
Attn: ____
PO#: ____

EDF Required? Geotracker ☐ Yes ☐ No

Send Copy to State of CA? (EDT) ☐ Yes ☐ No

Global ID (Needed for EDF)

System # (Needed for EDT)

Relinquished By	Date	Time	Received By	Date	Time
1. [signature]	7/19/17	1220	1. Gary Bogan	7-19-17	1220
2. Gary Bogan	7-19-17	1830	2. [signature]	7/19/17	1830
3. [signature]	7/19/17	2240	3. [signature]	7.19	2240

BC Laboratories, Inc. – 4100 Atlas Ct. – Bakersfield, CA 93308 – 661.327.4911 – Fax: 661.327.1918 – www.bclabs.com

Chain of Custody and Cooler Receipt Form for 1719844 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 17.19844

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ BC Lab Field Service ☒ Other ☐ (Specify)_____	Ice Chest ☒ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐ W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

☒ COC Received ☒ YES ☐ NO

Emissivity 0.95 Container: Vials Thermometer ID: 008 Date/Time 7/19 2240

Temperature: (A) 1.2 °C / (C) 1.5 °C Analyst Init M

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE	A	A								
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: A Date/Time: 7/20 0020

A = Actual / C = Corrected

Rev 21 05/23/2016

[S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20]

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 07/20/2017 16:24
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1719844-01	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/14/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DRAIN-1'	**Lab Matrix:**	Solids
	Sampled By:	Matt Paulus	**Sample Type:**	Soil
1719844-02	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/18/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-3-7'	**Lab Matrix:**	Solids
	Sampled By:	Matt Paulus	**Sample Type:**	Soil

RRM, Inc.
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Santa Cruz, CA 95062

Reported: 07/20/2017 16:24
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719844-01 | **Client Sample Name:** DRAIN-1', 7/14/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	mg/kg	0.025	0.0042	EPA-8260B	ND	A01	1
Bromoform	ND	mg/kg	0.025	0.0075	EPA-8260B	ND	A01	1
Bromomethane	ND	mg/kg	0.025	0.0080	EPA-8260B	ND	A01	1
Carbon tetrachloride	ND	mg/kg	0.025	0.0055	EPA-8260B	ND	A01	1
Chlorobenzene	ND	mg/kg	0.025	0.0065	EPA-8260B	ND	A01	1
Chloroethane	ND	mg/kg	0.025	0.0070	EPA-8260B	ND	A01	1
Chloroform	**0.011**	**mg/kg**	**0.025**	**0.0032**	**EPA-8260B**	ND	**J,A01**	1
Chloromethane	ND	mg/kg	0.025	0.0070	EPA-8260B	ND	A01	1
Dibromochloromethane	ND	mg/kg	0.025	0.0050	EPA-8260B	ND	A01	1
1,2-Dichlorobenzene	ND	mg/kg	0.025	0.0040	EPA-8260B	ND	A01	1
1,3-Dichlorobenzene	**0.011**	**mg/kg**	**0.025**	**0.0070**	**EPA-8260B**	ND	**J,A01**	1
1,4-Dichlorobenzene	ND	mg/kg	0.025	0.0075	EPA-8260B	ND	A01	1
Dichlorodifluoromethane	ND	mg/kg	0.025	0.0065	EPA-8260B	ND	A01	1
1,1-Dichloroethane	ND	mg/kg	0.025	0.0070	EPA-8260B	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.025	0.0042	EPA-8260B	ND	A01	1
1,1-Dichloroethene	**0.025**	**mg/kg**	**0.025**	**0.0060**	**EPA-8260B**	ND	**A01**	1
cis-1,2-Dichloroethene	ND	mg/kg	10	2.6	EPA-8260B	ND	A01	2
trans-1,2-Dichloroethene	**0.27**	**mg/kg**	**0.025**	**0.0070**	**EPA-8260B**	ND	**A01**	1
1,2-Dichloropropane	ND	mg/kg	0.025	0.0040	EPA-8260B	ND	A01	1
cis-1,3-Dichloropropene	ND	mg/kg	0.025	0.0055	EPA-8260B	ND	A01	1
trans-1,3-Dichloropropene	ND	mg/kg	0.025	0.0060	EPA-8260B	ND	A01	1
Methylene chloride	ND	mg/kg	0.050	0.012	EPA-8260B	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	0.025	0.0025	EPA-8260B	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.025	0.0055	EPA-8260B	ND	A01	1
Tetrachloroethene	**7000**	**mg/kg**	**250**	**65**	**EPA-8260B**	ND	**A01**	3
1,1,1-Trichloroethane	ND	mg/kg	0.025	0.0055	EPA-8260B	ND	A01	1
1,1,2-Trichloroethane	ND	mg/kg	0.025	0.0038	EPA-8260B	ND	A01	1
Trichloroethene	**190**	**mg/kg**	**10**	**2.2**	**EPA-8260B**	ND	**A01**	2
Trichlorofluoromethane	ND	mg/kg	0.025	0.0055	EPA-8260B	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.025	0.0065	EPA-8260B	ND	A01	1
Vinyl chloride	ND	mg/kg	0.025	0.0080	EPA-8260B	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	107	%	70 - 121 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	96.4	%	70 - 121 (LCL - UCL)		EPA-8260B			2

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 07/20/2017 16:24
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719844-01 | **Client Sample Name:** DRAIN-1', 7/14/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dichloroethane-d4 (Surrogate)	103	%	70 - 121 (LCL - UCL)		EPA-8260B			3
Toluene-d8 (Surrogate)	92.6	%	81 - 117 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	95.0	%	81 - 117 (LCL - UCL)		EPA-8260B			2
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)		EPA-8260B			3
4-Bromofluorobenzene (Surrogate)	120	%	74 - 121 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	107	%	74 - 121 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)		EPA-8260B			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/20/17	07/20/17 11:19	ADC	MS-V3	5	B[G1250
2	EPA-8260B	07/20/17	07/20/17 13:15	ADC	MS-V3	2000	B[G1250
3	EPA-8260B	07/20/17	07/20/17 15:11	ADC	MS-V3	50000	B[G1250

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Reported: 07/20/2017 16:24
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719844-02 | **Client Sample Name:** B-3-7', 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	mg/kg	0.50	0.084	EPA-8260B	ND	A01	1
Bromoform	ND	mg/kg	0.50	0.15	EPA-8260B	ND	A01	1
Bromomethane	ND	mg/kg	0.50	0.16	EPA-8260B	ND	A01	1
Carbon tetrachloride	ND	mg/kg	0.50	0.11	EPA-8260B	ND	A01	1
Chlorobenzene	ND	mg/kg	0.50	0.13	EPA-8260B	ND	A01	1
Chloroethane	ND	mg/kg	0.50	0.14	EPA-8260B	ND	A01	1
Chloroform	ND	mg/kg	0.50	0.063	EPA-8260B	ND	A01	1
Chloromethane	ND	mg/kg	0.50	0.14	EPA-8260B	ND	A01	1
Dibromochloromethane	ND	mg/kg	0.50	0.099	EPA-8260B	ND	A01	1
1,2-Dichlorobenzene	ND	mg/kg	0.50	0.081	EPA-8260B	ND	A01	1
1,3-Dichlorobenzene	ND	mg/kg	0.50	0.14	EPA-8260B	ND	A01	1
1,4-Dichlorobenzene	ND	mg/kg	0.50	0.15	EPA-8260B	ND	A01	1
Dichlorodifluoromethane	ND	mg/kg	0.50	0.13	EPA-8260B	ND	A01	1
1,1-Dichloroethane	ND	mg/kg	0.50	0.14	EPA-8260B	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.50	0.085	EPA-8260B	ND	A01	1
1,1-Dichloroethene	ND	mg/kg	0.50	0.12	EPA-8260B	ND	A01	1
cis-1,2-Dichloroethene	**1.8**	**mg/kg**	**0.50**	**0.13**	**EPA-8260B**	ND	**A01**	1
trans-1,2-Dichloroethene	ND	mg/kg	0.50	0.14	EPA-8260B	ND	A01	1
1,2-Dichloropropane	ND	mg/kg	0.50	0.081	EPA-8260B	ND	A01	1
cis-1,3-Dichloropropene	ND	mg/kg	0.50	0.11	EPA-8260B	ND	A01	1
trans-1,3-Dichloropropene	ND	mg/kg	0.50	0.12	EPA-8260B	ND	A01	1
Methylene chloride	ND	mg/kg	1.0	0.24	EPA-8260B	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	0.50	0.050	EPA-8260B	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.50	0.11	EPA-8260B	ND	A01	1
Tetrachloroethene	**2300**	**mg/kg**	**100**	**26**	**EPA-8260B**	ND	**A01**	2
1,1,1-Trichloroethane	ND	mg/kg	0.50	0.11	EPA-8260B	ND	A01	1
1,1,2-Trichloroethane	ND	mg/kg	0.50	0.077	EPA-8260B	ND	A01	1
Trichloroethene	**6.1**	**mg/kg**	**0.50**	**0.11**	**EPA-8260B**	ND	**A01**	1
Trichlorofluoromethane	ND	mg/kg	0.50	0.11	EPA-8260B	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.50	0.13	EPA-8260B	ND	A01	1
Vinyl chloride	ND	mg/kg	0.50	0.16	EPA-8260B	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	103	%	70 - 121 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	99.2	%	70 - 121 (LCL - UCL)		EPA-8260B			2

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Santa Cruz, CA 95062

Reported: 07/20/2017 16:24
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719844-02 | **Client Sample Name:** B-3-7', 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Toluene-d8 (Surrogate)	100	%	81 - 117 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.5	%	81 - 117 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.0	%	74 - 121 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/20/17	07/20/17 14:01	ADC	MS-V3	100	B[G1250
2	EPA-8260B	07/20/17	07/20/17 14:47	ADC	MS-V3	20000	B[G1250

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 07/20/2017 16:24
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[G1250						
Bromodichloromethane	B[G1250-BLK1	ND	mg/kg	0.0050	0.00084	
Bromoform	B[G1250-BLK1	ND	mg/kg	0.0050	0.0015	
Bromomethane	B[G1250-BLK1	ND	mg/kg	0.0050	0.0016	
Carbon tetrachloride	B[G1250-BLK1	ND	mg/kg	0.0050	0.0011	
Chlorobenzene	B[G1250-BLK1	ND	mg/kg	0.0050	0.0013	
Chloroethane	B[G1250-BLK1	ND	mg/kg	0.0050	0.0014	
Chloroform	B[G1250-BLK1	ND	mg/kg	0.0050	0.00063	
Chloromethane	B[G1250-BLK1	ND	mg/kg	0.0050	0.0014	
Dibromochloromethane	B[G1250-BLK1	ND	mg/kg	0.0050	0.00099	
1,2-Dichlorobenzene	B[G1250-BLK1	ND	mg/kg	0.0050	0.00081	
1,3-Dichlorobenzene	B[G1250-BLK1	ND	mg/kg	0.0050	0.0014	
1,4-Dichlorobenzene	B[G1250-BLK1	ND	mg/kg	0.0050	0.0015	
Dichlorodifluoromethane	B[G1250-BLK1	ND	mg/kg	0.0050	0.0013	
1,1-Dichloroethane	B[G1250-BLK1	ND	mg/kg	0.0050	0.0014	
1,2-Dichloroethane	B[G1250-BLK1	ND	mg/kg	0.0050	0.00085	
1,1-Dichloroethene	B[G1250-BLK1	ND	mg/kg	0.0050	0.0012	
cis-1,2-Dichloroethene	B[G1250-BLK1	ND	mg/kg	0.0050	0.0013	
trans-1,2-Dichloroethene	B[G1250-BLK1	ND	mg/kg	0.0050	0.0014	
1,2-Dichloropropane	B[G1250-BLK1	ND	mg/kg	0.0050	0.00081	
cis-1,3-Dichloropropene	B[G1250-BLK1	ND	mg/kg	0.0050	0.0011	
trans-1,3-Dichloropropene	B[G1250-BLK1	ND	mg/kg	0.0050	0.0012	
Methylene chloride	B[G1250-BLK1	ND	mg/kg	0.010	0.0024	
Methyl t-butyl ether	B[G1250-BLK1	ND	mg/kg	0.0050	0.00050	
1,1,2,2-Tetrachloroethane	B[G1250-BLK1	ND	mg/kg	0.0050	0.0011	
Tetrachloroethene	B[G1250-BLK1	ND	mg/kg	0.0050	0.0013	
1,1,1-Trichloroethane	B[G1250-BLK1	ND	mg/kg	0.0050	0.0011	
1,1,2-Trichloroethane	B[G1250-BLK1	ND	mg/kg	0.0050	0.00077	
Trichloroethene	B[G1250-BLK1	ND	mg/kg	0.0050	0.0011	
Trichlorofluoromethane	B[G1250-BLK1	ND	mg/kg	0.0050	0.0011	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[G1250-BLK1	ND	mg/kg	0.0050	0.0013	
Vinyl chloride	B[G1250-BLK1	ND	mg/kg	0.0050	0.0016	
1,2-Dichloroethane-d4 (Surrogate)	**B[G1250-BLK1**	**103**	%	**70 - 121 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**B[G1250-BLK1**	**102**	%	**81 - 117 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**B[G1250-BLK1**	**98.5**	%	**74 - 121 (LCL - UCL)**		

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 07/20/2017 16:24
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B[G1250										
Bromodichloromethane	B[G1250-BS1	LCS	0.11725	0.12500	mg/kg	93.8		70 - 130		
Chlorobenzene	B[G1250-BS1	LCS	0.11129	0.12500	mg/kg	89.0		70 - 130		
Chloroethane	B[G1250-BS1	LCS	0.10255	0.12500	mg/kg	82.0		70 - 130		
1,4-Dichlorobenzene	B[G1250-BS1	LCS	0.11143	0.12500	mg/kg	89.1		70 - 130		
1,1-Dichloroethane	B[G1250-BS1	LCS	0.12047	0.12500	mg/kg	96.4		70 - 130		
1,1-Dichloroethene	B[G1250-BS1	LCS	0.11581	0.12500	mg/kg	92.6		70 - 130		
Trichloroethene	B[G1250-BS1	LCS	0.11321	0.12500	mg/kg	90.6		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B[G1250-BS1	LCS	0.053690	0.050000	mg/kg	107		70 - 121		
Toluene-d8 (Surrogate)	B[G1250-BS1	LCS	0.050630	0.050000	mg/kg	101		81 - 117		
4-Bromofluorobenzene (Surrogate)	B[G1250-BS1	LCS	0.051540	0.050000	mg/kg	103		74 - 121		

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 07/20/2017 16:24
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B[G1250	Used client sample: N										
Bromodichloromethane	MS	1717894-45	ND	0.13138	0.12500	mg/kg		105		70 - 130	
	MSD	1717894-45	ND	0.11817	0.12500	mg/kg	10.6	94.5	20	70 - 130	
Chlorobenzene	MS	1717894-45	ND	0.12796	0.12500	mg/kg		102		70 - 130	
	MSD	1717894-45	ND	0.11335	0.12500	mg/kg	12.1	90.7	20	70 - 130	
Chloroethane	MS	1717894-45	ND	0.11664	0.12500	mg/kg		93.3		70 - 130	
	MSD	1717894-45	ND	0.10874	0.12500	mg/kg	7.0	87.0	20	70 - 130	
1,4-Dichlorobenzene	MS	1717894-45	ND	0.12570	0.12500	mg/kg		101		70 - 130	
	MSD	1717894-45	ND	0.11528	0.12500	mg/kg	8.6	92.2	20	70 - 130	
1,1-Dichloroethane	MS	1717894-45	ND	0.13440	0.12500	mg/kg		108		70 - 130	
	MSD	1717894-45	ND	0.12107	0.12500	mg/kg	10.4	96.9	20	70 - 130	
1,1-Dichloroethene	MS	1717894-45	ND	0.13258	0.12500	mg/kg		106		70 - 130	
	MSD	1717894-45	ND	0.11937	0.12500	mg/kg	10.5	95.5	20	70 - 130	
Trichloroethene	MS	1717894-45	ND	0.13098	0.12500	mg/kg		105		70 - 130	
	MSD	1717894-45	ND	0.11600	0.12500	mg/kg	12.1	92.8	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1717894-45	ND	0.050890	0.050000	mg/kg		102		70 - 121	
	MSD	1717894-45	ND	0.052730	0.050000	mg/kg	3.6	105		70 - 121	
Toluene-d8 (Surrogate)	MS	1717894-45	ND	0.051760	0.050000	mg/kg		104		81 - 117	
	MSD	1717894-45	ND	0.050930	0.050000	mg/kg	1.6	102		81 - 117	
4-Bromofluorobenzene (Surrogate)	MS	1717894-45	ND	0.053150	0.050000	mg/kg		106		74 - 121	
	MSD	1717894-45	ND	0.051290	0.050000	mg/kg	3.6	103		74 - 121	

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 07/20/2017 16:24
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A01	Detection and quantitation limits are raised due to sample dilution.

Date of Report: 09/20/2017

Matt Paulus

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Client Project:	IA756 Four Seasons
BCL Project:	Misc Samples
BCL Work Order:	1719851
Invoice ID:	B274285

Enclosed are the results of analyses for samples received by the laboratory on 7/19/2017. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1000646457

Sincerely,

Contact Person: Christina Herndon
Client Service Rep

Stuart Buttram
Technical Director

Table of Contents

Table of Contents

BC Laboratories, Inc. 17-19851

Chain of Custody Form

Page 1 of 2

Report To:
Client: RRM, Inc
Attn: Matt Paulus
Street Address: 2560 Soquel Ave
City, State, Zip: Santa Cruz CA
Phone: 831-227-4148 Fax:
Email Address: mpaulus@rrmsc.com
Work Order #: IA756

Project #: IA756
Project Name: Four Seasons
Sampler(s): Matt P.

Analysis Requested: VOCs by 8260 (Please refer to the back of this page for completion instructions and method legend.)

Comments: RUSH!

Are there any tests with holding times less than or equal to 48 hours? ☐ Yes ☒ No

* Standard Turnaround = 10 work days

Sample #	Description	Date Sampled	Time Sampled	VOCs by 8260	Sample Matrix	Turnaround # of work days*	Notes
1	B-4-4'	7/18/17			Soil X	5	
2	S-10-0.5'	↓			↓	↓	
3	S-11-0.5'	↓			↓	↓	
4	S-12-0.5'	↓			↓	↓	
5	S-13-0.5'	↓			↓	↓	
6	S-14-0.5'	↓			↓	↓	
7	S-15-0.5'	↓			↓	↓	
8	S-16-0.5'	↓			↓	↓	

Sample Matrix: Soil, Sludge, Drinking Water, Ground Water, Waste Water, Other

CHK BY: JKS DISTRIBUTION SUB-OUT ☐

Billing ☒ Same as above
Client:
Address:
City: State Zip
Attn:
PO#:

EDF Required? Geotracker ☐ Yes ☐ No
Send Copy to State of CA? (EDT) ☐ Yes ☐ No

Global ID (Needed for EDF)
System # (Needed for EDT)

Relinquished By	Date	Time	Received By	Date	Time
1. [signature]	7/19/17	1220	1. Gary Bogan	7-19-17	1220
2. Gary Bogan	7-19-17	1830	2. [signature]	7/19/17	1830
3. [signature]	7/19/17	2240	3. [signature]	7/19	2240

BC Laboratories, Inc. – 4100 Atlas Ct. – Bakersfield, CA 93308 – 661.327.4911 – Fax: 661.327.1918 – www.bclabs.com

BC Laboratories, Inc. 17-19851

Chain of Custody Form

Page 2 of 2

Report To: Client: RLM	Project #: IA756		
Attn: Matt Pawlus	Project Name: Four Seasons		
Street Address: 2560 Soquel Ave			
City, State, Zip: Santa Cruz CA	Sampler(s): Matt P.		
Phone: 831-227-4141 Fax:			
Email Address: mpawlus@rlmsc.com			
Work Order #: IA756			

Analysis Requested: HVOCs by 8260

Please refer to the back of this page for completion instructions and method legend.

Comments:

Are there any tests with holding times less than or equal to 48 hours? ☐ Yes ☒ No

* Standard Turnaround = 10 work days

Sample #	Description	Date Sampled	Time Sampled	HVOCs by 8260	Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days*	Notes
9	PIT #1	7/14/17		X				X			5	
10	S-1-3'	↓		↓	X						↓	
11	S-2-3'	↓		↓	↓						↓	
12	S-3-3'	↓		↓	↓						↓	
13	S-4-8'	↓		↓	↓						↓	
14	B-1-6.5'	↓		↓	↓						↓	
15	B-2-5'	↓		↓	↓						↓	
16	S-5-3.5'	7/18/17		↓	↓						↓	
17	S-6-3.5'	↓		↓	↓						↓	
18	S-7-2'	↓		↓	↓						↓	
19	S-8-3.5'	↓		↓	↓						↓	
20	S-9-3.5'	↓		↓	↓						↓	

Billing ☒ Same as above

Client:
Address:
City: State Zip
Attn:
PO#:

EDF Required? Geotracker ☐ Yes ☐ No

Send Copy to State of CA? (EDT) ☐ Yes ☐ No

Global ID (Needed for EDF)

System # (Needed for EDT)

Relinquished By	Date	Time	Received By	Date	Time
1. [signature]	7/19/17	1220	1. Gary Bogan	7-19-17	1220
2. Gary Bogan	7-19-17	1830	2. BCS0	7/19/17	1830
3. BCS0	7/19/17	2240	3. [signature]	7·19	2240

BC Laboratories, Inc. – 4100 Atlas Ct. – Bakersfield, CA 93308 – 661.327.4911 – Fax: 661.327.1918 – www.bclabs.com

Chain of Custody and Cooler Receipt Form for 1719851 Page 3 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 2

Submission #: 7-19851

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ BC Lab Field Service ☒ Other ☐ (Specify)_____	Ice Chest ☒ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐ W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

☒ COC Received ☒ YES ☐ NO

Emissivity 0.95 Container: Vcan Thermometer ID: 008 Date/Time 7/19/17 0240

Temperature: (A) 1.2 °C / (C) 1.5 °C Analyst Init JM

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL 624									ABC	
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE 504	A	A	A	A	A	A	A	A		A
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:_____

Sample Numbering Completed By: JDC Date/Time: 7-20-17 0904 Rev 21 05/23/2016

A = Actual / C = Corrected

(S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20)

Chain of Custody and Cooler Receipt Form for 1719851 Page 4 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 of 2

Submission #: 17-19851

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

☒ COC Received ☒ YES ☐ NO

Emissivity 0.95 Container: Vials Thermometer ID: 008 Date/Time 7/19 2240

Temperature: (A) 1.2 °C / (C) 1.5 °C Analyst Init JM

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE x04	A	A	A	A	A	A	A	A	A	A
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: JDL Date/Time: 7-20-17 0904

A = Actual / C = Corrected

Rev 21 05/23/2016
[S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20]

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1719851-01	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/18/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-4-4'	**Lab Matrix:**	Solids
	Sampled By:	Matt Paulus	**Sample Type:**	Soil
1719851-02	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/18/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-10-2	**Lab Matrix:**	Solids
	Sampled By:	Matt Paulus	**Sample Type:**	Soil
1719851-03	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/18/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-11-2	**Lab Matrix:**	Solids
	Sampled By:	Matt Paulus	**Sample Type:**	Soil
1719851-04	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/18/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-12-2	**Lab Matrix:**	Solids
	Sampled By:	Matt Paulus	**Sample Type:**	Soil
1719851-05	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/18/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-13-2	**Lab Matrix:**	Solids
	Sampled By:	Matt Paulus	**Sample Type:**	Soil
1719851-06	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/18/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-14-2	**Lab Matrix:**	Solids
	Sampled By:	Matt Paulus	**Sample Type:**	Soil
1719851-07	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/18/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-15-2	**Lab Matrix:**	Solids
	Sampled By:	Matt Paulus	**Sample Type:**	Soil

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1719851-08	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/18/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-16-2	**Lab Matrix:**	Solids
	Sampled By:	Matt Paulus	**Sample Type:**	Soil
1719851-09	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/14/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	PIT #1	**Lab Matrix:**	Water
	Sampled By:	Matt Paulus	**Sample Type:**	Groundwater
1719851-10	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/14/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	S-1-3'	**Lab Matrix:**	Solids
	Sampled By:	Matt Paulus	**Sample Type:**	Soil
1719851-11	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/14/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	S-2-3'	**Lab Matrix:**	Solids
	Sampled By:	Matt Paulus	**Sample Type:**	Soil
1719851-12	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/14/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	S-3-3'	**Lab Matrix:**	Solids
	Sampled By:	Matt Paulus	**Sample Type:**	Soil
1719851-13	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/14/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	S-4-3'	**Lab Matrix:**	Solids
	Sampled By:	Matt Paulus	**Sample Type:**	Soil
1719851-14	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/14/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-1-6.5'	**Lab Matrix:**	Solids
	Sampled By:	Matt Paulus	**Sample Type:**	Soil

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Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1719851-15	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/14/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-2-5'	**Lab Matrix:**	Solids
	Sampled By:	Matt Paulus	**Sample Type:**	Soil
1719851-16	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/18/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	S-5-3.5'	**Lab Matrix:**	Solids
	Sampled By:	Matt Paulus	**Sample Type:**	Soil
1719851-17	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/18/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	S-6-3.5'	**Lab Matrix:**	Solids
	Sampled By:	Matt Paulus	**Sample Type:**	Soil
1719851-18	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/18/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	S-7-2'	**Lab Matrix:**	Solids
	Sampled By:	Matt Paulus	**Sample Type:**	Soil
1719851-19	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/18/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	S-8-3.5'	**Lab Matrix:**	Solids
	Sampled By:	Matt Paulus	**Sample Type:**	Soil
1719851-20	**COC Number:**	---	**Receive Date:**	07/19/2017 22:40
	Project Number:	---	**Sampling Date:**	07/18/2017 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	S-9-3.5'	**Lab Matrix:**	Solids
	Sampled By:	Matt Paulus	**Sample Type:**	Soil

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-01 | **Client Sample Name:** B-4-4', 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	**0.015**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**1.4**	**mg/kg**	**0.25**	**0.065**	**EPA-8260B**	ND	**A01**	2
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.032**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	70 - 121 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	109	%	70 - 121 (LCL - UCL)		EPA-8260B			2

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-01 | **Client Sample Name:** B-4-4', 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Toluene-d8 (Surrogate)	99.9	%	81 - 117 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.6	%	81 - 117 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	103	%	74 - 121 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.4	%	74 - 121 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/20/17	07/20/17 23:38	ADC	MS-V3	1	B[G1553
2	EPA-8260B	07/20/17	07/21/17 14:02	ADC	MS-V3	50	B[G1553

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-02 | **Client Sample Name:** B-10-2, 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	**0.0063**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**3.4**	**mg/kg**	**0.25**	**0.065**	**EPA-8260B**	ND	**A01**	2
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.057**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	97.9	%	81 - 117 (LCL - UCL)		EPA-8260B			1

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Project: Misc Samples
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Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-02 | **Client Sample Name:** B-10-2, 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	74 - 121 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/20/17	07/21/17 00:01	ADC	MS-V3	1	B[G1553
2	EPA-8260B	07/20/17	07/21/17 14:25	ADC	MS-V3	50	B[G1553

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-03 | **Client Sample Name:** B-11-2, 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**0.36**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.037**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	100	%	81 - 117 (LCL - UCL)		EPA-8260B			1

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-03 | **Client Sample Name:** B-11-2, 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Bromofluorobenzene (Surrogate)	103	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/20/17	07/21/17 00:24	ADC	MS-V3	1	B[G1553

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-04 | **Client Sample Name:** B-12-2, 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	**0.0042**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND	**J**	1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**0.29**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.029**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)		EPA-8260B			1

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-04 | **Client Sample Name:** B-12-2, 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/20/17	07/21/17 09:48	ADC	MS-V3	1	B[G1553

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-05 | **Client Sample Name:** B-13-2, 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	**0.0020**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND	**J**	1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**0.26**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.033**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)		EPA-8260B			1

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Santa Cruz, CA 95062

Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-05 | **Client Sample Name:** B-13-2, 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Bromofluorobenzene (Surrogate)	96.1	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/20/17	07/21/17 13:16	ADC	MS-V3	1	B[G1553

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-06 | **Client Sample Name:** B-14-2, 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	**0.0025**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND	**J**	1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**0.43**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.052**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	96.7	%	81 - 117 (LCL - UCL)		EPA-8260B			1

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-06 | **Client Sample Name:** B-14-2, 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Bromofluorobenzene (Surrogate)	99.0	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/20/17	07/21/17 01:33	ADC	MS-V3	1	B[G1553

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-07 | **Client Sample Name:** B-15-2, 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	**0.0036**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND	**J**	1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**3.1**	**mg/kg**	**0.25**	**0.065**	**EPA-8260B**	ND	**A01**	2
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.049**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	70 - 121 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	102	%	70 - 121 (LCL - UCL)		EPA-8260B			2

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-07 | **Client Sample Name:** B-15-2, 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Toluene-d8 (Surrogate)	99.4	%	81 - 117 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	105	%	81 - 117 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	101	%	74 - 121 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/20/17	07/21/17 01:56	ADC	MS-V3	1	B[G1553
2	EPA-8260B	07/20/17	07/21/17 14:48	ADC	MS-V3	50	B[G1553

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-08 | **Client Sample Name:** B-16-2, 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	**0.0015**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND	**J**	1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**0.47**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.036**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)		EPA-8260B			1

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-08 | **Client Sample Name:** B-16-2, 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Bromofluorobenzene (Surrogate)	96.6	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/20/17	07/21/17 02:19	ADC	MS-V3	1	B[G1553

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B, 8010 List)

BCL Sample ID: 1719851-09 | **Client Sample Name:** PIT #1, 7/14/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260B	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260B	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Chloroform	**0.26**	**ug/L**	**0.50**	**0.12**	**EPA-8260B**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260B	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
1,1-Dichloroethene	**0.36**	**ug/L**	**0.50**	**0.18**	**EPA-8260B**	ND	**J**	1
cis-1,2-Dichloroethene	**5.9**	**ug/L**	**0.50**	**0.085**	**EPA-8260B**	ND		1
trans-1,2-Dichloroethene	**0.65**	**ug/L**	**0.50**	**0.15**	**EPA-8260B**	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260B	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Tetrachloroethene	**2300**	**ug/L**	**25**	**6.5**	**EPA-8260B**	ND	**A01**	2
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Trichloroethene	**120**	**ug/L**	**25**	**4.2**	**EPA-8260B**	ND	**A01**	2
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	97.8	%	75 - 125 (LCL - UCL)		EPA-8260B			2
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-8260B			1

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B, 8010 List)

BCL Sample ID: 1719851-09 | **Client Sample Name:** PIT #1, 7/14/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	97.1	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.0	%	80 - 120 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/20/17	07/22/17 13:49	MGC	MS-V5	1	B[G1677
2	EPA-8260B	07/20/17	07/24/17 13:31	MGC	MS-V5	50	B[G1677

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-10 | **Client Sample Name:** S-1-3', 7/14/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**0.21**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.0037**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND	**J**	1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	100	%	81 - 117 (LCL - UCL)		EPA-8260B			1

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-10 | **Client Sample Name:** S-1-3', 7/14/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/20/17	07/21/17 02:42	ADC	MS-V3	1	B[G1553

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2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-11 | **Client Sample Name:** S-2-3', 7/14/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**0.26**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.0062**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.1	%	81 - 117 (LCL - UCL)		EPA-8260B			1

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-11 | **Client Sample Name:** S-2-3', 7/14/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Bromofluorobenzene (Surrogate)	101	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/20/17	07/21/17 13:39	ADC	MS-V3	1	B[G1553

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2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-12 | **Client Sample Name:** S-3-3', 7/14/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**0.24**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.0043**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND	**J**	1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.6	%	81 - 117 (LCL - UCL)		EPA-8260B			1

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-12 | **Client Sample Name:** S-3-3', 7/14/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/20/17	07/21/17 10:58	ADC	MS-V3	1	B[G1553

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-13 | **Client Sample Name:** S-4-3', 7/14/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**0.36**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.012**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.2	%	81 - 117 (LCL - UCL)		EPA-8260B			1

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-13 | **Client Sample Name:** S-4-3', 7/14/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/20/17	07/21/17 11:21	ADC	MS-V3	1	B[G1553

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-14 | **Client Sample Name:** B-1-6.5', 7/14/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**0.16**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.0071**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	115	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)		EPA-8260B			1

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-14 | **Client Sample Name:** B-1-6.5', 7/14/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/20/17	07/21/17 04:15	ADC	MS-V3	1	B[G1553

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2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-15 | **Client Sample Name:** B-2-5', 7/14/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	**0.0048**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND	**J**	1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**1.9**	**mg/kg**	**0.25**	**0.065**	**EPA-8260B**	ND	**A01**	2
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.022**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	70 - 121 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	108	%	70 - 121 (LCL - UCL)		EPA-8260B			2

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-15 | **Client Sample Name:** B-2-5', 7/14/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Toluene-d8 (Surrogate)	99.6	%	81 - 117 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	100	%	81 - 117 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	98.3	%	74 - 121 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/20/17	07/21/17 04:38	ADC	MS-V3	1	B[G1553
2	EPA-8260B	07/20/17	07/21/17 15:11	ADC	MS-V3	50	B[G1553

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Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-16 | **Client Sample Name:** S-5-3.5', 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	**0.048**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**8.9**	**mg/kg**	**1.0**	**0.26**	**EPA-8260B**	ND	**A01**	2
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.078**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	70 - 121 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	104	%	70 - 121 (LCL - UCL)		EPA-8260B			2

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Project: Misc Samples
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Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-16 | **Client Sample Name:** S-5-3.5', 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.1	%	81 - 117 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	106	%	74 - 121 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	101	%	74 - 121 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/20/17	07/21/17 05:01	ADC	MS-V3	1	B[G1553
2	EPA-8260B	07/20/17	07/21/17 15:35	ADC	MS-V3	200	B[G1553

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Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-17 | **Client Sample Name:** S-6-3.5', 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	**0.039**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**3.4**	**mg/kg**	**0.25**	**0.065**	**EPA-8260B**	ND	**A01**	2
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.027**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	70 - 121 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	100	%	70 - 121 (LCL - UCL)		EPA-8260B			2

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Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-17 | **Client Sample Name:** S-6-3.5', 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	103	%	74 - 121 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/20/17	07/21/17 11:44	ADC	MS-V3	1	B[G1553
2	EPA-8260B	07/20/17	07/24/17 12:34	ADC	MS-V3	50	B[G1553

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Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-18 | **Client Sample Name:** S-7-2', 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	**0.024**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**0.44**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.065**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	100	%	81 - 117 (LCL - UCL)		EPA-8260B			1

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Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-18 | **Client Sample Name:** S-7-2', 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/20/17	07/21/17 12:07	ADC	MS-V3	1	B[G1553

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Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-19 | **Client Sample Name:** S-8-3.5', 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	**0.036**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**2.8**	**mg/kg**	**0.25**	**0.065**	**EPA-8260B**	ND	**A01**	2
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.048**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	70 - 121 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	101	%	70 - 121 (LCL - UCL)		EPA-8260B			2

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-19 | **Client Sample Name:** S-8-3.5', 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Toluene-d8 (Surrogate)	104	%	81 - 117 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	104	%	81 - 117 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	101	%	74 - 121 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/21/17	07/21/17 12:30	ADC	MS-V3	1	B[G1758
2	EPA-8260B	07/21/17	07/24/17 12:58	ADC	MS-V3	50	B[G1758

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-20 | **Client Sample Name:** S-9-3.5', 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
cis-1,2-Dichloroethene	**0.034**	**mg/kg**	**0.0050**	**0.0013**	**EPA-8260B**	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Tetrachloroethene	**4.6**	**mg/kg**	**0.25**	**0.065**	**EPA-8260B**	ND	**A01**	2
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Trichloroethene	**0.038**	**mg/kg**	**0.0050**	**0.0011**	**EPA-8260B**	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	70 - 121 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	98.2	%	70 - 121 (LCL - UCL)		EPA-8260B			2

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1719851-20 | **Client Sample Name:** S-9-3.5', 7/18/2017 12:00:00AM, Matt Paulus

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	107	%	74 - 121 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	100	%	74 - 121 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/21/17	07/24/17 12:11	ADC	MS-V3	1	B[G1758
2	EPA-8260B	07/21/17	07/25/17 13:43	ADC	MS-V3	50	B[G1758

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Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[G1553						
Bromodichloromethane	B[G1553-BLK1	ND	mg/kg	0.0050	0.00084	
Bromoform	B[G1553-BLK1	ND	mg/kg	0.0050	0.0015	
Bromomethane	B[G1553-BLK1	ND	mg/kg	0.0050	0.0016	
Carbon tetrachloride	B[G1553-BLK1	ND	mg/kg	0.0050	0.0011	
Chlorobenzene	B[G1553-BLK1	ND	mg/kg	0.0050	0.0013	
Chloroethane	B[G1553-BLK1	ND	mg/kg	0.0050	0.0014	
Chloroform	B[G1553-BLK1	ND	mg/kg	0.0050	0.00063	
Chloromethane	B[G1553-BLK1	ND	mg/kg	0.0050	0.0014	
Dibromochloromethane	B[G1553-BLK1	ND	mg/kg	0.0050	0.00099	
1,2-Dichlorobenzene	B[G1553-BLK1	ND	mg/kg	0.0050	0.00081	
1,3-Dichlorobenzene	B[G1553-BLK1	ND	mg/kg	0.0050	0.0014	
1,4-Dichlorobenzene	B[G1553-BLK1	ND	mg/kg	0.0050	0.0015	
Dichlorodifluoromethane	B[G1553-BLK1	ND	mg/kg	0.0050	0.0013	
1,1-Dichloroethane	B[G1553-BLK1	ND	mg/kg	0.0050	0.0014	
1,2-Dichloroethane	B[G1553-BLK1	ND	mg/kg	0.0050	0.00085	
1,1-Dichloroethene	B[G1553-BLK1	ND	mg/kg	0.0050	0.0012	
cis-1,2-Dichloroethene	B[G1553-BLK1	ND	mg/kg	0.0050	0.0013	
trans-1,2-Dichloroethene	B[G1553-BLK1	ND	mg/kg	0.0050	0.0014	
1,2-Dichloropropane	B[G1553-BLK1	ND	mg/kg	0.0050	0.00081	
cis-1,3-Dichloropropene	B[G1553-BLK1	ND	mg/kg	0.0050	0.0011	
trans-1,3-Dichloropropene	B[G1553-BLK1	ND	mg/kg	0.0050	0.0012	
Methylene chloride	B[G1553-BLK1	ND	mg/kg	0.010	0.0024	
Methyl t-butyl ether	B[G1553-BLK1	ND	mg/kg	0.0050	0.00050	
1,1,2,2-Tetrachloroethane	B[G1553-BLK1	ND	mg/kg	0.0050	0.0011	
Tetrachloroethene	B[G1553-BLK1	ND	mg/kg	0.0050	0.0013	
1,1,1-Trichloroethane	B[G1553-BLK1	ND	mg/kg	0.0050	0.0011	
1,1,2-Trichloroethane	B[G1553-BLK1	ND	mg/kg	0.0050	0.00077	
Trichloroethene	B[G1553-BLK1	ND	mg/kg	0.0050	0.0011	
Trichlorofluoromethane	B[G1553-BLK1	ND	mg/kg	0.0050	0.0011	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[G1553-BLK1	ND	mg/kg	0.0050	0.0013	
Vinyl chloride	B[G1553-BLK1	ND	mg/kg	0.0050	0.0016	
1,2-Dichloroethane-d4 (Surrogate)	**B[G1553-BLK1**	**101**	%	**70 - 121 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**B[G1553-BLK1**	**99.7**	%	**81 - 117 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**B[G1553-BLK1**	**102**	%	**74 - 121 (LCL - UCL)**		

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[G1758						
Bromodichloromethane	B[G1758-BLK1	ND	mg/kg	0.0050	0.00084	
Bromoform	B[G1758-BLK1	ND	mg/kg	0.0050	0.0015	
Bromomethane	B[G1758-BLK1	ND	mg/kg	0.0050	0.0016	
Carbon tetrachloride	B[G1758-BLK1	ND	mg/kg	0.0050	0.0011	
Chlorobenzene	B[G1758-BLK1	ND	mg/kg	0.0050	0.0013	
Chloroethane	B[G1758-BLK1	ND	mg/kg	0.0050	0.0014	
Chloroform	B[G1758-BLK1	ND	mg/kg	0.0050	0.00063	
Chloromethane	B[G1758-BLK1	ND	mg/kg	0.0050	0.0014	
Dibromochloromethane	B[G1758-BLK1	ND	mg/kg	0.0050	0.00099	
1,2-Dichlorobenzene	B[G1758-BLK1	ND	mg/kg	0.0050	0.00081	
1,3-Dichlorobenzene	B[G1758-BLK1	ND	mg/kg	0.0050	0.0014	
1,4-Dichlorobenzene	B[G1758-BLK1	ND	mg/kg	0.0050	0.0015	
Dichlorodifluoromethane	B[G1758-BLK1	ND	mg/kg	0.0050	0.0013	
1,1-Dichloroethane	B[G1758-BLK1	ND	mg/kg	0.0050	0.0014	
1,2-Dichloroethane	B[G1758-BLK1	ND	mg/kg	0.0050	0.00085	
1,1-Dichloroethene	B[G1758-BLK1	ND	mg/kg	0.0050	0.0012	
cis-1,2-Dichloroethene	B[G1758-BLK1	ND	mg/kg	0.0050	0.0013	
trans-1,2-Dichloroethene	B[G1758-BLK1	ND	mg/kg	0.0050	0.0014	
1,2-Dichloropropane	B[G1758-BLK1	ND	mg/kg	0.0050	0.00081	
cis-1,3-Dichloropropene	B[G1758-BLK1	ND	mg/kg	0.0050	0.0011	
trans-1,3-Dichloropropene	B[G1758-BLK1	ND	mg/kg	0.0050	0.0012	
Methylene chloride	B[G1758-BLK1	ND	mg/kg	0.010	0.0024	
Methyl t-butyl ether	B[G1758-BLK1	ND	mg/kg	0.0050	0.00050	
1,1,2,2-Tetrachloroethane	B[G1758-BLK1	ND	mg/kg	0.0050	0.0011	
Tetrachloroethene	B[G1758-BLK1	ND	mg/kg	0.0050	0.0013	
1,1,1-Trichloroethane	B[G1758-BLK1	ND	mg/kg	0.0050	0.0011	
1,1,2-Trichloroethane	B[G1758-BLK1	ND	mg/kg	0.0050	0.00077	
Trichloroethene	B[G1758-BLK1	ND	mg/kg	0.0050	0.0011	
Trichlorofluoromethane	B[G1758-BLK1	ND	mg/kg	0.0050	0.0011	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[G1758-BLK1	ND	mg/kg	0.0050	0.0013	
Vinyl chloride	B[G1758-BLK1	ND	mg/kg	0.0050	0.0016	
1,2-Dichloroethane-d4 (Surrogate)	**B[G1758-BLK1**	**99.5**	%	**70 - 121 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**B[G1758-BLK1**	**95.9**	%	**81 - 117 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**B[G1758-BLK1**	**99.7**	%	**74 - 121 (LCL - UCL)**		

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Reported: 09/20/2017 9:31
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Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B[G1553										
Bromodichloromethane	B[G1553-BS1	LCS	0.12257	0.12500	mg/kg	98.1		70 - 130		
Chlorobenzene	B[G1553-BS1	LCS	0.13129	0.12500	mg/kg	105		70 - 130		
Chloroethane	B[G1553-BS1	LCS	0.10605	0.12500	mg/kg	84.8		70 - 130		
1,4-Dichlorobenzene	B[G1553-BS1	LCS	0.12401	0.12500	mg/kg	99.2		70 - 130		
1,1-Dichloroethane	B[G1553-BS1	LCS	0.12819	0.12500	mg/kg	103		70 - 130		
1,1-Dichloroethene	B[G1553-BS1	LCS	0.12727	0.12500	mg/kg	102		70 - 130		
Trichloroethene	B[G1553-BS1	LCS	0.12852	0.12500	mg/kg	103		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B[G1553-BS1	LCS	0.049400	0.050000	mg/kg	98.8		70 - 121		
Toluene-d8 (Surrogate)	B[G1553-BS1	LCS	0.050810	0.050000	mg/kg	102		81 - 117		
4-Bromofluorobenzene (Surrogate)	B[G1553-BS1	LCS	0.051620	0.050000	mg/kg	103		74 - 121		
QC Batch ID: B[G1758										
Bromodichloromethane	B[G1758-BS1	LCS	0.12427	0.12500	mg/kg	99.4		70 - 130		
Chlorobenzene	B[G1758-BS1	LCS	0.13487	0.12500	mg/kg	108		70 - 130		
Chloroethane	B[G1758-BS1	LCS	0.10537	0.12500	mg/kg	84.3		70 - 130		
1,4-Dichlorobenzene	B[G1758-BS1	LCS	0.12894	0.12500	mg/kg	103		70 - 130		
1,1-Dichloroethane	B[G1758-BS1	LCS	0.12752	0.12500	mg/kg	102		70 - 130		
1,1-Dichloroethene	B[G1758-BS1	LCS	0.11931	0.12500	mg/kg	95.4		70 - 130		
Trichloroethene	B[G1758-BS1	LCS	0.12774	0.12500	mg/kg	102		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B[G1758-BS1	LCS	0.047660	0.050000	mg/kg	95.3		70 - 121		
Toluene-d8 (Surrogate)	B[G1758-BS1	LCS	0.051180	0.050000	mg/kg	102		81 - 117		
4-Bromofluorobenzene (Surrogate)	B[G1758-BS1	LCS	0.052710	0.050000	mg/kg	105		74 - 121		

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B[G1553	Used client sample: N										
Bromodichloromethane	MS	1717894-47	ND	0.12369	0.12500	mg/kg		99.0		70 - 130	
	MSD	1717894-47	ND	0.11951	0.12500	mg/kg	3.4	95.6	20	70 - 130	
Chlorobenzene	MS	1717894-47	ND	0.13281	0.12500	mg/kg		106		70 - 130	
	MSD	1717894-47	ND	0.12954	0.12500	mg/kg	2.5	104	20	70 - 130	
Chloroethane	MS	1717894-47	ND	0.10365	0.12500	mg/kg		82.9		70 - 130	
	MSD	1717894-47	ND	0.11158	0.12500	mg/kg	7.4	89.3	20	70 - 130	
1,4-Dichlorobenzene	MS	1717894-47	ND	0.12498	0.12500	mg/kg		100		70 - 130	
	MSD	1717894-47	ND	0.12406	0.12500	mg/kg	0.7	99.2	20	70 - 130	
1,1-Dichloroethane	MS	1717894-47	ND	0.12682	0.12500	mg/kg		101		70 - 130	
	MSD	1717894-47	ND	0.13159	0.12500	mg/kg	3.7	105	20	70 - 130	
1,1-Dichloroethene	MS	1717894-47	ND	0.12634	0.12500	mg/kg		101		70 - 130	
	MSD	1717894-47	ND	0.13080	0.12500	mg/kg	3.5	105	20	70 - 130	
Trichloroethene	MS	1717894-47	ND	0.12933	0.12500	mg/kg		103		70 - 130	
	MSD	1717894-47	ND	0.12921	0.12500	mg/kg	0.1	103	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1717894-47	ND	0.050110	0.050000	mg/kg		100		70 - 121	
	MSD	1717894-47	ND	0.050500	0.050000	mg/kg	0.8	101		70 - 121	
Toluene-d8 (Surrogate)	MS	1717894-47	ND	0.049780	0.050000	mg/kg		99.6		81 - 117	
	MSD	1717894-47	ND	0.051120	0.050000	mg/kg	2.7	102		81 - 117	
4-Bromofluorobenzene (Surrogate)	MS	1717894-47	ND	0.052020	0.050000	mg/kg		104		74 - 121	
	MSD	1717894-47	ND	0.049680	0.050000	mg/kg	4.6	99.4		74 - 121	
QC Batch ID: B[G1758	Used client sample: N										
Bromodichloromethane	MS	1717894-48	ND	0.12821	0.12500	mg/kg		103		70 - 130	
	MSD	1717894-48	ND	0.12473	0.12500	mg/kg	2.8	99.8	20	70 - 130	
Chlorobenzene	MS	1717894-48	ND	0.13156	0.12500	mg/kg		105		70 - 130	
	MSD	1717894-48	ND	0.13206	0.12500	mg/kg	0.4	106	20	70 - 130	
Chloroethane	MS	1717894-48	ND	0.10850	0.12500	mg/kg		86.8		70 - 130	
	MSD	1717894-48	ND	0.10462	0.12500	mg/kg	3.6	83.7	20	70 - 130	
1,4-Dichlorobenzene	MS	1717894-48	ND	0.12391	0.12500	mg/kg		99.1		70 - 130	
	MSD	1717894-48	ND	0.12425	0.12500	mg/kg	0.3	99.4	20	70 - 130	
1,1-Dichloroethane	MS	1717894-48	ND	0.12774	0.12500	mg/kg		102		70 - 130	
	MSD	1717894-48	ND	0.12722	0.12500	mg/kg	0.4	102	20	70 - 130	
1,1-Dichloroethene	MS	1717894-48	ND	0.12323	0.12500	mg/kg		98.6		70 - 130	
	MSD	1717894-48	ND	0.12407	0.12500	mg/kg	0.7	99.3	20	70 - 130	
Trichloroethene	MS	1717894-48	ND	0.12755	0.12500	mg/kg		102		70 - 130	
	MSD	1717894-48	ND	0.12748	0.12500	mg/kg	0.1	102	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1717894-48	ND	0.049070	0.050000	mg/kg		98.1		70 - 121	
	MSD	1717894-48	ND	0.048660	0.050000	mg/kg	0.8	97.3		70 - 121	

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Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B[G1758	Used client sample: N										
Toluene-d8 (Surrogate)	MS	1717894-48	ND	0.050010	0.050000	mg/kg		100		81 - 117	
	MSD	1717894-48	ND	0.051050	0.050000	mg/kg	2.1	102		81 - 117	
4-Bromofluorobenzene (Surrogate)	MS	1717894-48	ND	0.051500	0.050000	mg/kg		103		74 - 121	
	MSD	1717894-48	ND	0.050010	0.050000	mg/kg	2.9	100		74 - 121	

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B, 8010 List)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[G1677						
Bromodichloromethane	B[G1677-BLK1	ND	ug/L	0.50	0.14	
Bromoform	B[G1677-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	B[G1677-BLK1	ND	ug/L	1.0	0.25	
Carbon tetrachloride	B[G1677-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	B[G1677-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	B[G1677-BLK1	ND	ug/L	0.50	0.14	
Chloroform	B[G1677-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	B[G1677-BLK1	ND	ug/L	0.50	0.14	
Dibromochloromethane	B[G1677-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichlorobenzene	B[G1677-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	B[G1677-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	B[G1677-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	B[G1677-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	B[G1677-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	B[G1677-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B[G1677-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	B[G1677-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	B[G1677-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	B[G1677-BLK1	ND	ug/L	0.50	0.13	
cis-1,3-Dichloropropene	B[G1677-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	B[G1677-BLK1	ND	ug/L	0.50	0.079	
Methylene chloride	B[G1677-BLK1	ND	ug/L	1.0	0.48	
1,1,2,2-Tetrachloroethane	B[G1677-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B[G1677-BLK1	ND	ug/L	0.50	0.13	
1,1,1-Trichloroethane	B[G1677-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	B[G1677-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	B[G1677-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	B[G1677-BLK1	ND	ug/L	0.50	0.13	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[G1677-BLK1	ND	ug/L	0.50	0.15	
Vinyl chloride	B[G1677-BLK1	ND	ug/L	0.50	0.12	
1,2-Dichloroethane-d4 (Surrogate)	**B[G1677-BLK1**	**102**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**B[G1677-BLK1**	**97.7**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**B[G1677-BLK1**	**96.4**	%	**80 - 120 (LCL - UCL)**		

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B, 8010 List)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B[G1677										
Bromodichloromethane	B[G1677-BS1	LCS	24.110	25.000	ug/L	96.4		70 - 130		
Chlorobenzene	B[G1677-BS1	LCS	22.190	25.000	ug/L	88.8		70 - 130		
Chloroethane	B[G1677-BS1	LCS	23.230	25.000	ug/L	92.9		70 - 130		
1,4-Dichlorobenzene	B[G1677-BS1	LCS	22.710	25.000	ug/L	90.8		70 - 130		
1,1-Dichloroethane	B[G1677-BS1	LCS	24.380	25.000	ug/L	97.5		70 - 130		
1,1-Dichloroethene	B[G1677-BS1	LCS	27.100	25.000	ug/L	108		70 - 130		
Trichloroethene	B[G1677-BS1	LCS	26.570	25.000	ug/L	106		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B[G1677-BS1	LCS	9.7500	10.000	ug/L	97.5		75 - 125		
Toluene-d8 (Surrogate)	B[G1677-BS1	LCS	10.010	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	B[G1677-BS1	LCS	9.8300	10.000	ug/L	98.3		80 - 120		

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Volatile Organic Analysis (EPA Method 8260B, 8010 List)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B[G1677	Used client sample: N										
Bromodichloromethane	MS	1719518-01	ND	25.610	25.000	ug/L		102		70 - 130	
	MSD	1719518-01	ND	25.510	25.000	ug/L	0.4	102	20	70 - 130	
Chlorobenzene	MS	1719518-01	ND	24.060	25.000	ug/L		96.2		70 - 130	
	MSD	1719518-01	ND	22.950	25.000	ug/L	4.7	91.8	20	70 - 130	
Chloroethane	MS	1719518-01	ND	25.180	25.000	ug/L		101		70 - 130	
	MSD	1719518-01	ND	24.590	25.000	ug/L	2.4	98.4	20	70 - 130	
1,4-Dichlorobenzene	MS	1719518-01	ND	24.240	25.000	ug/L		97.0		70 - 130	
	MSD	1719518-01	ND	23.840	25.000	ug/L	1.7	95.4	20	70 - 130	
1,1-Dichloroethane	MS	1719518-01	ND	26.400	25.000	ug/L		106		70 - 130	
	MSD	1719518-01	ND	25.930	25.000	ug/L	1.8	104	20	70 - 130	
1,1-Dichloroethene	MS	1719518-01	ND	28.520	25.000	ug/L		114		70 - 130	
	MSD	1719518-01	ND	28.300	25.000	ug/L	0.8	113	20	70 - 130	
Trichloroethene	MS	1719518-01	ND	27.090	25.000	ug/L		108		70 - 130	
	MSD	1719518-01	ND	26.320	25.000	ug/L	2.9	105	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1719518-01	ND	9.8300	10.000	ug/L		98.3		75 - 125	
	MSD	1719518-01	ND	9.9600	10.000	ug/L	1.3	99.6		75 - 125	
Toluene-d8 (Surrogate)	MS	1719518-01	ND	9.9400	10.000	ug/L		99.4		80 - 120	
	MSD	1719518-01	ND	9.8600	10.000	ug/L	0.8	98.6		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1719518-01	ND	10.140	10.000	ug/L		101		80 - 120	
	MSD	1719518-01	ND	9.7200	10.000	ug/L	4.2	97.2		80 - 120	

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 09/20/2017 9:31
Project: Misc Samples
Project Number: IA756 Four Seasons
Project Manager: Matt Paulus

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A01	Detection and quantitation limits are raised due to sample dilution.

Date of Report: 09/07/2017

Matt Paulus

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Client Project:	I4756
BCL Project:	Air Samples
BCL Work Order:	1724557
Invoice ID:	B278429

Enclosed are the results of analyses for samples received by the laboratory on 9/1/2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Christina Herndon
Client Service Rep

Authorized Signature

Table of Contents

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 09/07/2017 13:09
Project: Air Samples
Project Number: I4756
Project Manager: Matt Paulus

Laboratory / Client Sample Cross Reference

Laboratory ID	Client Sample Information			
1724557-01	**COC Number:**	---	**Receive Date:**	09/01/2017 09:00
	Project Number:	IA756	**Sampling Date:**	08/31/2017 13:35
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	IA-10-1; Can #C8345; Mani #05985	**Lab Matrix:**	Air
	Sampled By:	RRM of RRMS	**Sample Type:**	Vapor or Air
1724557-02	**COC Number:**	---	**Receive Date:**	09/01/2017 09:00
	Project Number:	IA756	**Sampling Date:**	08/31/2017 13:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	IA-10-2; Can #0742; Mani #06027	**Lab Matrix:**	Air
	Sampled By:	RRM of RRMS	**Sample Type:**	Vapor or Air
1724557-03	**COC Number:**	---	**Receive Date:**	09/01/2017 09:00
	Project Number:	IA756	**Sampling Date:**	08/31/2017 14:34
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	OA-8-30-17; Can #0791; Mani #05980	**Lab Matrix:**	Air
	Sampled By:	RRM of RRMS	**Sample Type:**	Vapor or Air

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 09/07/2017 13:09
Project: Air Samples
Project Number: I4756
Project Manager: Matt Paulus

Volatile Organic Compounds by GC/MS (EPA Method TO-15 Modified SIM)

BCL Sample ID: 1724557-01 | **Client Sample Name:** IA756, IA-10-1; Can #C8345; Mani #05985, 8/31/2017 1:35:00PM, RRM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,1-Difluoroethane	ND	ug/m3	0.36	0.18	EPA-TO-15-SIM	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	0.054	0.0086	EPA-TO-15-SIM	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	0.054	0.017	EPA-TO-15-SIM	ND	A01	1
Tetrachloroethene	**680**	**ug/m3**	**46**	**4.6**	**EPA-TO-15-SIM**	ND	**A01**	2
Trichloroethene	ND	ug/m3	0.15	0.015	EPA-TO-15-SIM	ND	A01	1
Vinyl chloride	ND	ug/m3	0.035	0.017	EPA-TO-15-SIM	ND	A01	1
4-Bromofluorobenzene (Surrogate)	64.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	93.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	09/05/17	09/06/17 09:00	MJB	MS-A2	1.350	B[I0132
2	EPA-TO-15-SIM	09/05/17	09/06/17 14:41	MJB	MS-A2	135	B[I0132

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 09/07/2017 13:09
Project: Air Samples
Project Number: I4756
Project Manager: Matt Paulus

Volatile Organic Compounds by GC/MS (EPA Method TO-15 Modified SIM)

BCL Sample ID: 1724557-02 | **Client Sample Name:** IA756, IA-10-2; Can #0742; Mani #06027, 8/31/2017 1:40:00PM, RRM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,1-Difluoroethane	ND	ug/m3	0.36	0.18	EPA-TO-15-SIM	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	0.054	0.0086	EPA-TO-15-SIM	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	0.054	0.017	EPA-TO-15-SIM	ND	A01	1
Tetrachloroethene	**450**	**ug/m3**	**34**	**3.4**	**EPA-TO-15-SIM**	ND	**A01**	2
Trichloroethene	ND	ug/m3	0.15	0.015	EPA-TO-15-SIM	ND	A01	1
Vinyl chloride	ND	ug/m3	0.035	0.017	EPA-TO-15-SIM	ND	A01	1
4-Bromofluorobenzene (Surrogate)	88.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	89.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	09/05/17	09/06/17 09:38	MJB	MS-A2	1.350	B[I0132
2	EPA-TO-15-SIM	09/05/17	09/06/17 15:18	MJB	MS-A2	100	B[I0132

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 09/07/2017 13:09
Project: Air Samples
Project Number: I4756
Project Manager: Matt Paulus

Volatile Organic Compounds by GC/MS (EPA Method TO-15 Modified SIM)

BCL Sample ID: 1724557-03 | **Client Sample Name:** IA756, OA-8-30-17; Can #0791; Mani #05980, 8/31/2017 2:34:00PM, RRM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,1-Difluoroethane	ND	ug/m3	0.38	0.19	EPA-TO-15-SIM	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	0.056	0.0089	EPA-TO-15-SIM	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	0.056	0.017	EPA-TO-15-SIM	ND	A01	1
Tetrachloroethene	**0.38**	**ug/m3**	**0.47**	**0.047**	**EPA-TO-15-SIM**	ND	**J,A01**	1
Trichloroethene	ND	ug/m3	0.15	0.015	EPA-TO-15-SIM	ND	A01	1
Vinyl chloride	ND	ug/m3	0.036	0.018	EPA-TO-15-SIM	ND	A01	1
4-Bromofluorobenzene (Surrogate)	144	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	09/05/17	09/06/17 10:16	MJB	MS-A2	1.400	B[I0132

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 09/07/2017 13:09
Project: Air Samples
Project Number: I4756
Project Manager: Matt Paulus

Volatile Organic Compounds by GC/MS (EPA Method TO-15 Modified SIM)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[I0132						
1,1-Difluoroethane	B[I0132-BLK1	ND	ug/m3	0.27	0.14	
cis-1,2-Dichloroethene	B[I0132-BLK1	ND	ug/m3	0.040	0.0063	
trans-1,2-Dichloroethene	B[I0132-BLK1	ND	ug/m3	0.040	0.012	
Tetrachloroethene	B[I0132-BLK1	ND	ug/m3	0.34	0.034	
Trichloroethene	B[I0132-BLK1	ND	ug/m3	0.11	0.011	
Vinyl chloride	B[I0132-BLK1	ND	ug/m3	0.026	0.013	
4-Bromofluorobenzene (Surrogate)	**B[I0132-BLK1**	**76.0**	%	**50 - 150 (LCL - UCL)**		

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 09/07/2017 13:09
Project: Air Samples
Project Number: I4756
Project Manager: Matt Paulus

Volatile Organic Compounds by GC/MS (EPA Method TO-15 Modified SIM)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B[I0132										
Tetrachloroethene	B[I0132-BS1	LCS	0.74608	0.67825	ug/m3	110		70 - 130		
	B[I0132-BSD1	LCSD	0.67825	0.67825	ug/m3	100	9.5	70 - 130	30	
Trichloroethene	B[I0132-BS1	LCS	0.53737	0.53737	ug/m3	100		70 - 130		
	B[I0132-BSD1	LCSD	0.53737	0.53737	ug/m3	100	0	70 - 130	30	
4-Bromofluorobenzene (Surrogate)	B[I0132-BS1	LCS	2.65	2.39	ug/m3	111		50 - 150		
	B[I0132-BSD1	LCSD	2.93	2.39	ug/m3	123	10.3	50 - 150		

RRM, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, CA 95062

Reported: 09/07/2017 13:09
Project: Air Samples
Project Number: I4756
Project Manager: Matt Paulus

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A01	Detection and quantitation limits are raised due to sample dilution.

ENTHALPY

ANALYTICAL

Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 292045
ANALYTICAL REPORT

Remediation Risk Management,Inc.	Project : IA756
2560 Soquel Ave	Location : Former Four Season Cleaners
Santa Cruz, CA 95062	Level : II

Sample ID	Lab ID
SSV-1	292045-001
SSV-2	292045-002

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

Signature: _____ Date: 09/01/2017

Mike Dahlquist
Project Manager
mike.dahlquist@enthalpy.com
(510) 204-2225 Ext 13101

CA ELAP# 2896, NELAP# 4044-001

ENTHALPY ANALYTICAL

CASE NARRATIVE

Laboratory number:	**292045**
Client:	**Remediation Risk Management,Inc.**
Project:	**IA756**
Location:	**Former Four Season Cleaners**
Request Date:	**08/31/17**
Samples Received:	**08/31/17**

This data package contains sample and QC results for two air samples, requested for the above referenced project on 08/31/17. The samples were received intact.

Volatile Organics in Air by MS (EPA TO-15):
No analytical problems were encountered.

Volatile Organics in Air GC (ASTM D1946-90):
No analytical problems were encountered.

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

AIR TESTING CHAIN OF CUSTODY
& PURCHASE ORDER

Chain of Custody # : _____

C&T LOGIN # 292045

Project No: IA756
Project Name: Former Four Season Cleaners
EDD Format: _____ **Rpt Level:** II III IV
Turnaround Time: ☒ RUSH 24hr ☐ Standard

Sampler: EF
Report To: ~~Apex~~ EF Matt Paulus
Company : RRM
Telephone: 831 475 8141
Email: labdata@rrmsc.com

Lab No.	Sample ID.	Sampling Information					TESTING REQUESTED				
		Date Collected	Time Collected	Canister ID (Bar Code #)	Flow Controller ID	Sample Volume (Gauge Reading)	TO-15 PCE TCE c-1,2-DCE t-1,2-DCE Vinyl Chloride	TO-3: C6-C12 GRO	TO-3M: C1-C6 Hydrocarbons	D1946: (Please Circle Targets) H_2 (He) N_2 O_2 CO CO_2 CH_4	
1	SSV-1	8/31/17	1336	00608	A00312	12	X			X	
2	SSV-2	" "	1424	00257	A00309	8.5	X			X	

Notes:

RELIQUISHED BY:	RECEIVED BY:
8/31/17 1830 DATE/TIME	8/31 @ 1530 DATE/TIME
8/31 @ 1606 DATE/TIME	8/31/17 1615 DATE/TIME
DATE/TIME	DATE/TIME

COOLER RECEIPT CHECKLIST

ENTHALPY ANALYTICAL Berkeley

Login # 292045 Date Received 8/31/17 Number of coolers 0
Client REM Project JA756

Date Opened 8/31 By (print) EWA (sign) [signature]
Date Logged in [signature] By (print) [signature] (sign) [signature]
Date Labelled [signature] By (print) [signature] (sign) [signature]

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

   ☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☐ None
   ☐ Cloth material ☒ Cardboard ☐ Styrofoam ☐ Paper towels
7. Temperature documentation: * Notify PM if temperature exceeds 6°C

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

   ☐ Temperature blank(s) included? ☐ Thermometer# ☐ IR Gun#

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

COMMENTS

Rev 14, 8/01/17

ENTHALPY ANALYTICAL

Detections Summary for 292045

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

Client : Remediation Risk Management,Inc.
Project : IA756
Location : Former Four Season Cleaners

Client Sample ID : SSV-1 Laboratory Sample ID : 292045-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichloroethene	93		16	ppbv	As Recd	31.32	EPA TO-15	METHOD
Tetrachloroethene	4,400		26	ppbv	As Recd	52.20	EPA TO-15	METHOD
Helium	20,000		2,600	ppmv	As Recd	2.610	ASTM D1946-90	METHOD
Oxygen	160,000		2,600	ppmv	As Recd	2.610	ASTM D1946-90	METHOD

Client Sample ID : SSV-2 Laboratory Sample ID : 292045-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichloroethene	150		45	ppbv	As Recd	90.40	EPA TO-15	METHOD
Tetrachloroethene	7,300		45	ppbv	As Recd	90.40	EPA TO-15	METHOD
Helium	27,000		2,300	ppmv	As Recd	2.260	ASTM D1946-90	METHOD
Oxygen	170,000		2,300	ppmv	As Recd	2.260	ASTM D1946-90	METHOD

ENTHALPY ANALYTICAL

Volatile Organics in Air

Lab #:	292045	Location:	Former Four Season Cleaners
Client:	Remediation Risk Management,Inc.	Prep:	METHOD
Project#:	IA756	Analysis:	EPA TO-15
Matrix:	Air	Sampled:	08/31/17
Units (V):	ppbv	Received:	08/31/17
Units (M):	ug/m3		

Field ID: SSV-1 Lab ID: 292045-001
Type: SAMPLE

Analyte	Result (V)	RL	Result (M)	RL	Diln Fac	Batch#	Analyzed
Vinyl Chloride	ND	16	ND	40	31.32	251175	08/31/17
trans-1,2-Dichloroethene	ND	16	ND	62	31.32	251175	08/31/17
cis-1,2-Dichloroethene	ND	16	ND	62	31.32	251175	08/31/17
Trichloroethene	93	16	500	84	31.32	251175	08/31/17
Tetrachloroethene	4,400	26	30,000	180	52.20	251213	09/01/17

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Bromofluorobenzene	96	80-120	31.32	251175	08/31/17

Field ID: SSV-2 Diln Fac: 90.40
Type: SAMPLE Batch#: 251175
Lab ID: 292045-002 Analyzed: 08/31/17

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	45	ND	120
trans-1,2-Dichloroethene	ND	45	ND	180
cis-1,2-Dichloroethene	ND	45	ND	180
Trichloroethene	150	45	830	240
Tetrachloroethene	7,300	45	49,000	310

Surrogate	%REC	Limits
Bromofluorobenzene	98	80-120

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

ENTHALPY ANALYTICAL

Volatile Organics in Air

Lab #:	292045	Location:	Former Four Season Cleaners
Client:	Remediation Risk Management,Inc.	Prep:	METHOD
Project#:	IA756	Analysis:	EPA TO-15
Matrix:	Air	Sampled:	08/31/17
Units (V):	ppbv	Received:	08/31/17
Units (M):	ug/m3		

Type: BLANK
Lab ID: QC899080
Diln Fac: 1.000

Batch#: 251175
Analyzed: 08/31/17

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	0.50	ND	1.3
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
Trichloroethene	ND	0.50	ND	2.7
Tetrachloroethene	ND	0.50	ND	3.4

Surrogate	%REC	Limits
Bromofluorobenzene	102	70-130

Type: BLANK
Lab ID: QC899233
Diln Fac: 1.000

Batch#: 251213
Analyzed: 09/01/17

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	0.50	ND	1.3
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
Trichloroethene	ND	0.50	ND	2.7
Tetrachloroethene	ND	0.50	ND	3.4

Surrogate	%REC	Limits
Bromofluorobenzene	100	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

ENTHALPY ANALYTICAL

Batch QC Report

Volatile Organics in Air

Lab #:	292045	Location:	Former Four Season Cleaners
Client:	Remediation Risk Management,Inc.	Prep:	METHOD
Project#:	IA756	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	251175
Units (V):	ppbv	Analyzed:	08/31/17
Diln Fac:	1.000		

Type: BS Lab ID: QC899078

Analyte	Spiked	Result (V)	%REC	Limits
Vinyl Chloride	5.000	4.605	92	70-130
trans-1,2-Dichloroethene	5.000	4.836	97	70-130
cis-1,2-Dichloroethene	5.000	4.682	94	70-130
Trichloroethene	5.000	4.915	98	70-130
Tetrachloroethene	5.000	5.019	100	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	96	70-130

Type: BSD Lab ID: QC899079

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Vinyl Chloride	5.000	4.438	89	70-130	4	25
trans-1,2-Dichloroethene	5.000	4.813	96	70-130	0	25
cis-1,2-Dichloroethene	5.000	4.587	92	70-130	2	25
Trichloroethene	5.000	4.948	99	70-130	1	25
Tetrachloroethene	5.000	5.052	101	70-130	1	25

Surrogate	%REC	Limits
Bromofluorobenzene	97	70-130

RPD= Relative Percent Difference
Result V= Result in volume units

ENTHALPY ANALYTICAL

Batch QC Report

Volatile Organics in Air

Lab #:	292045	Location:	Former Four Season Cleaners
Client:	Remediation Risk Management,Inc.	Prep:	METHOD
Project#:	IA756	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	251213
Units (V):	ppbv	Analyzed:	09/01/17
Diln Fac:	1.000		

Type: BS Lab ID: QC899231

Analyte	Spiked	Result (V)	%REC	Limits
Vinyl Chloride	5.000	4.468	89	70-130
trans-1,2-Dichloroethene	5.000	4.738	95	70-130
cis-1,2-Dichloroethene	5.000	4.622	92	70-130
Trichloroethene	5.000	5.035	101	70-130
Tetrachloroethene	5.000	5.104	102	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	100	70-130

Type: BSD Lab ID: QC899232

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Vinyl Chloride	5.000	4.465	89	70-130	0	25
trans-1,2-Dichloroethene	5.000	4.852	97	70-130	2	25
cis-1,2-Dichloroethene	5.000	4.621	92	70-130	0	25
Trichloroethene	5.000	4.941	99	70-130	2	25
Tetrachloroethene	5.000	5.132	103	70-130	1	25

Surrogate	%REC	Limits
Bromofluorobenzene	98	70-130

RPD= Relative Percent Difference
Result V= Result in volume units

ENTHALPY ANALYTICAL

Fixed Gas Analysis

Lab #:	292045	Location:	Former Four Season Cleaners
Client:	Remediation Risk Management,Inc.	Prep:	METHOD
Project#:	IA756	Analysis:	ASTM D1946-90
Matrix:	Air	Sampled:	08/31/17
Units:	ppmv	Received:	08/31/17
Units (Mol %):	MOL %	Analyzed:	08/31/17
Batch#:	251207		

Field ID: SSV-1 Lab ID: 292045-001
Type: SAMPLE Diln Fac: 2.610

Analyte	Result	RL	Result (Mol %)	RL
Helium	20,000	2,600	2.0	0.26
Carbon Dioxide	ND	2,600	ND	0.26
Oxygen	160,000	2,600	16	0.26
Methane	ND	2,600	ND	0.26

Field ID: SSV-2 Lab ID: 292045-002
Type: SAMPLE Diln Fac: 2.260

Analyte	Result	RL	Result (Mol %)	RL
Helium	27,000	2,300	2.7	0.23
Carbon Dioxide	ND	2,300	ND	0.23
Oxygen	170,000	2,300	17	0.23
Methane	ND	2,300	ND	0.23

Type: BLANK Diln Fac: 1.000
Lab ID: QC899209

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	1,000	ND	0.10
Carbon Dioxide	ND	1,000	ND	0.10
Oxygen	ND	1,000	ND	0.10
Methane	ND	1,000	ND	0.10

ND= Not Detected
RL= Reporting Limit
Result Mol %= Result in Mole Percent

ENTHALPY ANALYTICAL

Batch QC Report

Fixed Gas Analysis

Lab #:	292045	Location:	Former Four Season Cleaners
Client:	Remediation Risk Management,Inc.	Prep:	METHOD
Project#:	IA756	Analysis:	ASTM D1946-90
Matrix:	Air	Batch#:	251207
Units:	ppmv	Analyzed:	08/31/17
Diln Fac:	1.000		

Type: BS Lab ID: QC899206

Analyte	Spiked	Result	%REC	Limits
Helium	100,000	72,490	72	70-130
Carbon Dioxide		NA		
Oxygen		NA		
Methane		NA		

Type: BSD Lab ID: QC899207

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Helium	100,000	72,240	72	70-130	0	30
Carbon Dioxide		NA				
Oxygen		NA				
Methane		NA				

NA= Not Analyzed
RPD= Relative Percent Difference

ENTHALPY ANALYTICAL

Batch QC Report

Fixed Gas Analysis

Lab #:	292045	Location:	Former Four Season Cleaners
Client:	Remediation Risk Management,Inc.	Prep:	METHOD
Project#:	IA756	Analysis:	ASTM D1946-90
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC899208	Batch#:	251207
Matrix:	Air	Analyzed:	08/31/17
Units:	ppmv		

Analyte	Spiked	Result	%REC	Limits
Helium		NA		
Carbon Dioxide	2,000	1,810	91	70-130
Oxygen	2,000	1,725	86	70-130
Methane	2,000	1,825	91	70-130

NA= Not Analyzed

ENTHALPY ANALYTICAL

Batch QC Report

Fixed Gas Analysis

Lab #:	292045	Location:	Former Four Season Cleaners
Client:	Remediation Risk Management,Inc.	Prep:	METHOD
Project#:	IA756	Analysis:	ASTM D1946-90
Field ID:	SSV-1	Units (Mol %):	MOL %
Type:	SDUP	Diln Fac:	2.610
MSS Lab ID:	292045-001	Batch#:	251207
Lab ID:	QC899210	Sampled:	08/31/17
Matrix:	Air	Received:	08/31/17
Units:	ppmv	Analyzed:	08/31/17

Analyte	MSS Result	Result	RL	Result (Mol %)	RL	RPD	Lim
Helium	19,870	19,590	2,610	1.959	0.2610	1	30
Carbon Dioxide	<2,610	ND	2,610	ND	0.2610	NC	30
Oxygen	162,400	162,400	2,610	16.24	0.2610	0	30
Methane	<2,610	ND	2,610	ND	0.2610	NC	30

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit
RPD= Relative Percent Difference
Result Mol %= Result in Mole Percent

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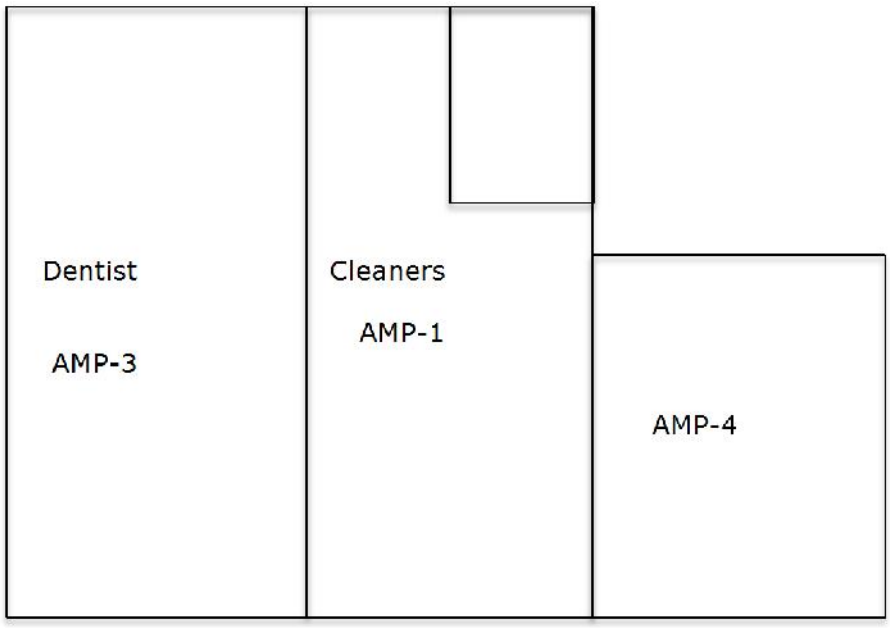
AIR MONITORING LOG

Air Monitoring Log
Former Four Season Cleaners
13778 Doolittle Drive
San Leandro, California

Location	Date	Time	PID (ppm)	PCE (ppm)	TCE (ppm)	CO
AMP-1	7/12/2017	7:00	0	0.0	0.0	pass
AMP-2			0	0.0	0.0	pass
AMP-3	closed		na	na	na	na
AMP-4	closed		na	na	na	na
AMP-1		11:00	0	0.0	0.0	pass
AMP-2			0	0.0	0.0	pass
AMP-3			0	0.0	0.0	pass
AMP-4			0	0.0	0.0	pass
AMP-1		14:00	0	0.0	0.0	pass
AMP-2			0	0.0	0.0	pass
AMP-3			0	0.0	0.0	pass
AMP-4			0	0.0	0.0	pass
AMP-1	7/13/2017	7:00	0	0.0	0.0	pass
AMP-2			0	0.0	0.0	pass
AMP-3	closed		na	na	na	na
AMP-4	closed		na	na	na	na
AMP-1		8:30	0	0.5	0.0	pass
		10:30	0	0.8	0.0	pass
		11:30	0	0.5	0.0	pass
		14:00	0	0.0	0.0	pass
AMP-1		13:00	0	0.0	0.0	pass
AMP-2			0	0.0	0.0	pass
AMP-3	closed		na	na	na	na
AMP-4			0	0.0	0.0	pass
AMP-1	7/14/2017	7:00	0	0.5	0.0	pass
AMP-2			0	0.0	0.0	pass
AMP-3	closed		na	na	na	na
AMP-4	closed		na	na	na	na
AMP-1		11:00	3.6	1.5	0.2	pass
AMP-2			0	0.0	0.0	pass
AMP-3	closed		na	na	na	na
AMP-4			0	0.0	0.0	pass
AMP-1		11:30	0	0.0	0.0	pass
		12:00	0	0.0	0.0	pass
AMP-1		13:00	0	0.0	0.0	pass
AMP-2			0	0.0	0.0	pass
AMP-3	closed		na	na	na	na
AMP-4			0	0.0	0.0	pass

Air Monitoring Log
Former Four Season Cleaners
13778 Doolittle Drive
San Leandro, California

Location	Date	Time	PID (ppm)	PCE (ppm)	TCE (ppm)	CO
AMP-1	7/18/2017	5:30	0	0.5	0.0	pass
AMP-1		6:30	7.2	5.0	0.1	pass
AMP-1		7:30	4.5	2.0	0.0	pass
AMP-1		8:30	0	0.0	0.0	pass
AMP-1		11:00	0	0.0	o	pass
AMP-2			0	0.0	0.0	pass
AMP-3	closed		na	na	na	na
AMP-4			0	0.0	0.0	pass
AMP-1		11:30	0	0.0	0.0	pass
		12:00	0	0.0	0.0	pass
AMP-1		13:00	0.0	0.0	0.0	pass
AMP-2			0	0.0	0.0	pass
AMP-3	closed		na	na	na	na
AMP-4			0	0.0	0.0	pass
AMP-1	7/19/2017	7:00	0	0.0	0.0	pass
AMP-1	7/20/2017	7:00	0	0.0	0.0	pass
AMP-1	7/21/2017	7:00	0	0.0	0.0	pass



AMP-2

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SOIL VAPOR EXTRACTION REPORT
WELL TEST, INC.

WellTest, Inc.

August 7, 2017

Mr. Matt Paulus mpaulus@rrmsc.com
Remediation Risk Management, Inc.
2560 Soquel Avenue, Suite 202
Santa Cruz, California 95062-1429

Subject: **Soil Vapor Extraction and Treatment Test Event Report (Report #5343-1)**
Four Seasons Cleaners, 13778 Doolittle Avenue, San Leandro, California 94577-5532
Alameda County DEH Case: #RO0003155

Dear Mr. Paulus:

On behalf of Remediation Risk Management, Inc. (RRM), WellTest, Inc. (WTI) prepared this report to document the results of a soil vapor extraction (SVE) and treatment test event for the above-referenced case. The report documents the operation of a mobile high-vacuum extraction (HVE) system configured to perform SVE on wells SVE-1 and SVE-2. The HVE system readings and tetrachloroethylene (PCE) recovery data for the event are presented within Tables 1A, 1B, 2A and 2B. Graphs of PCE mass removal vs. time are presented as Charts 1A, 1B, 2A, and 2B. A graph of the PCE mass removal rate vs. time is presented as Chart 3. Copies of Laboratory reports are included as Attachment A. The HVE system specifications and permit information are presented as Attachment B.

HVE System Recovery Data

Test Equipment:	WTI Mobile HVE System #3
BAAQMD Plant Number:	19967; S-3; A-3 (Expires 12/1/2017)
Mobilization Date:	7/18/17 4:30 PM
Removal Date:	7/29/17 10:30 AM
Test Equipment Location:	Adjacent to Former Dry Cleaner Suite (Figure 1) 13778 Doolittle Avenue San Leandro, California 94577-5532
Duration On-Site (Days):	10.75
Startup Date:	7/27/17 7:36 AM
Completion Date:	7/28/17 12:37 PM
Operation Duration (Days):	1.21
Days of Non-Operation (Days)	9.54
Nearest K-12 School from Stack	>1,000 Feet

PCE Mass Recovered (lbs.)	3.005
PCE Mass Recovered (gal.)	0.223

Based on Ion Science, Ltd. - PhoCheck 5000EX Field Analyzer Readings
(Calibrated to Isobutlyene; with a 0.8 Reponse Factor)

PCE Mass Recovered (lbs.)	0.505
PCE Mass Recovered (gal.)	0.0375

Based on Laboratory-Analyzed Air Sample Results

Ave. Water Production Rate (gpm)	0
Total Water Produced (Gal.)	0
Total Water Disposed (Gal.)	0

HVE System Emissions Data

Toxic Air Contaminant (TOC) Emissions Data

Emission Rate (lb/hr) = Flow Rate (scfm) x Conc. (ppmv) x 1E-6 x MW (lb/lb-mol) / 385.3 (scf/lb-mol)

Pollutant	Mol. Wt.	Conc. (ppmv)	Avg. Flow Rate (scfm)	Extraction Event TAC Emission Rate (lbs/hr)	Event Cumulative TAC Emissions (lbs/Op. Dur. Days*)	BAAQMD Acute Toxic Trigger Level (lbs/hr)
Benzene	78.11	0.005	170	1.72E-07	2.09E-07	2.90E+00
Toluene	92.14	0.005	170	2.03E-07	2.46E-07	8.20E+01
Ethyl Benzene	106.17	0.005	170	2.34E-07	2.83E-07	NA
Xylenes (mixed isomers)	106.16	0.010	170	4.68E-07	5.67E-07	4.90E+01
Tetrachloroethene	165.83	0.005	170	3.66E-07	4.43E-07	NA
Trichloroethylene	131.4	0.005	170	2.90E-07	3.51E-07	NA

Pollutant Concentration Data from BC Labs Report #1720730 *Operation Duration (Days) = 1.21

Precursor Organic Compound (POC) Emissions and Abatement Data

Emission Rate (lb/hr) = Flow Rate (scfm) x Conc. (ppmv) x 1E-6 x MW (lb/lb-mol) / 385.3 (scf/lb-mol)

Total POC Emissions (pounds):	0.0000001	POC Emission Rate (lbs/hr) x Operation Duration (Days) x 24
Total Throughput of Vapor (scf):	295,970	Flow Rate (scfm) x Operation Duration (Days) x 60 x 24
Startup Date	7/27/17 7:36 AM	
Completion Date:	7/28/17 12:37 PM	
Operation Duration (Days):	1.21	

Emission Rate (lb/hr) = Flow Rate (scfm) x Conc. (ppmv) x 1E-6 x MW (lb/lb-mol) / 385.3 (scf/lb-mol)

Extraction Well	Exhaust Sample Date	Stack Flow Rate (scfm)	POC Inlet to Oxidizer (ppmv as C6)	POC Outlet Oxidizer (ppmv as C6)	Time Elapsed (hours)	POC Emission Rate (lbs/hr)	POC Abatement Effeciency %
SVE-1	7/27/17 7:50 AM	170	0.01	0.01	0.2	4.41E-09	Not Applicable ND

Hexane (C6) Concentration Data from BC Labs Report #1720730

Comments and Conclusions

WTI offers the following comments and conclusions:

- **Effectiveness of SVE at the Site.** Recovery of PCE by SVE from engineered backfill materials placed within the recent excavation at the site is a feasible remediation option. PCE was recovered from sediments tapped by extraction points SVE-1 and SVE-2 during the test. The majority of the SVE test (95%) was conducted on extraction point SVE-1. Calculations based on 21 field-analyzer readings made with an Ion-Science 5000ES PID meter (calibrated to Isobutlyene with a PCE response factor of 0.8) indicate ~3 lbs. of PCE were recovered from SVE-1 during the test (Table 1A). Calculations using the results from two laboratory-analyzed samples indicate ~0.5 lb. of PCE was recovered from SVE-1 during the test (Table 1B).

- **PCE Recovery Rate vs. Time (SVE-1).** The recovery rate of PCE from extraction point SVE-1 declined significantly during the test. PCE was recovered at a rate of 17.2 lbs./day from SVE-1 at the start of the test, and at a rate of 0.88 lbs./day at the end of the test – based on the field analyzer data. A graph showing the PCE recovery rate vs. time from extraction point SVE-1 is presented as Chart 3.

- **Abatement Device Effectiveness.** Extracted TOC and POC vapors were successfully treated by granular activated carbon (GAC) for the period between July 27, 2017 and July 28, 2017. The POC and TOC emission rates were compliant with the BAAQMD Permit to Operate requirements.

- **Radius of Influence (ROI).** A radius of influence (extending from each extraction point) could not be determined during the SVE test. Negative pressure deflections were not detected (<0.01-inches of H_2O) within observation point SVE-2 while 0.5-inches Hg vacuum was applied to extraction point SVE-1, and were additionally not detected within observation point SVE-1 while 0.5-inches Hg vacuum was applied to extraction point SVE-2.

To the best of my knowledge all statements and information provided in this report are true and correct.

Sincerely
WELLTEST, INC.

William R. Dugan, P.G.
Project Manger

Tables, Figures, Charts, and Attachments

Figure 1	Map Showing Recovery Wells the Layout of the HVE System
Table 1A	HVE System Parameters and Vapor-Phase PCE Recovery Data -- SVE-1 Based on the Field Analyzer Readings (7-27-17 through 7/28/17)
Table 1B	HVE System Parameters and Vapor-Phase PCE Recovery Data -- SVE-1 Based on Laboratory Results (7-27-17 through 7-28-17)
Table 2A	HVE System Parameters and Vapor-Phase PCE Recovery Data -- SVE-2 Based on the Field Analyzer Readings (7/28/17)
Table 2B	HVE System Parameters and Vapor-Phase PCE Recovery Data -- SVE-2 Based on Laboratory Results (7-28-17)
Chart 1A	PCE Recovery Mass (lbs.) vs. Time (Days) -- SVE-1 Based on the Field Analyzer Readings (7-27-17 through 7/28/17)
Chart 1B	PCE Recovery Mass (lbs.) vs. Time (Days) -- SVE-1 Based on Laboratory Results (7-27-17 through 7-28-17)
Chart 2A	PCE Recovery Mass (lbs.) vs. Time (Days) -- SVE-2 Based on the Field Analyzer Readings (7/28/17)
Chart 2B	PCE Recovery Mass (lbs.) vs. Time (Days) -- SVE-2 Based on Laboratory Results (7-28-17)
Chart 3	PCE Recovery Rate (lbs./Day) vs. Time (Days) -- SVE-1 Based on the Field Analyzer Readings (7-27-17 through 7/28/17)
Attachment A	Chain of Custody Records and Analytical Reports
Attachment B	HVE System Specifications and Permit Information

FIGURES

TABLES

CHARTS

FIGURES

LEGEND

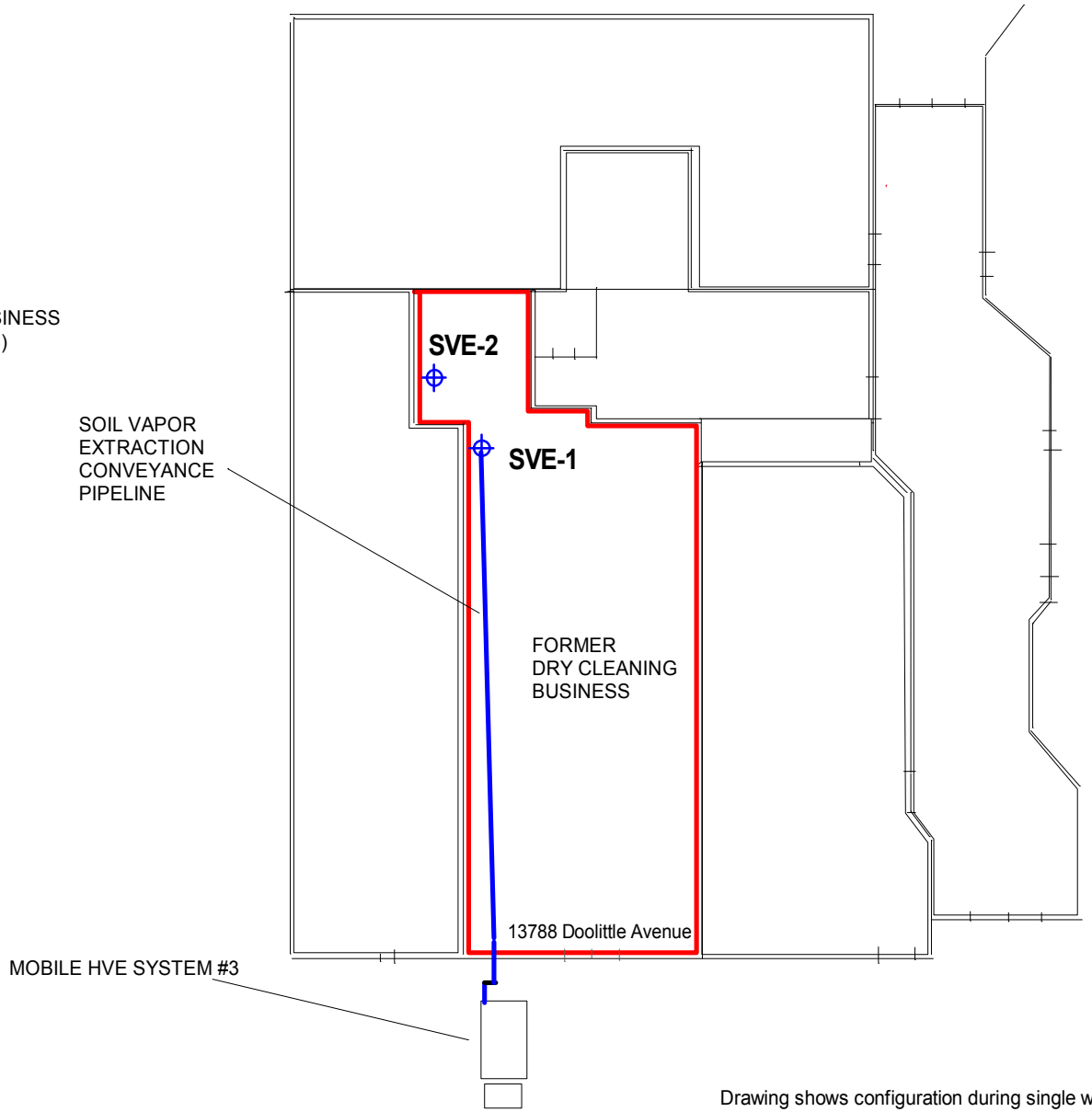
- INDOOR AIR SAMPLE
- (24-HOUR SUMMA SAMPLE)
- (8-HOUR SUMMA AMPLE)

R REFRIGERATOR

B BATHROOM

S STORAGE

PERIMETER OF THE
FORMER DRY CLEANER BUSINESS
(FOUR SEASONS CLEANERS)



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APPROXIMATE SCALE IN FEET

ALL LOCATIONS ARE APPROXIMATE.
BASEMAP FROM MEASUREMENTS
TAKING BY WELLTEST (FEBRUARY 2016)

Drawing shows configuration during single well SVE test on well SVE-1

WellTest, Inc.
P.O. Box 8548
San Jose, CA 95155
Phone (408) 287-2175

GENERALIZED SITE MAP SHOWING WELLS SVE-1 AND SVE-2 AND THE MOBILE VACUUME EXTRACTION SYSTEM

FOUR SEASONS CLEANERS
13778 DOOLITTLE AVENUE
SAN LEANDRO, CALIFORNIA

FIGURE

1

File: 5343/Drafting/Figure 1

TABLES

Client: RRM, Inc.

Table 1A
HVE System Parameters and Vapor-Phase Tetrachloroethene (PCE) Recovery Data
(Based on Field Analyzer Data)
SVE Test -- Well SVE-2
13778 Doolittle Avenue, San Leandro, California 94577-5532

WTI Job: #5343

Date / Time	Total Days	Extraction Well(s)	System Parameters		Vapor-Phase Tetrachloroethene Recovery Data								
			Vacuum (Inches Hg)	Flow (cfm)	Time Between Readings (Days)	PID Meter Influent (ppmv)	Corrected PID Meter Influent (ppmv)	Mass Removal Rate (lbs/day)	Mass Removal Rate (gallons/day)	Mass Removed (lbs)	Mass Removed (gallons)	Cumulative Mass Removed (lbs)	Cumulative Mass Removed (gallons)
7/27/17 7:36	0.000	SVE-1	0.5	125	0.0000	278.0	222.40	17.20	1.2768	0.0000	0.0000	0.0000	0.0000
7/27/17 7:46	0.007	SVE-1	0.5	125	0.0069	227.0	181.60	15.62	1.1597	0.1085	0.0081	0.1085	0.0081
7/27/17 7:50	0.010	SVE-1	0.5	125	0.0028	150.0	120.00	11.66	0.8657	0.0324	0.0024	0.1409	0.0105
7/27/17 8:01	0.017	SVE-1	0.5	125	0.0076	131.0	104.80	8.69	0.6453	0.0664	0.0049	0.2073	0.0154
7/27/17 8:14	0.026	SVE-1	0.5	125	0.0090	127.0	101.60	7.98	0.5925	0.0720	0.0053	0.2793	0.0207
7/27/17 8:30	0.037	SVE-1	0.5	125	0.0111	81.0	64.80	6.43	0.4776	0.0715	0.0053	0.3508	0.0260
7/27/17 8:41	0.045	SVE-1	0.5	125	0.0076	91.0	72.80	5.32	0.3950	0.0406	0.0030	0.3914	0.0291
7/27/17 8:42	0.046	SVE-1	0.5	170	0.0007	121.0	96.80	7.90	0.5869	0.0055	0.0004	0.3969	0.0295
7/27/17 8:48	0.050	SVE-1	0.5	170	0.0042	86.0	68.80	8.71	0.6465	0.0363	0.0027	0.4332	0.0322
7/27/17 9:05	0.062	SVE-1	0.5	170	0.0118	73.0	58.40	6.69	0.4966	0.0790	0.0059	0.5122	0.0380
7/27/17 9:18	0.071	SVE-1	0.5	170	0.0090	68.8	55.04	5.97	0.4428	0.0539	0.0040	0.5660	0.0420
7/27/17 9:30	0.079	SVE-1	0.5	170	0.0083	63.0	50.40	5.54	0.4116	0.0462	0.0034	0.6122	0.0455
7/27/17 9:51	0.094	SVE-1	0.5	170	0.0146	56.0	44.80	5.01	0.3716	0.0730	0.0054	0.6852	0.0509
7/27/17 10:13	0.109	SVE-1	0.5	170	0.0153	46.0	36.80	4.29	0.3186	0.0656	0.0049	0.7508	0.0557
7/27/17 11:08	0.147	SVE-1	0.5	170	0.0382	43.0	34.40	3.74	0.2780	0.1430	0.0106	0.8938	0.0664
7/27/17 11:32	0.164	SVE-1	0.5	170	0.0167	49.0	39.20	3.87	0.2873	0.0645	0.0048	0.9583	0.0711
7/27/17 11:57	0.181	SVE-1	0.5	170	0.0174	43.0	34.40	3.87	0.2873	0.0672	0.0050	1.0255	0.0761
7/27/17 12:20	0.197	SVE-1	0.5	170	0.0160	38.0	30.40	3.41	0.2530	0.0544	0.0040	1.0799	0.0802
7/28/17 10:57	1.140	SVE-1	0.5	170	0.9424	10.3	8.24	2.03	0.1508	1.9147	0.1421	2.9947	0.2223
7/28/17 11:05	1.145	SVE-1	0.5	170	0.0056	10.5	8.40	0.88	0.0650	0.0049	0.0004	2.9995	0.2227
7/28/17 11:14	1.151	SVE-1	0.5	170	0.0062	10.5	8.40	0.88	0.0656	0.0055	0.0004	3.0050	0.2231

Total Operating Days	**1.151**
Total Pounds of Tetrachloroethene (PCE) Removed	**3.005**
Total Gallons of Tetrachloroethene (PCE) Removed	**0.2231**

PCE mass (lbs/Day): CFM * 1440 min/day * $1x10^{-6}$ * 165.83 g/mole * 1lb-mole/386 ft^3
PCE mass (gal/Day): PCE lbs/day / 13.47 @77°C

Client: RRM, Inc.

Table 1B
HVE System Parameters and Vapor-Phase Tetrachloroethene (PCE) Recovery Data
(Based on Laboratory Results)
SVE Test -- Well SVE-1
13778 Doolittle Avenue, San Leandro, California 94577-5532

WTI Job: #5343

Date / Time	Total Days	Extraction Well(s)	System Parameters		Vapor-Phase Tetrachloroethene Recovery Data							
			Vacuum (Inches Hg)	Flow (cfm)	Time Between Readings (Days)	Lab Results Influent (ppmv)	Mass Removal Rate (lbs/day)	Mass Removal Rate (gallons/day)	Mass Removed (lbs)	Mass Removed (gallons)	Cumulative Mass Removed (lbs)	Cumulative Mass Removed (gallons)
7/27/17 7:36	0.000	SVE-1	0.5	125	0.0000	1.8	0.14	0.0103	0.0000	0.0000	0.0000	0.0000
7/27/17 7:46	0.007	SVE-1	0.5	125	0.0069	1.8	0.14	0.0103	0.0010	0.0001	0.0010	0.0001
7/27/17 7:50	0.010	SVE-1	0.5	125	0.0028	1.8	0.14	0.0103	0.0004	0.0000	0.0014	0.0001
7/27/17 8:01	0.017	SVE-1	0.5	125	0.0076	1.8	0.14	0.0103	0.0011	0.0001	0.0024	0.0002
7/27/17 8:14	0.026	SVE-1	0.5	125	0.0090	1.8	0.14	0.0103	0.0013	0.0001	0.0037	0.0003
7/27/17 8:30	0.037	SVE-1	0.5	125	0.0111	1.8	0.14	0.0103	0.0015	0.0001	0.0052	0.0004
7/27/17 8:41	0.045	SVE-1	0.5	125	0.0076	1.8	0.14	0.0103	0.0011	0.0001	0.0063	0.0005
7/27/17 8:42	0.046	SVE-1	0.5	170	0.0007	1.8	0.16	0.0122	0.0001	0.0000	0.0064	0.0005
7/27/17 8:48	0.050	SVE-1	0.5	170	0.0042	1.8	0.19	0.0141	0.0008	0.0001	0.0072	0.0005
7/27/17 9:05	0.062	SVE-1	0.5	170	0.0118	1.8	0.19	0.0141	0.0022	0.0002	0.0094	0.0007
7/27/17 9:18	0.071	SVE-1	0.5	170	0.0090	1.8	0.19	0.0141	0.0017	0.0001	0.0111	0.0008
7/27/17 9:30	0.079	SVE-1	0.5	170	0.0083	1.8	0.19	0.0141	0.0016	0.0001	0.0127	0.0009
7/27/17 9:51	0.094	SVE-1	0.5	170	0.0146	1.8	0.19	0.0141	0.0028	0.0002	0.0155	0.0011
7/27/17 10:13	0.109	SVE-1	0.5	170	0.0153	1.8	0.19	0.0141	0.0029	0.0002	0.0184	0.0014
7/27/17 11:08	0.147	SVE-1	0.5	170	0.0382	1.8	0.19	0.0141	0.0072	0.0005	0.0256	0.0019
7/27/17 11:32	0.164	SVE-1	0.5	170	0.0167	1.8	0.19	0.0141	0.0032	0.0002	0.0287	0.0021
7/27/17 11:57	0.181	SVE-1	0.5	170	0.0174	1.8	0.19	0.0141	0.0033	0.0002	0.0320	0.0024
7/27/17 12:20	0.197	SVE-1	0.5	170	0.0160	1.8	0.19	0.0141	0.0030	0.0002	0.0351	0.0026
7/28/17 10:57	1.140	SVE-1	0.5	170	0.9424	7.5	0.49	0.0363	0.4608	0.0342	0.4959	0.0368
7/28/17 11:05	1.145	SVE-1	0.5	170	0.0056	7.5	0.79	0.0586	0.0044	0.0003	0.5003	0.0371
7/28/17 11:14	1.151	SVE-1	0.5	170	0.0062	7.5	0.79	0.0586	0.0049	0.0004	0.5052	0.0375

Total Operating Days	**1.151**
Total Pounds of Tetrachloroethene (PCE) Removed	**0.505**
Total Gallons of Tetrachloroethene (PCE) Removed	**0.0375**

PCE mass (lbs/Day): CFM * 1440 min/day * $1x10^{-6}$ * 165.83 g/mole * 1lb-mole/386 ft^3

PCE mass (gal/Day): PCE lbs/day / 13.47 @77°C

Table 2A
HVE System Parameters and Vapor-Phase Tetrachloroethene (PCE) Recovery Data
(Based on Field Analyzer Data)
SVE Test -- Well SVE-2
13778 Doolittle Avenue, San Leandro, California 94577-5532

Date / Time	Total Days	Extraction Well(s)	System Parameters		Vapor-Phase Tetrachloroethene Recovery Data								
			Vacuum (Inches Hg)	Flow (cfm)	Time Between Readings (Days)	PID Meter Influent (ppmv)	Corrected PID Meter Influent (ppmv)	Mass Removal Rate (lbs/day)	Mass Removal Rate (gallons/day)	Mass Removed (lbs)	Mass Removed (gallons)	Cumulative Mass Removed (lbs)	Cumulative Mass Removed (gallons)
7/28/17 11:20	0.000	SVE-2	0.5	170	0.0000	6.45	5.16	0.54	0.0403	0.0000	0.0000	0.0000	0.0000
7/28/17 11:21	0.001	SVE-2	0.5	170	0.0007	6.50	5.20	0.54	0.0404	0.0004	0.0000	0.0004	0.0000
7/28/17 11:26	0.004	SVE-2	0.5	170	0.0035	4.33	3.46	0.46	0.0338	0.0016	0.0001	0.0020	0.0001
7/28/17 11:50	0.021	SVE-2	0.5	170	0.0167	3.32	2.66	0.32	0.0239	0.0054	0.0004	0.0073	0.0005
7/28/17 12:37	0.053	SVE-2	0.5	170	0.0326	3.28	2.62	0.28	0.0206	0.0091	0.0007	0.0164	0.0012

Total Operating Days	**0.004**
Total Pounds of Tetrachloroethene (PCE) Removed	**0.016**
Total Gallons of Tetrachloroethene (PCE) Removed	**0.0012**

PCE mass (lbs/Day): CFM * 1440 min/day * $1x10^{-6}$ * 165.83 g/mole * 1lb-mole/386 ft^3
PCE mass (gal/Day): PCE lbs/day / 13.47 @77°C

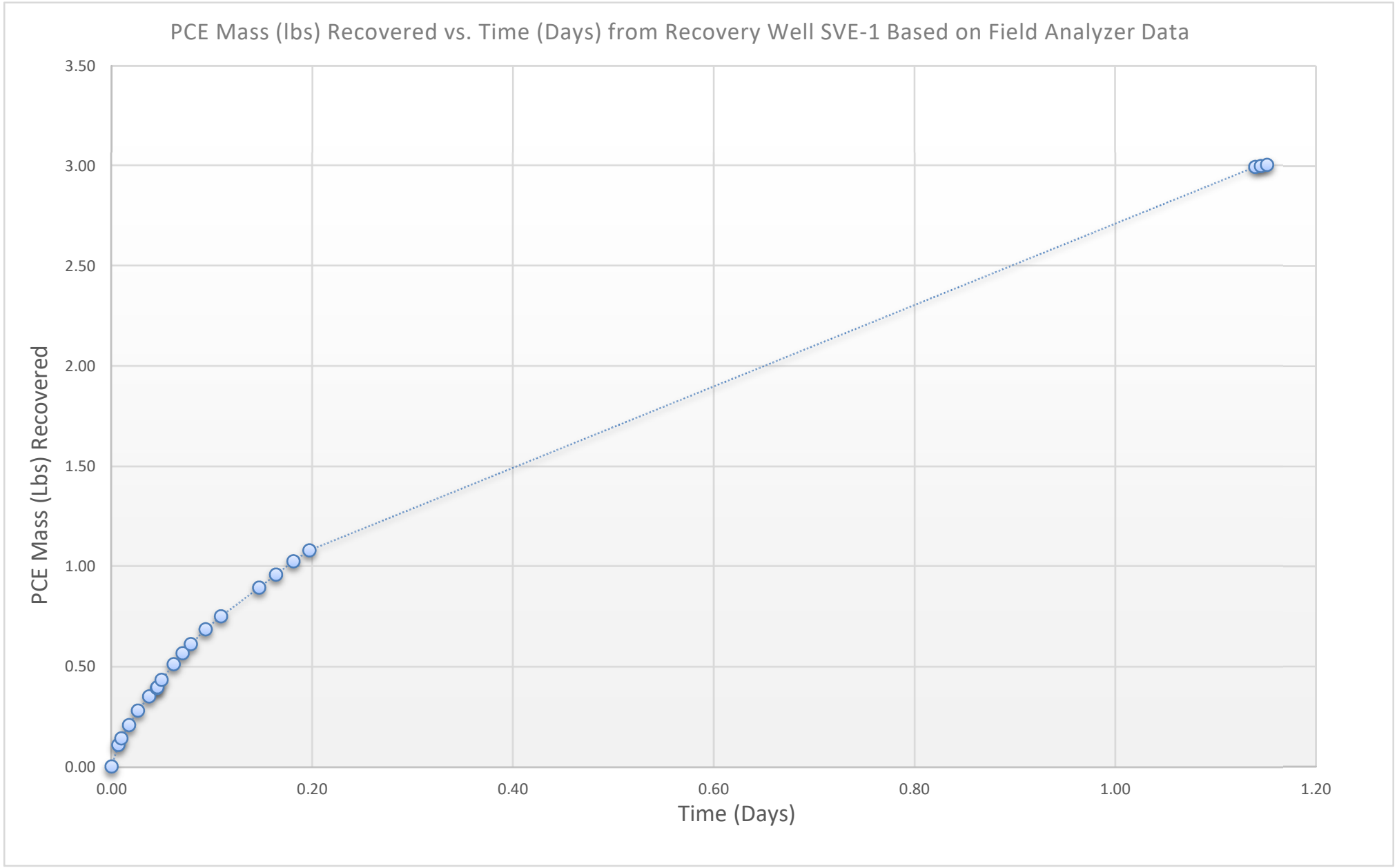
Table 2B
HVE System Parameters and Vapor-Phase Tetrachloroethene (PCE) Recovery Data
(Based on Laboratory Results)
SVE Test -- Well SVE-2
13778 Doolittle Avenue, San Leandro, California 94577-5532

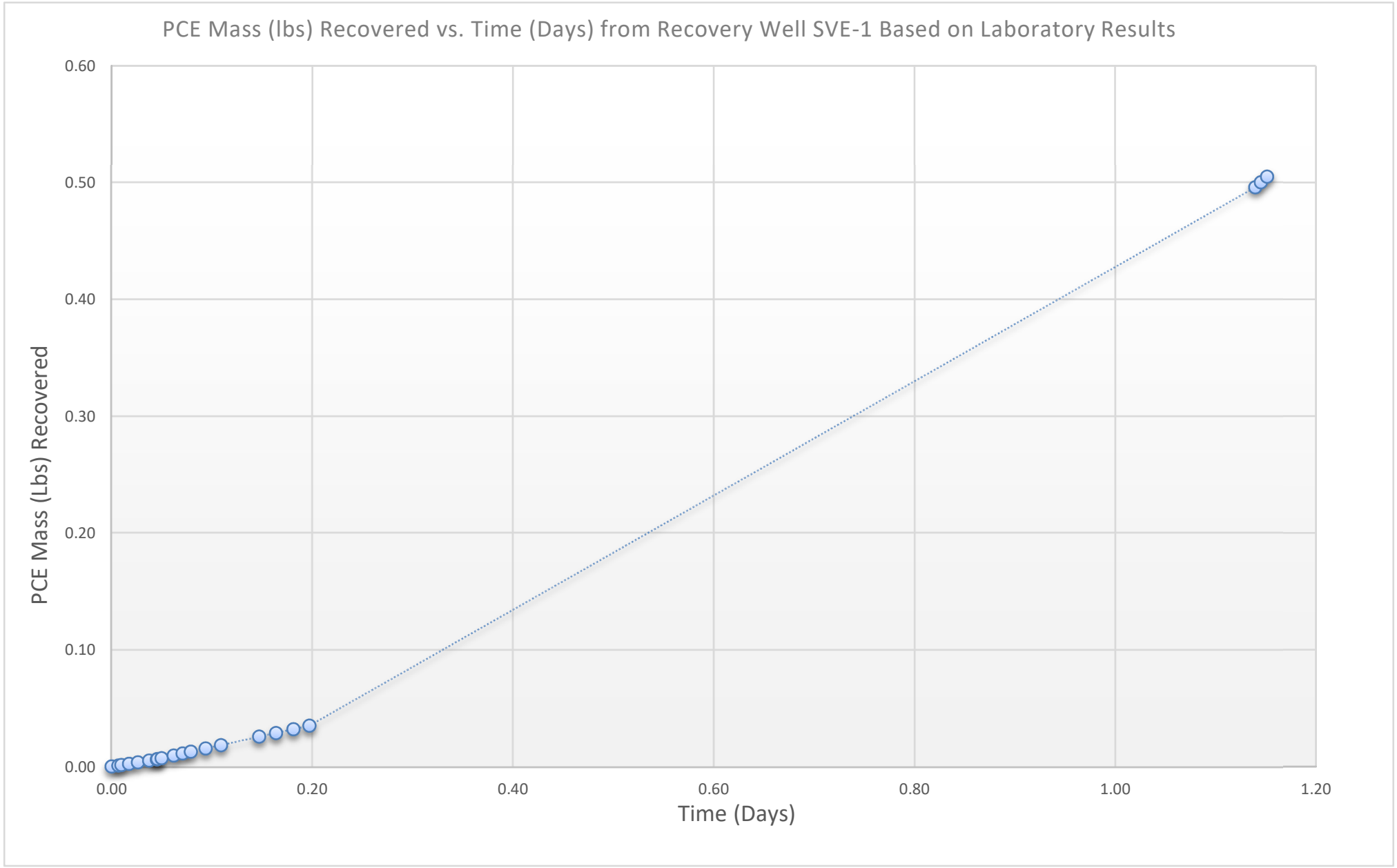
Date / Time	Total Days	Extraction Well(s)	System Parameters		Vapor-Phase Tetrachloroethene Recovery Data							
			Vacuum (Inches Hg)	Flow (cfm)	Time Between Readings (Days)	PID Meter Influent (ppmv)	Mass Removal Rate (lbs/day)	Mass Removal Rate (gallons/day)	Mass Removed (lbs)	Mass Removed (gallons)	Cumulative Mass Removed (lbs)	Cumulative Mass Removed (gallons)
7/28/17 11:20	0.000	SVE-2	0.5	170	0.0000	2.90	0.30	0.0226	0.0000	0.0000	0.0000	0.0000
7/28/17 11:21	0.001	SVE-2	0.5	170	0.0007	2.90	0.30	0.0226	0.0002	0.0000	0.0002	0.0000
7/28/17 11:26	0.004	SVE-2	0.5	170	0.0035	2.90	0.30	0.0226	0.0011	0.0001	0.0013	0.0001
7/28/17 11:50	0.021	SVE-2	0.5	170	0.0167	2.90	0.30	0.0226	0.0051	0.0004	0.0064	0.0005
7/28/17 12:37	0.053	SVE-2	0.5	170	0.0326	2.90	0.30	0.0226	0.0100	0.0007	0.0163	0.0012

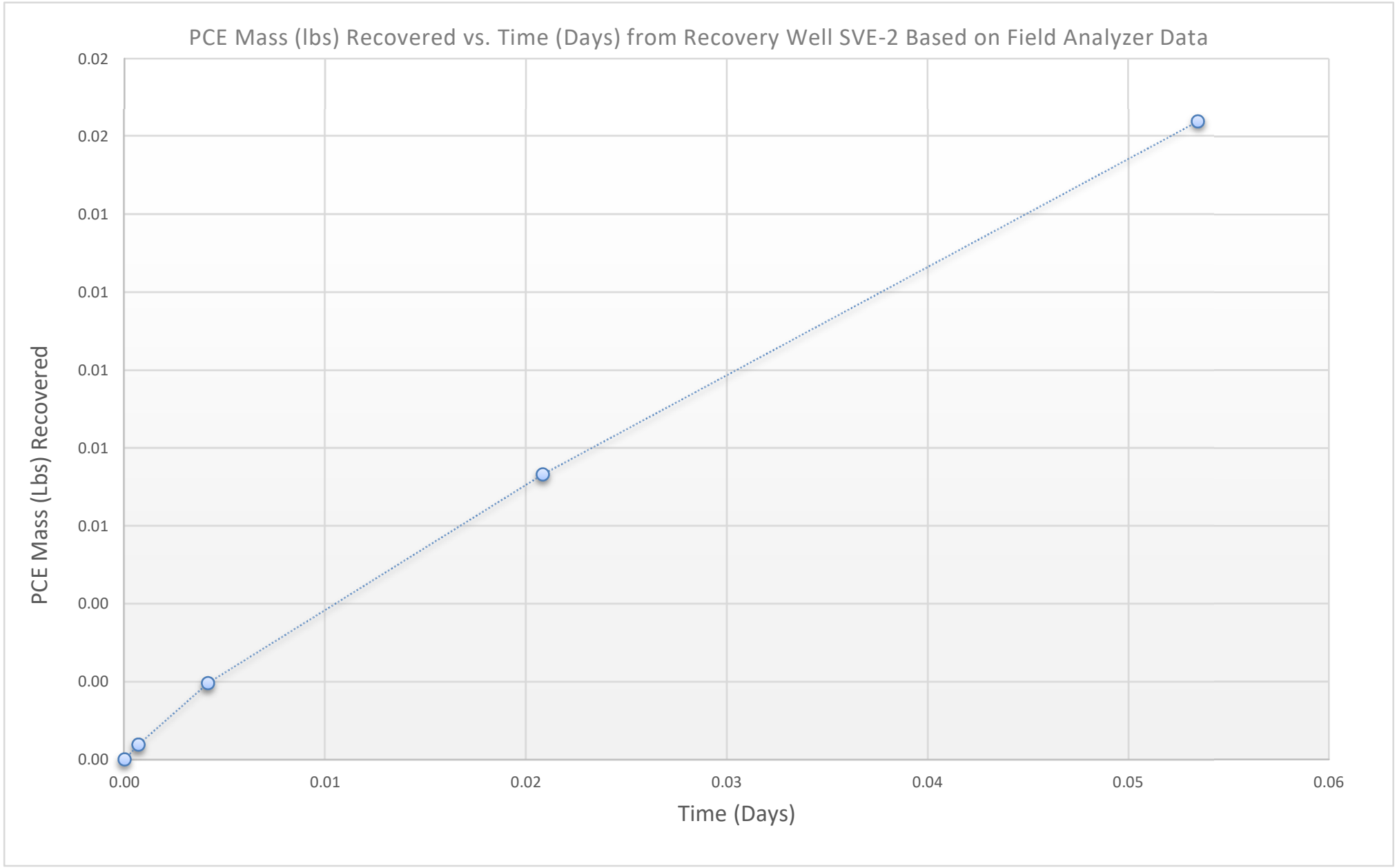
Total Operating Days	**0.004**
Total Pounds of Tetrachloroethene (PCE) Removed	**0.016**
Total Gallons of Tetrachloroethene (PCE) Removed	**0.0012**

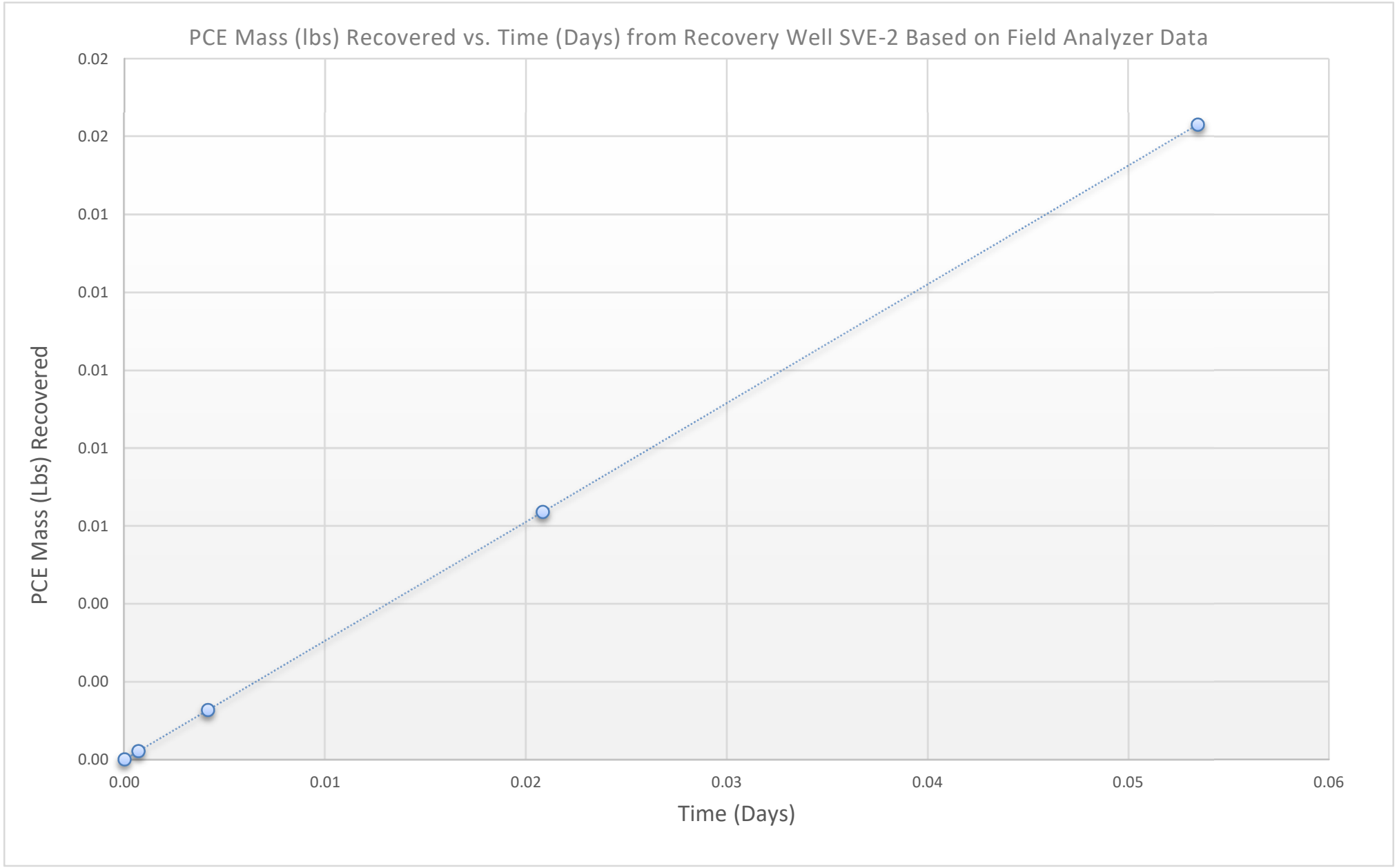
PCE mass (lbs/Day): CFM * 1440 min/day * $1x10^{-6}$ * 165.83 g/mole * 1lb-mole/386 ft^3
PCE mass (gal/Day): PCE lbs/day / 13.47 @77°C

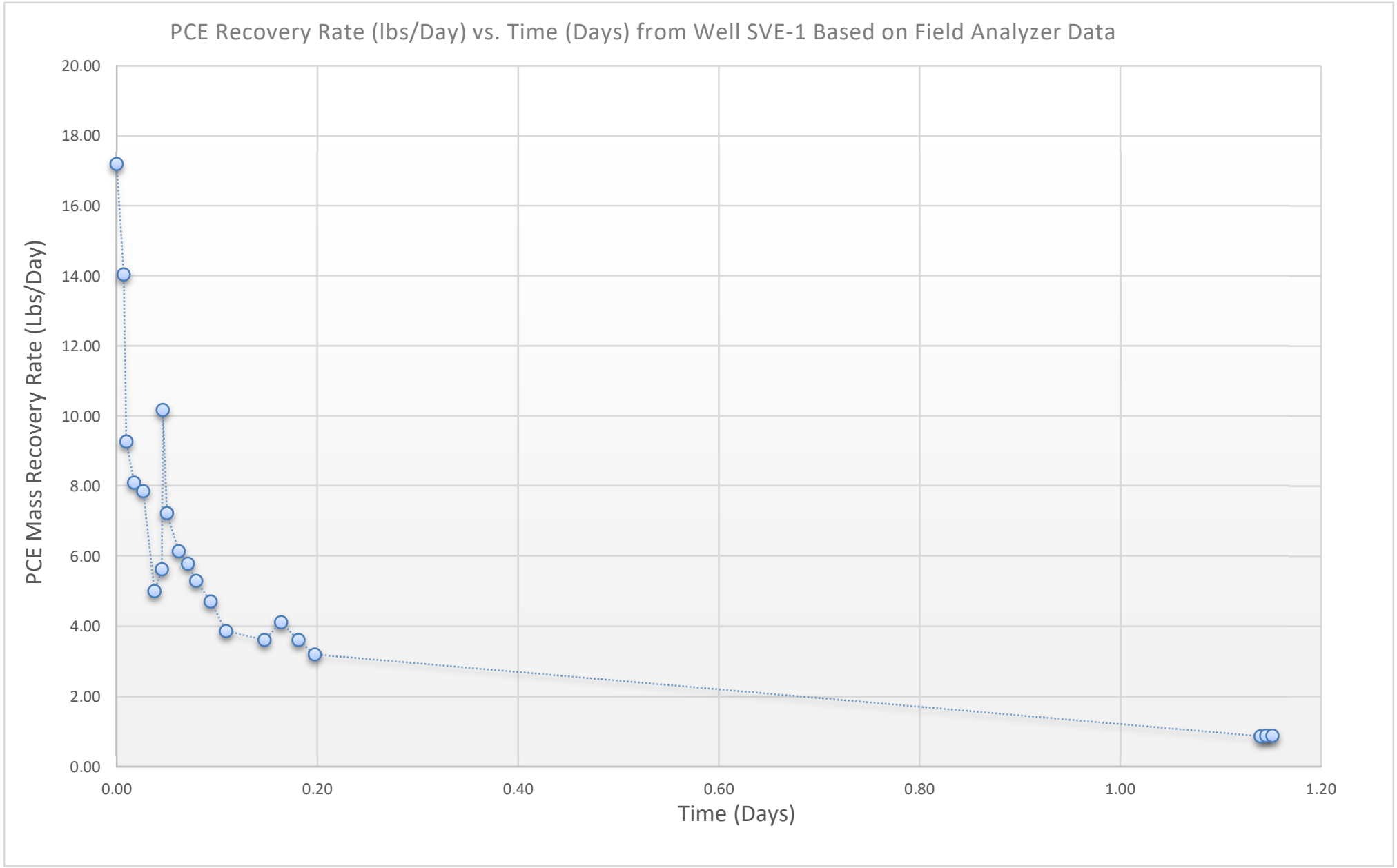
CHARTS


PCE Mass (lbs) Recovered vs. Time (Days) from Recovery Well SVE-1 Based on Field Analyzer Data
PCE Mass (Lbs) Recovered
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0.00
0.20
0.40
0.60
0.80
1.00
1.20
Time (Days)


PCE Mass (lbs) Recovered vs. Time (Days) from Recovery Well SVE-1 Based on Laboratory Results
PCE Mass (Lbs) Recovered
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0.00
0.20
0.40
0.60
0.80
1.00
1.20
Time (Days)


PCE Mass (lbs) Recovered vs. Time (Days) from Recovery Well SVE-2 Based on Field Analyzer Data
PCE Mass (Lbs) Recovered
0.02
0.02
0.01
0.01
0.01
0.01
0.01
0.00
0.00
0.00
0.00
0.01
0.02
0.03
0.04
0.05
0.06
Time (Days)


PCE Mass (lbs) Recovered vs. Time (Days) from Recovery Well SVE-2 Based on Field Analyzer Data
PCE Mass (Lbs) Recovered
0.02
0.02
0.01
0.01
0.01
0.01
0.01
0.00
0.00
0.00
0.00
0.01
0.02
0.03
0.04
0.05
0.06
Time (Days)


PCE Recovery Rate (lbs/Day) vs. Time (Days) from Well SVE-1 Based on Field Analyzer Data
PCE Mass Recovery Rate (Lbs/Day)
20.00
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0.00
0.20
0.40
0.60
0.80
1.00
1.20
Time (Days)

ATTACHMENT A

Chain of Custody Records and Analytical Reports

Date of Report: 08/07/2017

Bill Dugan

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

Client Project:	Four Season Cleaners
BCL Project:	RRM, Inc.
BCL Work Order:	1720730
Invoice ID:	B275319

Enclosed are the results of analyses for samples received by the laboratory on 7/28/2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Felicia Johnson
Client Service Rep

Stuart Buttram
Technical Director

Table of Contents

WellTest, Inc.
P.O. Box 8548
San Jose, CA 95155
Main Line: (408) 287-2175
Facsimile: (408) 287-2176

17-20730

CHAIN OF CUSTODY FORM

Turnaround Time: (working days) __ 10 day __ 3 day __ Same day __ 7 day __ 2 day __ other __ 5 day __ 1 day (_____)

Project Name: RRM - Four Seasons Cleaners
Project Number: 5363
Global I.D.: T10000006425
Project Address: 13778 Doolittle Drive, San Leandro, CA
Laboratory: BC Laboratories, Inc. Contact: Misty Orton
Lab Address/Phone: 4100 Atlas Court, Bakersfield, CA (800) 877-4911
Project Manager: Bill Dugan
PM Phone Number: (408) 460-1884 Email: dugan@welltest.com
Sampler: Bill Dugan Phone: (408) 460-1884

Sample Information						Container Information			Comments	Analyses Requested															
			Matrix																						
Sample ID	Date	Time	Soil	Water	Vapor	No.	Type	Preservative	Field Point Name Same as Sample ID (Y/N)	Full VOCs + IPA (TO-15)	TPHg/BTEX/MTBE (TO-3)	7 Metals (Cd, Cr, Cu, Ni, Pb, Ag, and Zn by 200.8)	TPHg/BTEX/5 Fuel Oxy's (8260B)	Confirm MTBE by GC/MS	TPHd, TPHk, TPHmo (8015M)	VOCs (8260)	HVOCs (8010)	SVOC's (8270)	7 Metals (Cadmium, Chromium	Priority Pollutant Metals (low detection) (7000/6010)	Silica Gel Cleanup	Ph (In the field)	Oil & Grease		
1 Influent	07/27/17	7:50			✓	1	Tedlar	Dark Bag	Influent	✓														
2 Effluent	07/27/17	7:50			✓	1	Tedlar	Dark Bag	Effluent	✓														

CHK BY: JM
DISTRIBUTION
SUB-OUT

Additional Comments: Invoice to WellTest, Inc. Send report and EDF to dugan@welltest.com

RESULTS IN ppmv

Geotracker EDF [x]

Relinquished By: _____ Date/Time: 7/27/17 1:34pm Received By: _____ Date/Time: 7/27/17 1330
Relinquished By: BC via GSO Date/Time: 7/27/17 1727 Received By: _____ 7.28.17 08:2 Date/Time: _____
Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Sample Condition: Good? Yes ___ No ___ Refrigerated ? Yes ___ No ___ Cooler Temp _____ Transportation Method: _____ Page 1 of 1

Container Type: V = 40 ml vial, L = 1 liter amber bottle, 500 ml = 500 milliliter bottle, T = tube (B - brass, S - stailess steel, P - plastic)

Preservative: HCL = Hydrochloric acid, N = Nitric acid, C = 4o C

FORM 1C

Chain of Custody and Cooler Receipt Form for 1720730 Page 2 of 2

BC LABORATORIES INC.	COOLER RECEIPT FORM	Page 1 Of 1
Submission #: 17-20730		

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ BC Lab Field Service ☐ Other ☒ (Specify) GSO	Ice Chest ☐ None ☐ Box ☒ Other ☐ (Specify)	YES ☐ NO ☐ W / S

Refrigerant: Ice ☐ Blue Ice ☐ None ☒ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☒ YES ☐ NO

Emissivity: Container: Tedlar Thermometer ID:

Temperature: (A) Room °C / (C) Temp °C

Date/Time 7-28-17

Analyst Init AD 08:28

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG	A	A								
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: JM Date/Time: 7-27 17 0905

A = Actual / C = Corrected

Rev 21 05/23/2016

[S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20]

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

Reported: 08/07/2017 14:40
Project: RRM, Inc.
Project Number: Four Season Cleaners
Project Manager: Bill Dugan

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1720730-01	**COC Number:**	---	**Receive Date:**	07/28/2017 08:28
	Project Number:	RRM-Four Season Cleaners	**Sampling Date:**	07/27/2017 07:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	Influent	**Lab Matrix:**	Air
	Sampled By:	Bill Dugan of WTI	**Sample Type:**	Vapor or Air
1720730-02	**COC Number:**	---	**Receive Date:**	07/28/2017 08:28
	Project Number:	RRM-Four Season Cleaners	**Sampling Date:**	07/27/2017 07:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	Effluent	**Lab Matrix:**	Air
	Sampled By:	Bill Dugan of WTI	**Sample Type:**	Vapor or Air

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

Reported: 08/07/2017 14:40
Project: RRM, Inc.
Project Number: Four Season Cleaners
Project Manager: Bill Dugan

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1720730-01 | **Client Sample Name:** RRM-Four Season Cleaners, Influent, 7/27/2017 7:50:00AM, Bill Dugan

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,1-Difluoroethane	ND	ppmv	20	1.0	EPA-TO-15	ND	A01	1
Acetone	**0.011**	**ppmv**	**0.010**	**0.0016**	**EPA-TO-15**	ND	**A01**	1
Acrylonitrile	ND	ppmv	0.010	0.0010	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ppmv	0.0050	0.00080	EPA-TO-15	ND	A01	1
t-Amyl Methyl ether	ND	ppmv	0.010	0.0014	EPA-TO-15	ND	A01	1
Benzene	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ppmv	0.010	0.0012	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ppmv	0.0050	0.00059	EPA-TO-15	ND	A01	1
Bromoform	ND	ppmv	0.0050	0.00068	EPA-TO-15	ND	A01	1
Bromomethane	ND	ppmv	0.0050	0.0014	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ppmv	0.0050	0.0011	EPA-TO-15	ND	A01	1
t-Butyl alcohol	ND	ppmv	0.010	0.0034	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ppmv	0.0050	0.00059	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ppmv	0.0050	0.00070	EPA-TO-15	ND	A01	1
Chloroethane	ND	ppmv	0.0050	0.0012	EPA-TO-15	ND	A01	1
Chloroform	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
Chloromethane	ND	ppmv	0.0050	0.0014	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ppmv	0.0050	0.00051	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
1,2-Dibromo-3-chloropropane	ND	ppmv	0.0050	0.00087	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ppmv	0.0050	0.00053	EPA-TO-15	ND	A01	1
Dibromomethane	ND	ppmv	0.0050	0.00064	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ppmv	0.0050	0.00064	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ppmv	0.0050	0.0010	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ppmv	0.0050	0.00091	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ppmv	0.0050	0.00075	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ppmv	0.0050	0.00067	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	**0.57**	**ppmv**	**0.0050**	**0.00056**	**EPA-TO-15**	ND	**A01**	1
trans-1,2-Dichloroethene	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
Total 1,2-Dichloroethene	ND	ppmv	0.010	0.0011	EPA-TO-15	ND	A01	1

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

Reported: 08/07/2017 14:40
Project: RRM, Inc.
Project Number: Four Season Cleaners
Project Manager: Bill Dugan

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1720730-01 | **Client Sample Name:** RRM-Four Season Cleaners, Influent, 7/27/2017 7:50:00AM, Bill Dugan

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dichloropropane	ND	ppmv	0.0050	0.00063	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ppmv	0.0050	0.00065	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ppmv	0.0050	0.0011	EPA-TO-15	ND	A01	1
Diisopropyl ether	ND	ppmv	0.010	0.0011	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ppmv	0.0050	0.0015	EPA-TO-15	ND	A01	1
Ethanol	ND	ppmv	0.010	0.0039	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ppmv	0.0050	0.0011	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ppmv	0.0050	0.00081	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	ND	ppmv	0.0050	0.0011	EPA-TO-15	ND	A01	1
Ethyl t-butyl ether	ND	ppmv	0.010	0.0012	EPA-TO-15	ND	A01	1
n-Heptane	ND	ppmv	0.0050	0.00072	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ppmv	0.0050	0.0023	EPA-TO-15	ND	A01	1
Hexane	ND	ppmv	0.010	0.00055	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ppmv	0.0050	0.00082	EPA-TO-15	ND	A01	1
Isooctane	ND	ppmv	0.0050	0.00079	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ppmv	0.0050	0.0019	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ppmv	0.0050	0.00064	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	ND	ppmv	0.0050	0.0014	EPA-TO-15	ND	A01	1
Methyl iodide	ND	ppmv	0.010	0.0010	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ppmv	0.0050	0.0017	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ppmv	0.0050	0.00097	EPA-TO-15	ND	A01	1
Naphthalene	ND	ppmv	0.050	0.0050	EPA-TO-15	ND	A01	1
Propylene	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
Styrene	ND	ppmv	0.0050	0.00088	EPA-TO-15	ND	A01	1
1,1,1,2-Tetrachloroethane	ND	ppmv	0.0050	0.00075	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ppmv	0.0050	0.0016	EPA-TO-15	ND	A01	1
Tetrachloroethene	**1.8**	**ppmv**	**0.0050**	**0.00050**	**EPA-TO-15**	ND	**A01**	1
Tetrahydrofuran	ND	ppmv	0.0050	0.0014	EPA-TO-15	ND	A01	1
Toluene	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ppmv	0.010	0.00078	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ppmv	0.0050	0.00051	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1

Well Test, Inc.
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San Jose, CA 95125

Reported: 08/07/2017 14:40
Project: RRM, Inc.
Project Number: Four Season Cleaners
Project Manager: Bill Dugan

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1720730-01 | **Client Sample Name:** RRM-Four Season Cleaners, Influent, 7/27/2017 7:50:00AM, Bill Dugan

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Trichloroethene	**1.4**	**ppmv**	**0.0050**	**0.00070**	**EPA-TO-15**	ND	**A01**	1
Trichlorofluoromethane	ND	ppmv	0.0050	0.00052	EPA-TO-15	ND	A01	1
1,2,3-Trichloropropane	ND	ppmv	0.0050	0.0011	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	ND	ppmv	0.0050	0.0013	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ppmv	0.0050	0.0030	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ppmv	0.0050	0.00088	EPA-TO-15	ND	A01	1
Vinyl bromide	ND	ppmv	0.0050	0.0013	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ppmv	0.0050	0.0011	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ppmv	0.0050	0.0019	EPA-TO-15	ND	A01	1
o-Xylene	ND	ppmv	0.0050	0.0012	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ppmv	0.010	0.0031	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	96.7	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	07/29/17	07/29/17 19:02	MJB	HPCHEM	10	B[H0064

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

Reported: 08/07/2017 14:40
Project: RRM, Inc.
Project Number: Four Season Cleaners
Project Manager: Bill Dugan

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1720730-02 | **Client Sample Name:** RRM-Four Season Cleaners, Effluent, 7/27/2017 7:50:00AM, Bill Dugan

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,1-Difluoroethane	ND	ppmv	20	1.0	EPA-TO-15	ND	A01	1
Acetone	ND	ppmv	0.010	0.0016	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ppmv	0.010	0.0010	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ppmv	0.0050	0.00080	EPA-TO-15	ND	A01	1
t-Amyl Methyl ether	ND	ppmv	0.010	0.0014	EPA-TO-15	ND	A01	1
Benzene	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ppmv	0.010	0.0012	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ppmv	0.0050	0.00059	EPA-TO-15	ND	A01	1
Bromoform	ND	ppmv	0.0050	0.00068	EPA-TO-15	ND	A01	1
Bromomethane	ND	ppmv	0.0050	0.0014	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ppmv	0.0050	0.0011	EPA-TO-15	ND	A01	1
t-Butyl alcohol	ND	ppmv	0.010	0.0034	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ppmv	0.0050	0.00059	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ppmv	0.0050	0.00070	EPA-TO-15	ND	A01	1
Chloroethane	ND	ppmv	0.0050	0.0012	EPA-TO-15	ND	A01	1
Chloroform	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
Chloromethane	ND	ppmv	0.0050	0.0014	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ppmv	0.0050	0.00051	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
1,2-Dibromo-3-chloropropane	ND	ppmv	0.0050	0.00087	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ppmv	0.0050	0.00053	EPA-TO-15	ND	A01	1
Dibromomethane	ND	ppmv	0.0050	0.00064	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ppmv	0.0050	0.00064	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ppmv	0.0050	0.0010	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ppmv	0.0050	0.00091	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ppmv	0.0050	0.00075	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ppmv	0.0050	0.00067	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ppmv	0.0050	0.00056	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
Total 1,2-Dichloroethene	ND	ppmv	0.010	0.0011	EPA-TO-15	ND	A01	1

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Project: RRM, Inc.
Project Number: Four Season Cleaners
Project Manager: Bill Dugan

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1720730-02 | **Client Sample Name:** RRM-Four Season Cleaners, Effluent, 7/27/2017 7:50:00AM, Bill Dugan

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dichloropropane	ND	ppmv	0.0050	0.00063	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ppmv	0.0050	0.00065	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ppmv	0.0050	0.0011	EPA-TO-15	ND	A01	1
Diisopropyl ether	ND	ppmv	0.010	0.0011	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ppmv	0.0050	0.0015	EPA-TO-15	ND	A01	1
Ethanol	ND	ppmv	0.010	0.0039	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ppmv	0.0050	0.0011	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ppmv	0.0050	0.00081	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	ND	ppmv	0.0050	0.0011	EPA-TO-15	ND	A01	1
Ethyl t-butyl ether	ND	ppmv	0.010	0.0012	EPA-TO-15	ND	A01	1
n-Heptane	ND	ppmv	0.0050	0.00072	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ppmv	0.0050	0.0023	EPA-TO-15	ND	A01	1
Hexane	ND	ppmv	0.010	0.00055	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ppmv	0.0050	0.00082	EPA-TO-15	ND	A01	1
Isooctane	ND	ppmv	0.0050	0.00079	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ppmv	0.0050	0.0019	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ppmv	0.0050	0.00064	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	ND	ppmv	0.0050	0.0014	EPA-TO-15	ND	A01	1
Methyl iodide	ND	ppmv	0.010	0.0010	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ppmv	0.0050	0.0017	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ppmv	0.0050	0.00097	EPA-TO-15	ND	A01	1
Naphthalene	ND	ppmv	0.050	0.0050	EPA-TO-15	ND	A01	1
Propylene	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
Styrene	ND	ppmv	0.0050	0.00088	EPA-TO-15	ND	A01	1
1,1,1,2-Tetrachloroethane	ND	ppmv	0.0050	0.00075	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ppmv	0.0050	0.0016	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ppmv	0.0050	0.0014	EPA-TO-15	ND	A01	1
Toluene	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ppmv	0.010	0.00078	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ppmv	0.0050	0.00051	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1

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Project Number: Four Season Cleaners
Project Manager: Bill Dugan

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1720730-02 | **Client Sample Name:** RRM-Four Season Cleaners, Effluent, 7/27/2017 7:50:00AM, Bill Dugan

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Trichloroethene	ND	ppmv	0.0050	0.00070	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	ND	ppmv	0.0050	0.00052	EPA-TO-15	ND	A01	1
1,2,3-Trichloropropane	ND	ppmv	0.0050	0.0011	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	ND	ppmv	0.0050	0.0013	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ppmv	0.0050	0.0030	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ppmv	0.0050	0.00088	EPA-TO-15	ND	A01	1
Vinyl bromide	ND	ppmv	0.0050	0.0013	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ppmv	0.0050	0.0011	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ppmv	0.0050	0.0019	EPA-TO-15	ND	A01	1
o-Xylene	ND	ppmv	0.0050	0.0012	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ppmv	0.010	0.0031	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	90.8	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	07/29/17	07/29/17 18:31	MJB	HPCHEM	10	B[H0064

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

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Project: RRM, Inc.
Project Number: Four Season Cleaners
Project Manager: Bill Dugan

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[H0064						
1,1-Difluoroethane	B[H0064-BLK1	ND	ppmv	2.0	0.10	
Acetone	B[H0064-BLK1	ND	ppmv	0.0010	0.00016	
Acrylonitrile	B[H0064-BLK1	ND	ppmv	0.0010	0.00010	
Allyl chloride	B[H0064-BLK1	ND	ppmv	0.00050	0.000080	
t-Amyl Methyl ether	B[H0064-BLK1	ND	ppmv	0.0010	0.00014	
Benzene	B[H0064-BLK1	ND	ppmv	0.00050	0.000050	
Benzyl chloride	B[H0064-BLK1	ND	ppmv	0.0010	0.00012	
Bromodichloromethane	B[H0064-BLK1	ND	ppmv	0.00050	0.000059	
Bromoform	B[H0064-BLK1	ND	ppmv	0.00050	0.000068	
Bromomethane	B[H0064-BLK1	ND	ppmv	0.00050	0.00014	
1,3-Butadiene	B[H0064-BLK1	ND	ppmv	0.00050	0.00011	
t-Butyl alcohol	B[H0064-BLK1	ND	ppmv	0.0010	0.00034	
Carbon disulfide	B[H0064-BLK1	ND	ppmv	0.00050	0.000050	
Carbon tetrachloride	B[H0064-BLK1	ND	ppmv	0.00050	0.000059	
Chlorobenzene	B[H0064-BLK1	ND	ppmv	0.00050	0.000070	
Chloroethane	B[H0064-BLK1	ND	ppmv	0.00050	0.00012	
Chloroform	B[H0064-BLK1	ND	ppmv	0.00050	0.000050	
Chloromethane	B[H0064-BLK1	ND	ppmv	0.00050	0.00014	
Cyclohexane	B[H0064-BLK1	ND	ppmv	0.00050	0.000051	
Dibromochloromethane	B[H0064-BLK1	ND	ppmv	0.00050	0.000050	
1,2-Dibromo-3-chloropropane	B[H0064-BLK1	ND	ppmv	0.00050	0.000087	
1,2-Dibromoethane	B[H0064-BLK1	ND	ppmv	0.00050	0.000053	
Dibromomethane	B[H0064-BLK1	ND	ppmv	0.00050	0.000064	
1,2-Dichlorobenzene	B[H0064-BLK1	ND	ppmv	0.00050	0.000064	
1,3-Dichlorobenzene	B[H0064-BLK1	ND	ppmv	0.00050	0.00010	
1,4-Dichlorobenzene	B[H0064-BLK1	ND	ppmv	0.00050	0.000091	
Dichlorodifluoromethane	B[H0064-BLK1	ND	ppmv	0.00050	0.000075	
1,1-Dichloroethane	B[H0064-BLK1	ND	ppmv	0.00050	0.000067	
1,2-Dichloroethane	B[H0064-BLK1	ND	ppmv	0.00050	0.000050	
1,1-Dichloroethene	B[H0064-BLK1	ND	ppmv	0.00050	0.000050	
cis-1,2-Dichloroethene	B[H0064-BLK1	ND	ppmv	0.00050	0.000056	
trans-1,2-Dichloroethene	B[H0064-BLK1	ND	ppmv	0.00050	0.000050	
Total 1,2-Dichloroethene	B[H0064-BLK1	ND	ppmv	0.0010	0.00011	
1,2-Dichloropropane	B[H0064-BLK1	ND	ppmv	0.00050	0.000063	

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Project Manager: Bill Dugan

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[H0064						
cis-1,3-Dichloropropene	B[H0064-BLK1	ND	ppmv	0.00050	0.000050	
trans-1,3-Dichloropropene	B[H0064-BLK1	ND	ppmv	0.00050	0.000065	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B[H0064-BLK1	ND	ppmv	0.00050	0.00011	
Diisopropyl ether	B[H0064-BLK1	ND	ppmv	0.0010	0.00011	
1,4-Dioxane	B[H0064-BLK1	ND	ppmv	0.00050	0.00015	
Ethanol	B[H0064-BLK1	ND	ppmv	0.0010	0.00039	
Ethyl acetate	B[H0064-BLK1	ND	ppmv	0.00050	0.00011	
Ethylbenzene	B[H0064-BLK1	ND	ppmv	0.00050	0.000081	
1-Ethyl-4-methylbenzene	B[H0064-BLK1	ND	ppmv	0.00050	0.00011	
Ethyl t-butyl ether	B[H0064-BLK1	ND	ppmv	0.0010	0.00012	
n-Heptane	B[H0064-BLK1	ND	ppmv	0.00050	0.000072	
Hexachlorobutadiene	B[H0064-BLK1	ND	ppmv	0.00050	0.00023	
Hexane	B[H0064-BLK1	ND	ppmv	0.0010	0.000055	
2-Hexanone	B[H0064-BLK1	ND	ppmv	0.00050	0.000082	
Isooctane	B[H0064-BLK1	ND	ppmv	0.00050	0.000079	
Isopropyl alcohol	B[H0064-BLK1	ND	ppmv	0.00050	0.00019	
Methylene chloride	B[H0064-BLK1	ND	ppmv	0.00050	0.000064	
Methyl ethyl ketone	B[H0064-BLK1	ND	ppmv	0.00050	0.00014	
Methyl iodide	B[H0064-BLK1	ND	ppmv	0.0010	0.00010	
Methyl isobutyl ketone	B[H0064-BLK1	ND	ppmv	0.00050	0.00017	
Methyl t-butyl ether	B[H0064-BLK1	ND	ppmv	0.00050	0.000097	
Naphthalene	B[H0064-BLK1	ND	ppmv	0.0050	0.00050	
Propylene	B[H0064-BLK1	ND	ppmv	0.00050	0.000050	
Styrene	B[H0064-BLK1	ND	ppmv	0.00050	0.000088	
1,1,1,2-Tetrachloroethane	B[H0064-BLK1	ND	ppmv	0.00050	0.000075	
1,1,2,2-Tetrachloroethane	B[H0064-BLK1	ND	ppmv	0.00050	0.00016	
Tetrachloroethene	B[H0064-BLK1	ND	ppmv	0.00050	0.000050	
Tetrahydrofuran	B[H0064-BLK1	ND	ppmv	0.00050	0.00014	
Toluene	B[H0064-BLK1	ND	ppmv	0.00050	0.000050	
1,2,4-Trichlorobenzene	B[H0064-BLK1	ND	ppmv	0.0010	0.000078	
1,1,1-Trichloroethane	B[H0064-BLK1	ND	ppmv	0.00050	0.000051	
1,1,2-Trichloroethane	B[H0064-BLK1	ND	ppmv	0.00050	0.000050	
Trichloroethene	B[H0064-BLK1	ND	ppmv	0.00050	0.000070	
Trichlorofluoromethane	B[H0064-BLK1	ND	ppmv	0.00050	0.000052	

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

Reported: 08/07/2017 14:40
Project: RRM, Inc.
Project Number: Four Season Cleaners
Project Manager: Bill Dugan

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[H0064						
1,2,3-Trichloropropane	B[H0064-BLK1	ND	ppmv	0.00050	0.00011	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[H0064-BLK1	ND	ppmv	0.00050	0.000050	
1,2,4-Trimethylbenzene	B[H0064-BLK1	ND	ppmv	0.00050	0.00013	
1,3,5-Trimethylbenzene	B[H0064-BLK1	ND	ppmv	0.00050	0.00030	
Vinyl acetate	B[H0064-BLK1	ND	ppmv	0.00050	0.000088	
Vinyl bromide	B[H0064-BLK1	ND	ppmv	0.00050	0.00013	
Vinyl chloride	B[H0064-BLK1	ND	ppmv	0.00050	0.00011	
p- & m-Xylenes	B[H0064-BLK1	ND	ppmv	0.00050	0.00019	
o-Xylene	B[H0064-BLK1	ND	ppmv	0.00050	0.00012	
Total Xylenes	B[H0064-BLK1	ND	ppmv	0.0010	0.00031	
4-Bromofluorobenzene (Surrogate)	**B[H0064-BLK1**	**88.8**	%	**70 - 130 (LCL - UCL)**		

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

Reported: 08/07/2017 14:40
Project: RRM, Inc.
Project Number: Four Season Cleaners
Project Manager: Bill Dugan

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B[H0064										
Benzene	B[H0064-BS1	LCS	0.0047070	0.0050000	ppmv	94.1		70 - 130		
	B[H0064-BSD1	LCSD	0.0047170	0.0050000	ppmv	94.3	0.2	70 - 130	30	
Chloroform	B[H0064-BS1	LCS	0.0051910	0.0050000	ppmv	104		70 - 130		
	B[H0064-BSD1	LCSD	0.0052310	0.0050000	ppmv	105	0.8	70 - 130	30	
Ethylbenzene	B[H0064-BS1	LCS	0.0047090	0.0050000	ppmv	94.2		70 - 130		
	B[H0064-BSD1	LCSD	0.0046760	0.0050000	ppmv	93.5	0.7	70 - 130	30	
Tetrachloroethene	B[H0064-BS1	LCS	0.0050960	0.0050000	ppmv	102		70 - 130		
	B[H0064-BSD1	LCSD	0.0051080	0.0050000	ppmv	102	0.2	70 - 130	30	
Toluene	B[H0064-BS1	LCS	0.0045950	0.0050000	ppmv	91.9		70 - 130		
	B[H0064-BSD1	LCSD	0.0046440	0.0050000	ppmv	92.9	1.1	70 - 130	30	
Trichloroethene	B[H0064-BS1	LCS	0.0051350	0.0050000	ppmv	103		70 - 130		
	B[H0064-BSD1	LCSD	0.0052050	0.0050000	ppmv	104	1.4	70 - 130	30	
Trichlorofluoromethane	B[H0064-BS1	LCS	0.0053940	0.0050000	ppmv	108		70 - 130		
	B[H0064-BSD1	LCSD	0.0054650	0.0050000	ppmv	109	1.3	70 - 130	30	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[H0064-BS1	LCS	0.0049430	0.0050000	ppmv	98.9		70 - 130		
	B[H0064-BSD1	LCSD	0.0049350	0.0050000	ppmv	98.7	0.2	70 - 130	30	
p- & m-Xylenes	B[H0064-BS1	LCS	0.010436	0.010000	ppmv	104		70 - 130		
	B[H0064-BSD1	LCSD	0.010469	0.010000	ppmv	105	0.3	70 - 130	30	
o-Xylene	B[H0064-BS1	LCS	0.0054320	0.0050000	ppmv	109		70 - 130		
	B[H0064-BSD1	LCSD	0.0054580	0.0050000	ppmv	109	0.5	70 - 130	30	
Total Xylenes	B[H0064-BS1	LCS	0.015868	0.015000	ppmv	106		70 - 130		
	B[H0064-BSD1	LCSD	0.015927	0.015000	ppmv	106	0.4	70 - 130	30	
4-Bromofluorobenzene (Surrogate)	B[H0064-BS1	LCS	0.00946	0.0100	ppmv	94.6		70 - 130		
	B[H0064-BSD1	LCSD	0.00948	0.0100	ppmv	94.8	0.2	70 - 130		

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

Reported: 08/07/2017 14:40
Project: RRM, Inc.
Project Number: Four Season Cleaners
Project Manager: Bill Dugan

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A01	Detection and quantitation limits are raised due to sample dilution.

Date of Report: 08/15/2017

Bill Dugan

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

Client Project:	Four Season Cleaners
BCL Project:	RRM, Inc.
BCL Work Order:	1720861
Invoice ID:	B274949

Enclosed are the results of analyses for samples received by the laboratory on 7/28/2017. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1000632240

Sincerely,

Contact Person: Felicia Johnson
Client Service Rep

Stuart Buttram
Technical Director

Table of Contents

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

17-208Ce1

WellTest, Inc.
P.O. Box 8548
San Jose, CA 95155
Main Line: (408) 287-2175
Facsimile: (408) 287-2176

CHAIN OF CUSTODY FORM

RUSH!

Turnaround Time: (working days) — 10 day, 7 day, ✓ 5 day, 3 day, 2 day, 1 day, Same day, other ( )

Project Name: RRM - Four Seasons Cleaners
Project Number: 5363
Global I.D.: T10000006425
Project Address: 13778 Doolittle Drive, San Leandro, CA
Laboratory: BC Laboratories, Inc. Contact: Misty Orton
Lab Address/Phone: 4100 Atlas Court, Bakersfield, CA (800) 877-4911
Project Manager: Bill Dugan
PM Phone Number: (408) 460-1884 Email: dugan@welltest.com
Sampler: Bill Dugan Phone: (408) 460-1884

Sample Information						Container Information			Comments	Analyses Requested																
			Matrix							Full VOCS + IPA (TO-15)	TPHg/BTEX/MTBE (TO-3)	7 Metals (Cd, Cr, Cu, Ni, Pb, Ag, and Zn by 200.8)	TPHg/BTEX/5 Fuel Oxy's (8260B)	Confirm MTBE by GC/MS	TPHd, TPHk, TPHmo (8015M)	VOCs (8260)	HVOCs (8010)	SVOC's (8270)	7 Metals (Cadmium, Chromium	Priority Pollutant Metals (low detection) (7000/6010)	Silica Gel Cleanup	Ph (In the field)	Oil & Grease	
Sample ID	Date	Time	Soil	Water	Vapor	No.	Type	Preservative	Field Point Name Same as Sample ID (Y/N)																	
-1 Influent SV-1	07/28/17	11:00			✓	1	Tedlar	Dark Bag	Influent	✓																
-2 Influent SV-2	07/28/17	7:50			✓	1	Tedlar	Dark Bag	Effluent	✓																

CHK BY DISTRIBUTION SUB-OUT

Additional Comments: Invoice to WellTest, Inc. Send report and EDF to dugan@welltest.com **RESULTS IN ppmv**

Geotracker EDF [x]

Relinquished By: _____ Date/Time: 7/28/17 2:45 pm
Relinquished By: BCL VIA ONTRAC Date/Time: 7/28/17 1701
Relinquished By: _____ Date/Time: _____

Received By: BCL Date/Time: 7/28/17 1645
Received By: _____ Date/Time: 7.28 1250
Received By: _____ Date/Time: _____

Sample Condition: Good? Yes ___ No ___ Refrigerated ? Yes ___ No ___ Cooler Temp _____ Transportation Method: _____ Page 1 of 1

Container Type: V = 40 ml vial, L = 1 liter amber bottle, 500 ml = 500 milliliter bottle, T = tube (B - brass, S - stailess steel, P - plastic) **Preservative:** HCL = Hydrochloric acid, N = Nitric acid, C = 4o C

FORM 1C

Chain of Custody and Cooler Receipt Form for 1720861 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 17-20861

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☒ Hand Delivery ☐	Ice Chest ☐ None ☐ Box ☒	YES ☐ NO ☐
BC Lab Field Service ☐ Other ☐ (Specify)_____	Other ☐ (Specify)_____	A W / S

Refrigerant: Ice ☐ Blue Ice ☐ None ☒ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: — Container: Tedlars Thermometer ID: —

Temperature: (A) Room °C / (C) Temp °C

Date/Time 7.29 ~~1450~~ 1250

Analyst Init

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG	A	A								
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: Nyg Date/Time: 7-31-17 0800

A = Actual / C = Corrected

Rev 21 05/23/2016

[S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMRECrev 20]

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

Reported: 08/15/2017 9:33
Project: RRM, Inc.
Project Number: Four Season Cleaners
Project Manager: Bill Dugan

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1720861-01	**COC Number:**	---	**Receive Date:**	07/28/2017 12:50
	Project Number:	RRM-Four Season Cleaners	**Sampling Date:**	07/28/2017 11:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	Influent SV-1	**Lab Matrix:**	Air
	Sampled By:	WTI	**Sample Type:**	Vapor or Air
1720861-02	**COC Number:**	---	**Receive Date:**	07/28/2017 12:50
	Project Number:	RRM-Four Season Cleaners	**Sampling Date:**	07/28/2017 11:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	Influent SV-2	**Lab Matrix:**	Air
	Sampled By:	WTI	**Sample Type:**	Vapor or Air

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

Reported: 08/15/2017 9:33
Project: RRM, Inc.
Project Number: Four Season Cleaners
Project Manager: Bill Dugan

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1720861-01 | **Client Sample Name:** RRM-Four Season Cleaners, Influent SV-1, 7/28/2017 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,1-Difluoroethane	ND	ppmv	200	10	EPA-TO-15	ND	A01	1
Acetone	**0.40**	**ppmv**	**0.10**	**0.016**	**EPA-TO-15**	ND	**A01**	1
Acrylonitrile	ND	ppmv	0.10	0.010	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ppmv	0.050	0.0080	EPA-TO-15	ND	A01	1
t-Amyl Methyl ether	ND	ppmv	0.10	0.014	EPA-TO-15	ND	A01	1
Benzene	ND	ppmv	0.050	0.0050	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ppmv	0.10	0.012	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ppmv	0.050	0.0059	EPA-TO-15	ND	A01	1
Bromoform	ND	ppmv	0.050	0.0068	EPA-TO-15	ND	A01	1
Bromomethane	ND	ppmv	0.050	0.014	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ppmv	0.050	0.011	EPA-TO-15	ND	A01	1
t-Butyl alcohol	ND	ppmv	0.10	0.034	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ppmv	0.050	0.0050	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ppmv	0.050	0.0059	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ppmv	0.050	0.0070	EPA-TO-15	ND	A01	1
Chloroethane	ND	ppmv	0.050	0.012	EPA-TO-15	ND	A01	1
Chloroform	ND	ppmv	0.050	0.0050	EPA-TO-15	ND	A01	1
Chloromethane	ND	ppmv	0.050	0.014	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ppmv	0.050	0.0051	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ppmv	0.050	0.0050	EPA-TO-15	ND	A01	1
1,2-Dibromo-3-chloropropane	ND	ppmv	0.050	0.0087	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ppmv	0.050	0.0053	EPA-TO-15	ND	A01	1
Dibromomethane	ND	ppmv	0.050	0.0064	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ppmv	0.050	0.0064	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ppmv	0.050	0.010	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ppmv	0.050	0.0091	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ppmv	0.050	0.0075	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ppmv	0.050	0.0067	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ppmv	0.050	0.0050	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ppmv	0.050	0.0050	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	**0.069**	**ppmv**	**0.050**	**0.0056**	**EPA-TO-15**	ND	**A01**	1
trans-1,2-Dichloroethene	ND	ppmv	0.050	0.0050	EPA-TO-15	ND	A01	1
Total 1,2-Dichloroethene	ND	ppmv	0.10	0.011	EPA-TO-15	ND	A01	1

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

Reported: 08/15/2017 9:33
Project: RRM, Inc.
Project Number: Four Season Cleaners
Project Manager: Bill Dugan

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1720861-01 | **Client Sample Name:** RRM-Four Season Cleaners, Influent SV-1, 7/28/2017 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dichloropropane	ND	ppmv	0.050	0.0063	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ppmv	0.050	0.0050	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ppmv	0.050	0.0065	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ppmv	0.050	0.011	EPA-TO-15	ND	A01	1
Diisopropyl ether	ND	ppmv	0.10	0.011	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ppmv	0.050	0.015	EPA-TO-15	ND	A01	1
Ethanol	ND	ppmv	0.10	0.039	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ppmv	0.050	0.011	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ppmv	0.050	0.0081	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	ND	ppmv	0.050	0.011	EPA-TO-15	ND	A01	1
Ethyl t-butyl ether	ND	ppmv	0.10	0.012	EPA-TO-15	ND	A01	1
n-Heptane	ND	ppmv	0.050	0.0072	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ppmv	0.050	0.023	EPA-TO-15	ND	A01	1
Hexane	ND	ppmv	0.10	0.0055	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ppmv	0.050	0.0082	EPA-TO-15	ND	A01	1
Isooctane	ND	ppmv	0.050	0.0079	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ppmv	0.050	0.019	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ppmv	0.050	0.0064	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	ND	ppmv	0.050	0.014	EPA-TO-15	ND	A01	1
Methyl iodide	ND	ppmv	0.10	0.010	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ppmv	0.050	0.017	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ppmv	0.050	0.0097	EPA-TO-15	ND	A01	1
Naphthalene	ND	ppmv	0.50	0.050	EPA-TO-15	ND	A01	1
Propylene	ND	ppmv	0.050	0.0050	EPA-TO-15	ND	A01	1
Styrene	ND	ppmv	0.050	0.0088	EPA-TO-15	ND	A01	1
1,1,1,2-Tetrachloroethane	ND	ppmv	0.050	0.0075	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ppmv	0.050	0.016	EPA-TO-15	ND	A01	1
Tetrachloroethene	**7.5**	**ppmv**	**0.50**	**0.050**	**EPA-TO-15**	ND	**A01**	2
Tetrahydrofuran	ND	ppmv	0.050	0.014	EPA-TO-15	ND	A01	1
Toluene	ND	ppmv	0.050	0.0050	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ppmv	0.10	0.0078	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ppmv	0.050	0.0051	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ppmv	0.050	0.0050	EPA-TO-15	ND	A01	1

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

Reported: 08/15/2017 9:33
Project: RRM, Inc.
Project Number: Four Season Cleaners
Project Manager: Bill Dugan

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1720861-01 | **Client Sample Name:** RRM-Four Season Cleaners, Influent SV-1, 7/28/2017 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Trichloroethene	**0.33**	**ppmv**	**0.050**	**0.0070**	**EPA-TO-15**	ND	**A01**	1
Trichlorofluoromethane	ND	ppmv	0.050	0.0052	EPA-TO-15	ND	A01	1
1,2,3-Trichloropropane	ND	ppmv	0.050	0.011	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ppmv	0.050	0.0050	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	ND	ppmv	0.050	0.013	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ppmv	0.050	0.030	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ppmv	0.050	0.0088	EPA-TO-15	ND	A01	1
Vinyl bromide	ND	ppmv	0.050	0.013	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ppmv	0.050	0.011	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ppmv	0.050	0.019	EPA-TO-15	ND	A01	1
o-Xylene	ND	ppmv	0.050	0.012	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ppmv	0.10	0.031	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	98.4	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	107	%	70 - 130 (LCL - UCL)		EPA-TO-15			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	07/31/17	07/31/17 12:25	MJB	MS-A2	100	B[G2519
2	EPA-TO-15	07/31/17	07/31/17 13:30	MJB	MS-A2	1000	B[G2519

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

Reported: 08/15/2017 9:33
Project: RRM, Inc.
Project Number: Four Season Cleaners
Project Manager: Bill Dugan

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1720861-02 | **Client Sample Name:** RRM-Four Season Cleaners, Influent SV-2, 7/28/2017 11:50:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,1-Difluoroethane	ND	ppmv	20	1.0	EPA-TO-15	ND	A01	1
Acetone	**0.016**	**ppmv**	**0.010**	**0.0016**	**EPA-TO-15**	ND	**A01**	1
Acrylonitrile	ND	ppmv	0.010	0.0010	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ppmv	0.0050	0.00080	EPA-TO-15	ND	A01	1
t-Amyl Methyl ether	ND	ppmv	0.010	0.0014	EPA-TO-15	ND	A01	1
Benzene	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ppmv	0.010	0.0012	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ppmv	0.0050	0.00059	EPA-TO-15	ND	A01	1
Bromoform	ND	ppmv	0.0050	0.00068	EPA-TO-15	ND	A01	1
Bromomethane	ND	ppmv	0.0050	0.0014	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ppmv	0.0050	0.0011	EPA-TO-15	ND	A01	1
t-Butyl alcohol	ND	ppmv	0.010	0.0034	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ppmv	0.0050	0.00059	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ppmv	0.0050	0.00070	EPA-TO-15	ND	A01	1
Chloroethane	ND	ppmv	0.0050	0.0012	EPA-TO-15	ND	A01	1
Chloroform	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
Chloromethane	ND	ppmv	0.0050	0.0014	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ppmv	0.0050	0.00051	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
1,2-Dibromo-3-chloropropane	ND	ppmv	0.0050	0.00087	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ppmv	0.0050	0.00053	EPA-TO-15	ND	A01	1
Dibromomethane	ND	ppmv	0.0050	0.00064	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ppmv	0.0050	0.00064	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ppmv	0.0050	0.0010	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ppmv	0.0050	0.00091	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ppmv	0.0050	0.00075	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ppmv	0.0050	0.00067	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ppmv	0.0050	0.00056	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
Total 1,2-Dichloroethene	ND	ppmv	0.010	0.0011	EPA-TO-15	ND	A01	1

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Reported: 08/15/2017 9:33
Project: RRM, Inc.
Project Number: Four Season Cleaners
Project Manager: Bill Dugan

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1720861-02 | **Client Sample Name:** RRM-Four Season Cleaners, Influent SV-2, 7/28/2017 11:50:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dichloropropane	ND	ppmv	0.0050	0.00063	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ppmv	0.0050	0.00065	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ppmv	0.0050	0.0011	EPA-TO-15	ND	A01	1
Diisopropyl ether	ND	ppmv	0.010	0.0011	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ppmv	0.0050	0.0015	EPA-TO-15	ND	A01	1
Ethanol	ND	ppmv	0.010	0.0039	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ppmv	0.0050	0.0011	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ppmv	0.0050	0.00081	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	ND	ppmv	0.0050	0.0011	EPA-TO-15	ND	A01	1
Ethyl t-butyl ether	ND	ppmv	0.010	0.0012	EPA-TO-15	ND	A01	1
n-Heptane	ND	ppmv	0.0050	0.00072	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ppmv	0.0050	0.0023	EPA-TO-15	ND	A01	1
Hexane	ND	ppmv	0.010	0.00055	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ppmv	0.0050	0.00082	EPA-TO-15	ND	A01	1
Isooctane	ND	ppmv	0.0050	0.00079	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ppmv	0.0050	0.0019	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ppmv	0.0050	0.00064	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	ND	ppmv	0.0050	0.0014	EPA-TO-15	ND	A01	1
Methyl iodide	ND	ppmv	0.010	0.0010	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ppmv	0.0050	0.0017	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ppmv	0.0050	0.00097	EPA-TO-15	ND	A01	1
Naphthalene	ND	ppmv	0.050	0.0050	EPA-TO-15	ND	A01	1
Propylene	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
Styrene	ND	ppmv	0.0050	0.00088	EPA-TO-15	ND	A01	1
1,1,1,2-Tetrachloroethane	ND	ppmv	0.0050	0.00075	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ppmv	0.0050	0.0016	EPA-TO-15	ND	A01	1
Tetrachloroethene	**2.9**	**ppmv**	**0.050**	**0.0050**	**EPA-TO-15**	ND	**A01**	2
Tetrahydrofuran	ND	ppmv	0.0050	0.0014	EPA-TO-15	ND	A01	1
Toluene	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ppmv	0.010	0.00078	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ppmv	0.0050	0.00051	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1

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Reported: 08/15/2017 9:33
Project: RRM, Inc.
Project Number: Four Season Cleaners
Project Manager: Bill Dugan

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1720861-02 | **Client Sample Name:** RRM-Four Season Cleaners, Influent SV-2, 7/28/2017 11:50:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Trichloroethene	**0.035**	**ppmv**	**0.0050**	**0.00070**	**EPA-TO-15**	ND	**A01**	1
Trichlorofluoromethane	ND	ppmv	0.0050	0.00052	EPA-TO-15	ND	A01	1
1,2,3-Trichloropropane	ND	ppmv	0.0050	0.0011	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ppmv	0.0050	0.00050	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	ND	ppmv	0.0050	0.0013	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ppmv	0.0050	0.0030	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ppmv	0.0050	0.00088	EPA-TO-15	ND	A01	1
Vinyl bromide	ND	ppmv	0.0050	0.0013	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ppmv	0.0050	0.0011	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ppmv	0.0050	0.0019	EPA-TO-15	ND	A01	1
o-Xylene	ND	ppmv	0.0050	0.0012	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ppmv	0.010	0.0031	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	104	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	100	%	70 - 130 (LCL - UCL)		EPA-TO-15			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	07/31/17	07/31/17 12:57	MJB	MS-A2	10	B[G2519
2	EPA-TO-15	07/31/17	07/31/17 14:21	MJB	MS-A2	100	B[G2519

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Project Manager: Bill Dugan

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[G2519						
1,1-Difluoroethane	B[G2519-BLK1	ND	ppmv	2.0	0.10	
Acetone	B[G2519-BLK1	ND	ppmv	0.0010	0.00016	
Acrylonitrile	B[G2519-BLK1	ND	ppmv	0.0010	0.00010	
Allyl chloride	B[G2519-BLK1	ND	ppmv	0.00050	0.000080	
t-Amyl Methyl ether	B[G2519-BLK1	ND	ppmv	0.0010	0.00014	
Benzene	B[G2519-BLK1	ND	ppmv	0.00050	0.000050	
Benzyl chloride	B[G2519-BLK1	ND	ppmv	0.0010	0.00012	
Bromodichloromethane	B[G2519-BLK1	ND	ppmv	0.00050	0.000059	
Bromoform	B[G2519-BLK1	ND	ppmv	0.00050	0.000068	
Bromomethane	B[G2519-BLK1	ND	ppmv	0.00050	0.00014	
1,3-Butadiene	B[G2519-BLK1	ND	ppmv	0.00050	0.00011	
t-Butyl alcohol	B[G2519-BLK1	ND	ppmv	0.0010	0.00034	
Carbon disulfide	B[G2519-BLK1	ND	ppmv	0.00050	0.000050	
Carbon tetrachloride	B[G2519-BLK1	ND	ppmv	0.00050	0.000059	
Chlorobenzene	B[G2519-BLK1	ND	ppmv	0.00050	0.000070	
Chloroethane	B[G2519-BLK1	ND	ppmv	0.00050	0.00012	
Chloroform	B[G2519-BLK1	ND	ppmv	0.00050	0.000050	
Chloromethane	B[G2519-BLK1	ND	ppmv	0.00050	0.00014	
Cyclohexane	B[G2519-BLK1	ND	ppmv	0.00050	0.000051	
Dibromochloromethane	B[G2519-BLK1	ND	ppmv	0.00050	0.000050	
1,2-Dibromo-3-chloropropane	B[G2519-BLK1	ND	ppmv	0.00050	0.000087	
1,2-Dibromoethane	B[G2519-BLK1	ND	ppmv	0.00050	0.000053	
Dibromomethane	B[G2519-BLK1	ND	ppmv	0.00050	0.000064	
1,2-Dichlorobenzene	B[G2519-BLK1	ND	ppmv	0.00050	0.000064	
1,3-Dichlorobenzene	B[G2519-BLK1	ND	ppmv	0.00050	0.00010	
1,4-Dichlorobenzene	B[G2519-BLK1	ND	ppmv	0.00050	0.000091	
Dichlorodifluoromethane	B[G2519-BLK1	ND	ppmv	0.00050	0.000075	
1,1-Dichloroethane	B[G2519-BLK1	ND	ppmv	0.00050	0.000067	
1,2-Dichloroethane	B[G2519-BLK1	ND	ppmv	0.00050	0.000050	
1,1-Dichloroethene	B[G2519-BLK1	ND	ppmv	0.00050	0.000050	
cis-1,2-Dichloroethene	B[G2519-BLK1	ND	ppmv	0.00050	0.000056	
trans-1,2-Dichloroethene	B[G2519-BLK1	ND	ppmv	0.00050	0.000050	
Total 1,2-Dichloroethene	B[G2519-BLK1	ND	ppmv	0.0010	0.00011	
1,2-Dichloropropane	B[G2519-BLK1	ND	ppmv	0.00050	0.000063	

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Volatile Organic Compounds by GC/MS (EPA Method TO-15)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[G2519						
cis-1,3-Dichloropropene	B[G2519-BLK1	ND	ppmv	0.00050	0.000050	
trans-1,3-Dichloropropene	B[G2519-BLK1	ND	ppmv	0.00050	0.000065	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B[G2519-BLK1	ND	ppmv	0.00050	0.00011	
Diisopropyl ether	B[G2519-BLK1	ND	ppmv	0.0010	0.00011	
1,4-Dioxane	B[G2519-BLK1	ND	ppmv	0.00050	0.00015	
Ethanol	B[G2519-BLK1	ND	ppmv	0.0010	0.00039	
Ethyl acetate	B[G2519-BLK1	ND	ppmv	0.00050	0.00011	
Ethylbenzene	B[G2519-BLK1	ND	ppmv	0.00050	0.000081	
1-Ethyl-4-methylbenzene	B[G2519-BLK1	ND	ppmv	0.00050	0.00011	
Ethyl t-butyl ether	B[G2519-BLK1	ND	ppmv	0.0010	0.00012	
n-Heptane	B[G2519-BLK1	ND	ppmv	0.00050	0.000072	
Hexachlorobutadiene	B[G2519-BLK1	ND	ppmv	0.00050	0.00023	
Hexane	B[G2519-BLK1	ND	ppmv	0.0010	0.000055	
2-Hexanone	B[G2519-BLK1	ND	ppmv	0.00050	0.000082	
Isooctane	B[G2519-BLK1	ND	ppmv	0.00050	0.000079	
Isopropyl alcohol	B[G2519-BLK1	ND	ppmv	0.00050	0.00019	
Methylene chloride	B[G2519-BLK1	ND	ppmv	0.00050	0.000064	
Methyl ethyl ketone	B[G2519-BLK1	ND	ppmv	0.00050	0.00014	
Methyl iodide	B[G2519-BLK1	ND	ppmv	0.0010	0.00010	
Methyl isobutyl ketone	B[G2519-BLK1	ND	ppmv	0.00050	0.00017	
Methyl t-butyl ether	B[G2519-BLK1	ND	ppmv	0.00050	0.000097	
Naphthalene	B[G2519-BLK1	ND	ppmv	0.0050	0.00050	
Propylene	B[G2519-BLK1	ND	ppmv	0.00050	0.000050	
Styrene	B[G2519-BLK1	ND	ppmv	0.00050	0.000088	
1,1,1,2-Tetrachloroethane	B[G2519-BLK1	ND	ppmv	0.00050	0.000075	
1,1,2,2-Tetrachloroethane	B[G2519-BLK1	ND	ppmv	0.00050	0.00016	
Tetrachloroethene	B[G2519-BLK1	ND	ppmv	0.00050	0.000050	
Tetrahydrofuran	B[G2519-BLK1	ND	ppmv	0.00050	0.00014	
Toluene	B[G2519-BLK1	ND	ppmv	0.00050	0.000050	
1,2,4-Trichlorobenzene	B[G2519-BLK1	ND	ppmv	0.0010	0.000078	
1,1,1-Trichloroethane	B[G2519-BLK1	ND	ppmv	0.00050	0.000051	
1,1,2-Trichloroethane	B[G2519-BLK1	ND	ppmv	0.00050	0.000050	
Trichloroethene	B[G2519-BLK1	ND	ppmv	0.00050	0.000070	
Trichlorofluoromethane	B[G2519-BLK1	ND	ppmv	0.00050	0.000052	

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Volatile Organic Compounds by GC/MS (EPA Method TO-15)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[G2519						
1,2,3-Trichloropropane	B[G2519-BLK1	ND	ppmv	0.00050	0.00011	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[G2519-BLK1	ND	ppmv	0.00050	0.000050	
1,2,4-Trimethylbenzene	B[G2519-BLK1	ND	ppmv	0.00050	0.00013	
1,3,5-Trimethylbenzene	B[G2519-BLK1	ND	ppmv	0.00050	0.00030	
Vinyl acetate	B[G2519-BLK1	ND	ppmv	0.00050	0.000088	
Vinyl bromide	B[G2519-BLK1	ND	ppmv	0.00050	0.00013	
Vinyl chloride	B[G2519-BLK1	ND	ppmv	0.00050	0.00011	
p- & m-Xylenes	B[G2519-BLK1	ND	ppmv	0.00050	0.00019	
o-Xylene	B[G2519-BLK1	ND	ppmv	0.00050	0.00012	
Total Xylenes	B[G2519-BLK1	ND	ppmv	0.0010	0.00031	
4-Bromofluorobenzene (Surrogate)	**B[G2519-BLK1**	**96.0**	%	**70 - 130 (LCL - UCL)**		

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Volatile Organic Compounds by GC/MS (EPA Method TO-15)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B[G2519										
Benzene	B[G2519-BS1	LCS	0.0043000	0.0050000	ppmv	86.0		70 - 130		
	B[G2519-BSD1	LCSD	0.0044500	0.0050000	ppmv	89.0	3.4	70 - 130	30	
Chloroform	B[G2519-BS1	LCS	0.0045600	0.0050000	ppmv	91.2		70 - 130		
	B[G2519-BSD1	LCSD	0.0046800	0.0050000	ppmv	93.6	2.6	70 - 130	30	
Ethylbenzene	B[G2519-BS1	LCS	0.0050000	0.0050000	ppmv	100		70 - 130		
	B[G2519-BSD1	LCSD	0.0051500	0.0050000	ppmv	103	3.0	70 - 130	30	
Tetrachloroethene	B[G2519-BS1	LCS	0.0051900	0.0050000	ppmv	104		70 - 130		
	B[G2519-BSD1	LCSD	0.0052400	0.0050000	ppmv	105	1.0	70 - 130	30	
Toluene	B[G2519-BS1	LCS	0.0046800	0.0050000	ppmv	93.6		70 - 130		
	B[G2519-BSD1	LCSD	0.0048000	0.0050000	ppmv	96.0	2.5	70 - 130	30	
Trichloroethene	B[G2519-BS1	LCS	0.0056200	0.0050000	ppmv	112		70 - 130		
	B[G2519-BSD1	LCSD	0.0057300	0.0050000	ppmv	115	1.9	70 - 130	30	
Trichlorofluoromethane	B[G2519-BS1	LCS	0.0044300	0.0050000	ppmv	88.6		70 - 130		
	B[G2519-BSD1	LCSD	0.0045300	0.0050000	ppmv	90.6	2.2	70 - 130	30	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[G2519-BS1	LCS	0.0048900	0.0050000	ppmv	97.8		70 - 130		
	B[G2519-BSD1	LCSD	0.0050500	0.0050000	ppmv	101	3.2	70 - 130	30	
p- & m-Xylenes	B[G2519-BS1	LCS	0.010680	0.010000	ppmv	107		70 - 130		
	B[G2519-BSD1	LCSD	0.010580	0.010000	ppmv	106	0.9	70 - 130	30	
o-Xylene	B[G2519-BS1	LCS	0.0056000	0.0050000	ppmv	112		70 - 130		
	B[G2519-BSD1	LCSD	0.0055300	0.0050000	ppmv	111	1.3	70 - 130	30	
Total Xylenes	B[G2519-BS1	LCS	0.016280	0.015000	ppmv	109		70 - 130		
	B[G2519-BSD1	LCSD	0.016110	0.015000	ppmv	107	1.0	70 - 130	30	
4-Bromofluorobenzene (Surrogate)	B[G2519-BS1	LCS	0.0100	0.0100	ppmv	100		70 - 130		
	B[G2519-BSD1	LCSD	0.00989	0.0100	ppmv	98.9	1.6	70 - 130		

Well Test, Inc.
1180 Delmas Ave.
San Jose, CA 95125

Reported: 08/15/2017 9:33
Project: RRM, Inc.
Project Number: Four Season Cleaners
Project Manager: Bill Dugan

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A01	Detection and quantitation limits are raised due to sample dilution.

ATTACHMENT B

HVE System Specifications and Permit Information

Attachment B
Equipment Information
Soil Vapor Extraction and Treatment Event Report (Report #5343-1)
Four Seasons Cleaners, 13778 Doolittle Avenue, San Leandro, California 94577-5532

Mobile Vapor Extraction & Treatment System

BAAQMD Plant #19967; Source #S-3; Positive Displacement Vacuum Pump; 300 CFM – 15" Hg Capacity

Abated by:

BAAQMD Plant #19967; Abatement Device #A-3; Granular Activated Carbon (GAC) Vessels in Series Rated at 400 CFM.

BAAQMD Plant #19967 S-3/A-3 Permit Expiration Date: 12/1/2017