December 2, 2021
Kleinfelder Project No.: 20221076.001A/02-0000

Costco Wholesale Corporation
999 Lake Drive
Issaquah, Washington 98027

Attention: Ms. Kim Katz
Director of Real Estate Development

SUBJECT: Limited Phase II Environmental Site Assessment Report
Proposed Costco Wholesale Warehouse Facility
Former Firestone / Midas Mufflers
5287 Prospect Road
San Jose, Santa Clara County, California 95129
CW20-0355-01 (Westgate West)

Dear Ms. Katz:

This letter report was prepared on behalf of Costco Wholesale Corporation (Costco) to provide and discuss the results of Kleinfelder's Limited Phase II Environmental Site Assessment (ESA), including soil and soil vapor sampling, that was performed between September 17 and October 1, 2021, at the subject property (Site). The Site is located northeast of the intersection of Lawrence Expressway and Prospect Drive at 5287 Prospect Road in San Jose, Santa Clara County, California (see Figure 1). The purpose of the sampling activities was to assess a recognized environmental condition (REC) identified by Kleinfelder's recent Phase I ESA concerning the Westgate West Shopping Mall (of which the Site is a portion) that was performed on Costco's behalf and reported in Kleinfelder's July 15, 2021 draft report.[1]

Kleinfelder understands Costco proposes to lease a portion of the Westgate West Shopping Mall, including the Site, and construct a Costco Warehouse facility on it. The objectives of Kleinfelder's Limited Phase II ESA included assessing the potential for vapor impacts resulting from chemical use at a former Firestone / Midas Mufflers (Midas) facility on the Site.

Subsequent sections of this letter report describe background information and the scope, methodology, and analytical results of the sampling performed by Kleinfelder at the Site along with results evaluations and conclusions. In summary, the ESA involved drilling and sampling soil bores at 14 Site locations, and installing, purging, and sampling dual-nested soil vapor probes in each of the bores. Based on the ESA's results and evaluation of them, Kleinfelder concludes the following:

[1] Kleinfelder, 2021. *Phase I Environmental Site Assessment, Proposed Costco Wholesale Warehouse, Westgate West Shopping Mall, Northeast of Lawrence Boulevard and Prospect Road, San Jose California, CW20-0355-01 San Jose, CA (Westgate West)*. July 15.

24411 Ridge Route Drive, Suite 225, Laguna Hills, CA 92653 **p** | 949.727.4466 **f** | 949.727.9242

- Total petroleum hydrocarbons (TPH) and volatile organic compounds (VOCs) are present in sampled Site soil at concentrations below regulatory agency-issued human health risk-based screening levels for the respective analytes.
- Other than arsenic, metals results for the analyzed soil samples are below regulatory agency-issued human health risk-based screening levels for soil at residential and commercial/industrial properties, and reported arsenic concentrations are thought by Kleinfelder to represent ambient background.
- Based on the soil analytical results, Kleinfelder anticipates soil excavated at the Site containing the analyte concentrations of the sampled soil may be characterized as non-hazardous for the purpose of disposal. However, Kleinfelder recommends that Costco provide the analytical results discussed herein to the disposal facility (or facilities) selected for disposal to verify that it (or they) will meet facility-specific acceptance criteria.
- Reported concentrations of low fraction TPH and most of the VOCs in Kleinfelder's soil vapor samples collected at the Site are below their respective soil vapor screening levels. However, reported tetrachloroethylene (PCE) concentrations in samples collected from six of Kleinfelder's vapor probe locations (KLF-1 through KLF-6) exceed two of PCE's commercial/industrial soil vapor screening levels; reported carbon tetrachloride concentrations in samples collected from the 15.0-foot-deep implants of two of the vapor probes one of its commercial/industrial soil vapor screening levels; and the reported trichloroethylene (TCE) concentration of the sample collected from the 5.0-foot deep implant at one of the probe locations exceeds one of its commercial/industrial soil vapor screening levels. The probes from which the samples containing PCE and TCE concentrations exceeding their respective commercial/industrial soil vapor screening levels were collected are located within the locations of the former service bays of the building formerly occupied by the Firestone / Midas facility. This suggests vapor intrusion into that existing building (as well as a new building constructed at the location) may be a health concern.
- The lateral extent of PCE and TCE concentrations in soil vapor at a depth of 5.0 feet below ground surface (bgs) that exceed commercial/industrial soil vapor screening levels for the respective VOCs appears to have been assessed based on the results of Kleinfelder's soil vapor samples collected from its probes located to the east, south, and west of the former service bays area of the Firestone / Midas facility. However, for carbon tetrachloride, its northward and northwestward extent has not been assessed, and for PCE, its northward extent has not been assessed. Kleinfelder thus recommends installation and sampling of additional soil vapor probes north of the building that contains the former Firestone / Midas facility and farther to the northwest of it. Also, Kleinfelder's soil vapor samples collected from the 5.0-foot-deep implant of Probes KVP-1, KVP-2, and KVP-4 and the 15.0-foot-deep implant of Probe KVP-1 (each which is in the northern or central part of the former automobile service area) contained concentrations of helium (which was used for leak checking during probe purging and sampling) that were more than 5 percent of helium's concentration in the shroud enclosing the sampling train. Kleinfelder therefore recommends resampling of those probe implants, because actual vapor concentrations at the sampled locations and depths are likely higher than those reported in the samples.

BACKGROUND INFORMATION

Based on historical information reviewed by Kleinfelder during the Phase I ESA of the Site it was historically developed with orchards and farm structures prior to development with a Firestone

(circa 1977 to 1985) and Midas Muffler (circa 1985 to 2012). Kleinfelder reviewed plans, dated July 28, 1977, for the Firestone facility that indicated the building's automotive service area included four single-post automobile hoists, to their north a double-post hoist with an in-ground oil-air tank, and farther north an alignment pit near the building's northeastern corner that contained a "dry well." Additionally, a "sediment trap" was depicted outside to the west of the southernmost service bay and a waste oil tank (subsequently removed) was depicted just outside the building's northwest corner.

Midas was listed as having an underground storage tank (UST) that leaked, resulting in a leaking UST (LUST) case. The leak was reportedly discovered during removal of a steel waste oil tank (with reported volumes of 250 gallons and 280 gallons) on July 1, 1996. One soil sample was collected by others from beneath the former UST, and excavated material was stockpiled and sampled. After sampling, the excavation was lined with plastic sheeting, and the stockpiled material was placed back in the excavation. Soil sample analytical results indicated benzene, toluene, ethylbenzene, and xylenes (BTEX), leachable lead, VOCs, and TPH in the diesel carbon range (TPH-d) were not present in the soil sample from beneath the UST at concentrations at or above the laboratory's reporting level for each respective analyte. TPH in the gasoline carbon range (TPH-g) was present in the soil sample collected from beneath the UST at a concentration of 0.055 milligrams per kilogram (mg/kg), along with oil and grease at a concentration of 26 mg/kg. Polychlorinated biphenyls (PCBs), VOCs, and TPH were not present in the stockpile soil sample at concentrations at or above their respective laboratory reporting levels. Based on these results, the LUST case was closed by the Santa Clara Valley Water District (SCVWD) on September 25, 1997.

Converse Consultants (Converse) performed a Phase I ESA and Limited Phase II ESA in 2016 of the Westgate West Shopping Center, including the Site and adjoining areas to its south. Based on Kleinfelder's review, Converse advanced 12 soil bores for its Phase II ESA to approximately 20 feet bgs in the vicinity of the concrete-filled hydraulic hoists in the building formerly occupied by Firestone and Midas. Analytical results of the soil samples indicated a maximum TPH-d concentration of 380 mg/kg and maximum concentration of TPH in the motor oil range (TPH-mo) of 6,410 mg/kg. The TPH concentrations were present in the 10-foot bgs soil samples, and the vertical extent of the TPH was vertically assessed in each bore via results of deeper soil samples. The TPH-d concentrations were reported to not exceed the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) commercial soil Environmental Screening Level (ESL) for TPH-d (1,200 mg/kg), the construction worker soil ESL for TPH-d (1,100 mg/kg), nor the gross contamination ESL for TPH-d (1,000 mg/kg) that were in effect at the time. The oil-range TPH concentration did not exceed the commercial soil ESL for motor oil (180,000 mg/kg) or construction worker soil ESL for motor oil (54,000 mg/kg) but was slightly above the gross contamination ESL for motor oil (5,100 mg/kg). No PCBs were present at concentrations at or above respective laboratory reporting limits. Converse concluded there was no significant contamination at the Midas facility. However, based on Kleinfelder's review, a parts cleaner was apparently used at the Midas facility because one of the inspection reports indicated solvent leakage was observed under a parts cleaner.

Based on the information reviewed, one REC was identified in Kleinfelder's July 15, 2021 draft report, involving the potential for vapor impacts resulting from solvent use at the former Midas and Firestone facility.

After issuance of Kleinfelder's July 15, 2021 draft Phase I ESA report to Costco, Kleinfelder emailed Converse and inquired whether its staff knew whether soil vapor sampling had been

performed at the former Midas facility. On August 6, 2021, Converse forwarded Kleinfelder information pertaining to supplemental soil and soil vapor sampling that Converse performed at the former Midas facility, commenting that the data were not included in its Phase II ESA report because "it was an out-of-scope service, and no further action was taken since all results were below screening levels." The information provided included laboratory reports of analytical results, two tables summarizing the results (one for soil and the other soil vapor), and a plan showing the sampling locations. Kleinfelder's review of the soil vapor sampling results indicated several VOCs were present in sampled soil vapor, including carbon tetrachloride, 1,1-dichloroethane (1,1-DCA), PCE, and 1,1,1-trichloroethane (1,1,1-TCA). The maximum carbon tetrachloride, 1,1-DCA, PCE, and 1,1,1-TCA concentrations reported for the soil vapor samples were 148 micrograms per cubic meter (µg/m^3), 177 µg/m^3, 833 µg/m^3, and 1,220 µg/m^3, respectively. Kleinfelder's comparison of Converse's soil vapor results to current (July 2019) ESLs for "soil gas" (i.e., soil vapor) issued by the SFBRWQCB indicated the carbon tetrachloride concentrations in two of eight vapor samples and PCE concentrations in seven of the samples exceed their current SFBRWQCB commercial/industrial vapor ESLs of 68 µg/m^3 and 67 µg/m^3, respectively.

Given the above findings, Kleinfelder recommended the performance of a Limited Phase II ESA at the Site. The assessment was subsequently performed by Kleinfelder at Costco's request and is discussed in detail in the following sections of this report.

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

Kleinfelder proposed, developed the scope for, and executed the work of the Limited Phase II ESA in response to the Phase I ESA's findings. The various tasks of the Limited Phase II ESA are discussed in the following sections.

Preparatory Activities

On September 14, 2021, Kleinfelder marked the work area and notified Underground Service Alert of Northern California and Nevada (USA North 811) to assist in the location of subsurface public utilities. Kleinfelder's notification of USA North 811 was performed more than 48 hours (and 2 business days) prior to initiation of field activities involving disturbance of soil to depths deeper than 1 foot bgs.

Kleinfelder's geophysical utility locating subcontractor, 1st Call Utility Locating, performed a geophysical survey of the then-proposed subsurface exploration locations in an effort to locate potential subsurface structures, such as underground storage tanks (USTs), clarifiers, buried concrete, metal substructures, buried debris, junk pipes, and other buried objects, that may hinder development activities, and to identify possible buried utilities and subsurface obstructions at the proposed bore locations. The geophysical survey was also performed on September 14, 2021.

Drilling Activities

Kleinfelder's field activities involved advancing 14 soil bores, including bores advanced in areas previously sampled by Converse in September 2016 as well as bores advanced at step-out locations (for lateral extent assessment). Each bore was advanced to approximately 15.5 feet bgs. Kleinfelder's soil sampling at the Site was performed on September 17 and 22, 2021. Bores KVP-1 through KVP-14 were advanced by Kleinfelder's drilling subcontractor, Confluence Environmental (Confluence). The bores were first advanced using a hand auger to approximately

5 feet bgs as an additional subsurface utility clearance step. Each of the bores was then drilled to its terminal depth of approximately 15.5 feet bgs. Bores KVP-1 through KVP-6 and KVP-10 through KVP-14 were advanced using a truck-mounted direct-push Geoprobe® 6600 drilling rig, whereas Bores KVP-7 through KVP-9 were advanced using a limited access direct push drilling rig. Soil was sampled from the bores and screened at minimum from approximate bore depths of 2.5 feet, 5.0 feet, and at approximate 5.0-foot intervals beneath that for the potential presence of total volatile organic vapors using a calibrated photo-ionization detector (PID). For each bore, Kleinfelder selected that bore's soil sample that yielded the maximum PID reading for laboratory analysis. A tabular summary of the soil bore advancement and soil sampling performed as part of the investigation follows:

Bore	Sampling Date	Bore Terminal Depth (feet bgs)	Depth of Sample Selected for Laboratory Analysis (feet bgs)
KVP-1	9/22/2021	15.5	5.0
KVP-2	9/22/2021	15.5	2.5
KVP-3	9/22/2021	15.5	2.5
KVP-4	9/22/2021	15.5	2.5
KVP-5	9/22/2021	15.5	15.0
KVP-6	9/22/2021	15.5	10.0
KVP-7	9/22/2021	15.5	2.5
KVP-8	9/22/2021	15.5	2.5
KVP-9	9/22/2021	15.5	2.5
KVP-10	9/22/2021	15.5	15.0
KVP-11	9/17/2021	15.5	10.0
KVP-12	9/17/2021	15.5	2.5
KVP-13	9/17/2021	15.5	5.0
KVP-14	9/17/2021	15.5	5.0

Sampling equipment, including the hand auger and drill rig's soil sampling equipment, were cleaned before each use to preserve the quality of the samples collected. For soil samples collected from depths less than five feet bgs, soil in the hand auger bucket was sampled. Soil samples from depths of 5 feet bgs and deeper were collected using the drill rig, which was used to drive a steel soil sampler lined with 0.75-inch diameter polyvinyl chloride (PVC) sample sleeves of up to 5-foot length.

Following retrieval of the hand-auger barrel or drive sampler, some of the soil contained within it was screened in the field for the presence of total volatile organic vapors using the calibrated PID, and the reading obtained was logged. Kleinfelder staff, under the supervision of a State of California-registered Professional Geologist, observed the sampled soil in the field, logging it in accordance with Unified Soil Classification System visual-manual methods specified in ASTM International's (ASTM) Designation D 2488, and prepared a field lithologic log of the soil encountered during drilling. Bore logs are provided in Attachment A.

Soil samples were placed into laboratory-provided bottleware. Samples for VOC and TPH-g analyses were collected using a Terra Core® sampler for preservation consistent with United States Environmental Protection Agency (US EPA) Method 5035. After collection, each sample was labeled with a unique sample name and then placed in an ice-chilled cooler. Upon completion

of sampling, the cooler was transported to a California Environmental Laboratory Accreditation Program (ELAP) accredited laboratory for analysis of the samples.

In conjunction with bore advancement, upon completion of drilling and soil sampling of each bore, soil vapor probes were constructed with their vapor implants set at approximately 5.0 feet bgs and 15.0 feet bgs. Soil vapor probe installation and subsequent purging and sampling of the probes were performed pursuant to guidance for performing active soil vapor investigations issued jointly by the California Environmental Protection Agency (Cal/EPA) Department of Toxic Substances Control (DTSC), Los Angeles Regional Water Quality Control Board (LARWQCB), and San Francisco Bay Regional Water Quality Control Board (SFBRWQCB).[2]

To construct the soil vapor probe, after advancement of its bore, a vapor implant attached to the bottom of an appropriate length of 0.25-inch outer diameter (OD) Teflon™ tubing was inserted into the drill rod and lowered into the bore to a depth of approximately 15.0 feet bgs. An appropriate volume of sand to surround the implant and extend from a few inches below it to a few inches above it was then poured into the annulus between the tubing and bore wall, creating a sand pack extending from the bottom of the bore to approximately 14.0 feet bgs. The sand pack was topped with a vertical thickness of approximately 0.5 foot of dry bentonite granules that extended from approximately 14.0 feet to 13.5 feet bgs, followed by Portland cement grout containing approximately 5-percent bentonite by dry weight that extended from approximately 13.5 feet to 6.0 feet bgs. Next, a second vapor implant attached to the bottom of an appropriate length of 0.25-inch OD Teflon™ tubing was lowered into the bore to an approximate depth of 5.0 feet bgs. Sand was then poured into the bore around the implant to create a sand pack extending from approximately 5.5 feet to 4.5 feet bgs, followed by dry bentonite granules extending from approximately 4.0 feet to 4.5 feet bgs. The remainder of the bore was filled with Portland cement grout containing approximately 5-percent bentonite by dry weight. The tubing ends were capped and left extending slightly above the ground surface. Probes KVP-10 through KVP-14 were finished via installation of a steel flush-mount monitoring well vault as they are located outside the Site building within sidewalks, roadways, and/or parking spaces.

The soil vapor probes were purged and sampled no sooner than approximately 48 hours after completion of their installation. Pursuant to the afore-mentioned Cal/EPA joint guidance, before purging each probe, a shut-in test of the sampling train was performed as a leak check. Then, approximately three probe volumes were purged from each soil vapor probe completion prior to sample collection. A given “probe volume” was calculated based on the volume of the vapor probe’s implant and tubing and assumptions of 40-percent sand porosity and 50-percent dry bentonite porosity. For leak checking, during purging and sampling, Confluence exposed the sampling train to helium within a shroud and monitored helium concentrations within the shroud using a hand-held helium analyzer. Purged soil vapor was also monitored in the field for total volatile organic vapors and helium using handheld devices that included a PID, Landtec GEM 2000 portable handheld monitor, and helium analyzer. The helium field monitoring results indicated the minimum helium concentrations maintained in the shroud used for purging ranged from 3.2 percent to 31.1 percent, depending on the sampled probe.

Of note, for the soil vapor sample from the 15-foot bgs implant of Probe KVP-3, its Summa canister’s initial vacuum was -7 inches of mercury (in. Hg), and the canister’s final vacuum was -5 in. Hg. In addition, a sample was not collected from the 15-foot bgs implant of Probe KVP-8 because the Summa canister that was to be used for its sampling did not have a vacuum.

[2] Cal/EPA DTSC, LARWQCB, and SFBRWQCB, 2015. *Advisory, Active Soil Gas Investigations*. July.

The soil vapor probes were left in place pending receipt and review of the laboratory analytical results of the soil vapor samples and to accommodate potential re-sampling of the probes.

Investigation-derived waste (IDW), including excess soil material from the bores, was placed in Department of Transportation-approved 55-gallon drums that were temporarily stored on Site pending profiling of the IDW for off Site disposal at an appropriate licensed disposal facility.

Laboratory Analyses

Soil Sample Analyses

Kleinfelder's soil and soil vapor samples were submitted to its laboratory subcontractor, Pace Analytical (Pace), a nationwide laboratory accredited by California's Environmental Laboratory Accreditation Program, for analysis. The soil samples were analyzed using Pace's standard results turnaround time.

Soil samples selected for laboratory analysis were analyzed for the analytes indicated below using the methods specified:

- TPH, speciated by carbon range, using US EPA Method 8015, with results reported for TPH-g, TPH-d, and TPH-mo.
- The full target analyte list of VOCs, including methyl tertiary-butyl ether (MTBE), using US EPA Method 8260B.
- California Code of Regulations (CCR) Title 22 Metals using US EPA Method 7471A for mercury and US EPA Method 6010B for the remaining 16 CCR Title 22 Metals.

After receipt of the analytical results, each metal's results were compared to its Soluble Threshold Limit Concentration (STLC) to assess whether the sample needed analysis for the soluble metal using the CCR Title 22 Waste Extraction Test (WET), and its results were similarly compared to 20 times the metal's federal Toxicity Characteristic Leaching Procedure (TCLP) value to assess whether the sample needed analysis for the soluble metal using the TCLP. Based on Kleinfelder's review, three samples, KVP-1-5, KVP-7-2.5, and KVP-14-5, were analyzed for soluble chromium using the WET. No metal's result warranted analysis of a sample using the TCLP.

Soil Vapor Sample Analyses

The soil vapor samples were analyzed for the analytes indicated below using the methods specified:

- Helium using the method specified in ASTM International Designation D1946.
- Low (carbon) fraction TPH and the full target analyte list of VOCs, including MTBE, using US EPA Method TO-15.

Given Costco's urgent need for the soil vapor sampling results (which Kleinfelder verbally discussed with Costco upon receipt), the soil vapor samples were analyzed by Pace using a rush turnaround time.

Assessment Results

Soil Sampling Results

Kleinfelder's review of the TPH, VOC, and metals analytical results for the soil samples indicated the following:

- As Table 1 shows, the laboratory indicated TPH-g was not present in the analyzed samples at concentrations at or above its "Reported Detection Limit" (RDL). TPH-d was present in two soil samples: KVP-2-2.5, at 5.23 mg/kg, and KVP-13-5, at 8.12 mg/kg. TPH-mo results were quantified by the laboratory in two separate carbon ranges, C_{22} through C_{32} and C_{32} through C_{40}). The laboratory indicated TPH-mo in the lower carbon range was present in five soil samples, at concentrations ranging from 4.72 mg/kg to 16.6 mg/kg, whereas TPH-mo in the higher carbon range was present in three soil samples, at concentrations ranging from 6.53 mg/kg to 8.28 mg/kg. For the three samples containing TPH-mo in both reported carbon ranges, their total TPH-mo concentrations range from 19.13 mg/kg to 24.26 mg/kg.
- For VOCs, as Table 1 shows, acetone was present in Sample KVP-2-2.5, at a concentration of 0.0936 mg/kg, and in Sample KVP-9-2.5, at a concentration of 0.0880 mg/kg. Sample KVP-2-2.5 in addition contained a 2-butanone concentration of 0.0144 mg/kg. Tetrachloroethylene (PCE) was present in Sample KVP-3-2.5, at a concentration of 0.00147 mg/kg, and in Sample KVP-4-2.5, at a concentration of 0.00164 mg/kg. Finally, 1,1,1-trichloroethane (1,1,1-TCA) was present in Sample KVP-3-2.5, at a concentration of 0.00127 mg/kg, and Sample KVP-9-2.5, at a concentration of 0.00197 mg/kg. Other VOCs were not present in the samples at concentrations at or above their respective RDLs.
- As Table 2 shows, barium, beryllium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, vanadium, and zinc were present at concentrations at or above their respective RDLs in each analyzed soil sample. Additionally, arsenic was present in 13 of the 14 analyzed samples, and cadmium was present in one soil sample at a concentration above its RDL. Antimony, selenium, silver, and thallium were not present in the analyzed samples at a concentration at or above their respective laboratory RDL. The metals present in the samples and their maximum reported concentration (in mg/kg) follow:

Metal	Maximum Concentration (mg/kg)
Arsenic	6.88
Barium	215
Beryllium	0.857
Cadmium	0.544
Chromium	56.7
Cobalt	16.3
Copper	45.3
Lead	22.9
Mercury	0.0785
Molybdenum	1.23

Metal	Maximum Concentration (mg/kg)
Nickel	72.0
Vanadium	58.1
Zinc	81.6

- As Table 2 also shows, based on their total chromium concentrations, three samples, KVP-1-5, KVP-7-2.5, and KVP-14-5, warranted soluble chromium analysis using the WET. The results indicated Samples KVP-1-5 and KVP-7-2.5 contained respective soluble chromium concentrations of 0.145 milligram per liter (mg/L) and 0.176 mg/L, whereas it was not present in Sample KVP-14-5 at a concentration at or above its RDL.

Soil Vapor Sampling Results

First, as noted previously, for the sample from the 15-foot bgs implant of Probe KVP-3, its Summa canister's initial vacuum was -7 inches of mercury (in. Hg), and the canister's final vacuum was -5 in. Hg. In addition, a sample was not collected from the 15-foot bgs implant of Probe KVP-8 because the Summa canister that was to be used for its sampling did not have a vacuum.

As previously mentioned, during the purging and sampling of the soil vapor probes, the sampling train was exposed to helium, which was the leak check gas selected for use. Kleinfelder's review of the helium analytical results for the 27 soil vapor samples indicated it was present in 15 samples at a concentration at or above its RDL but was not present in the remaining 12 samples. The soil vapor sample containing the highest helium concentration, 1.05 percent, was collected from the 5-foot-deep implant of Probe KVP-1.

Kleinfelder's review of the low fraction TPH and VOC analytical results for the soil vapor samples indicated low fraction TPH and 38 VOCs, in total, were present in the samples at concentrations at or above their respective laboratory RDL. VOCs reported to be present in at least some of the samples included BTEX, carbon tetrachloride, PCE, 1,1,1-TCA, and TCE.

The helium, low fraction TPH, and VOC analytical results are summarized in Table 3.

Results Evaluations

Soil Sampling Results Evaluation

To evaluate the concentrations of each analyte that the laboratory reported was present in Kleinfelder's soil samples from the Site, its results were compared to screening levels consisting of the following: its respective SFBRWQCB current Environmental Screening Levels[3] (ESLs) for soil (specifically using the analyte's Tier I [i.e., most conservative] ESL along with its ESL for residential soil and less-conservative ESL for commercial/industrial soil); its current DTSC-recommended screening levels[4] (DTSC-SLs) for residential soil and commercial/industrial soil that were developed by the DTSC's Human and Ecological Risk Office (HERO); and its

[3] SFBRWQCB, 2019. *Environmental Screening Levels Workbook and Summary Tables 2019 (Rev. 2)*. July.
[4] DTSC HERO, 2020. *Human Health Risk Assessment (HHRA) Note, HERO HHRA Note Number: 3, DTSC-modified Screening Levels (DTSC-SLs), release date: June 2020*. June.

current US EPA Regional Screening Levels[5] (RSLs) for residential soil and industrial soil. Also, each metal's analytical results were compared to its CCR Title 22 Total Threshold Limit Concentration (TTLC) to assess whether excavated soil containing it would be characterized as California-hazardous waste. Finally, Kleinfelder compared the soluble chromium results for the three samples analyzed using the WET to chromium's STLC of 5.0 mg/L, to assess whether a result exceeds the STLC and is characteristic of a California-hazardous waste. No metal's result exceeded 20 times its TCLP value, so performance of TCLP analyses was not required. The screening levels used by Kleinfelder for evaluation of the soil sampling analytical results are included in Tables 1 and 2, as applicable.

The soil sampling results comparisons revealed the following:

- As shown in Table 1, reported TPH-d and TPH-mo concentrations in the samples are below their respective Tier I, residential, and commercial/industrial screening levels (whereas TPH-g was not present in the samples at concentrations at or above its RDL).
- As also shown in Table 1, reported VOC concentrations in the samples are below their respective Tier I, residential, and commercial/industrial screening levels for soil.
- As shown in Table 2, except for arsenic and vanadium, reported metal concentrations in the samples are below their respective Tier I, residential, and commercial/industrial screening levels for soil. Each analyzed soil sample contained a vanadium concentration that exceeds its 18-mg/kg Tier I ESL, which is based on vanadium's terrestrial habitat ESL for soil. In Kleinfelder's opinion, terrestrial habitat ESLs are not applicable to the Site because it is currently fully developed. Each analyzed soil sample's vanadium concentration is notably below its screening levels for residential and industrial soil. Arsenic was reported to be present in 13 of the 14 analyzed soil samples, at concentrations ranging from 2.46 mg/kg to 6.88 mg/kg that exceed arsenic's Tier I, residential, and commercial/industrial ESLs for soil, its residential and commercial/industrial DTSC-SLs for soil, and its residential RSL for soil, with concentrations of all but two samples also exceeding arsenic's 3.0-mg/kg RSL for industrial soil. The SFBRWQCB has acknowledged that arsenic concentrations in San Francisco Bay region soils typically exceed risk-based screening levels by one or more orders of magnitude, in many instances due to naturally occurring background concentrations.[6] The author of a published study of background concentrations of arsenic in undifferentiated flatland soils of the urbanized San Francisco Bay region proposed an upper estimate for background arsenic (99th percentile) of 11 mg/kg,[7] which the SFBRWQCB has indicated may be used as an upper estimate for background arsenic concentrations as appropriate based on study parameters. The measured arsenic concentrations in the Site's soil samples are considerably below 11 mg/kg so are thought by Kleinfelder to represent ambient background.
- Kleinfelder's comparisons of the metals analytical results to hazardous waste characterization thresholds revealed that waste soil represented by Kleinfelder's soil samples would be characterized as no-hazardous waste.

[5] US EPA, 2021. *Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1) May 2021*. May.
[6] SFBRWQCB, 2019. *User's Guide: Derivation and Application of Environmental Screening Levels (ESLs), Interim Final 2019 (Revision 1)*.
[7] Duvergé, D.J., 2011. *Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region*. Master's thesis, San Francisco State University.

Soil Vapor Sampling Results Evaluation

First, as previously noted, Kleinfelder's review of the laboratory's helium results for the 27 soil vapor samples indicated it was present in 15 of the samples, at a maximum concentration of 1.05 percent. As mentioned previously, helium concentrations within the shroud enclosing the sampling train during purging and sampling of Kleinfelder's soil vapor probes at the Site were monitored during probe purging and sampling. Helium field monitoring results indicated minimum helium concentrations maintained in the shroud used for purging ranged from 3.2 percent to 31.1 percent depending on the sampled probe. Pursuant to Appendix C of the afore-mentioned Cal/EPA joint guidance for performing active soil vapor investigations, the calculation of a leak is based on the ratio of the tracer's concentration in the sample to that in the shroud, providing the tracer is continuously infused during sampling (i.e., its concentration in the shroud remains constant during purging and sampling), and if the tracer concentration in the sample is greater than or equal to 5 percent of the tracer's concentration in the shroud, "corrective action is necessary to either remedy the leak or relocate the probe prior to collecting a soil gas sample." As shown in Table 4, Kleinfelder's calculations indicate helium concentrations in the samples from the 5.0-foot-deep implants of Probes KVP-1, KVP-2, and KVP-4 and in the sample from the 15.0-foot-deep implant of Probes KVP-1 are greater than or equal to 5 percent of the shroud's helium concentration. The low fraction TPH and VOC concentrations reported for these samples therefore are suspect and are likely somewhat lower than actual VOC concentrations in soil vapor at those locations and depths.

For low fraction TPH and VOCs present in Kleinfelder's soil vapor samples, as with the soil sampling results, reported concentrations of each analyte indicated by the laboratory to be present in one or more of the samples were compared to various soil vapor screening levels for the analyte, including its current SFBRWQCB ESLs for "soil gas" (using its Tier I [i.e., most conservative] ESL along with its ESL for residential soil vapor and less-conservative ESL for commercial/industrial soil vapor). Unlike the SFBRWQCB, the DTSC and US EPA currently have no soil vapor screening levels available for direct comparison with soil vapor sampling analytical results. However, to address attenuation of soil vapor to indoor air, the DTSC HERO's previously-cited current (June 2020) guidance for use of its DTSC-SLs recommends use of attenuation factors (AFs) that are described in the DTSC's previously-cited 2011 subsurface vapor intrusion guidance, along with the US EPA's default AF of 0.03 for "near-source" exterior soil vapor.[8] To derive soil vapor screening values, Kleinfelder therefore divided the DTSC HERO's current DTSC-SLs for residential air and commercial/industrial air by the DTSC's recommended AF of 0.001 for evaluation of soil vapor beneath an existing commercial/industrial building, and divided the US EPA's RSLs for residential air and industrial air by the US EPA's default AF of 0.03. The screening levels used by Kleinfelder for evaluation of the soil vapor sampling results are included in Table 3.

The soil vapor sampling results comparisons revealed the following:

- As Table 3 shows, reported low fraction TPH concentrations in the samples are below its Tier I, residential, and commercial/industrial screening levels for soil vapor.
- Reported carbon tetrachloride concentrations in 11 soil vapor samples exceed its Tier I and residential ESLs for soil vapor, and the concentrations of the samples from the 15.0-foot-deep implants of Probes KVP-1 and KVP-14 also exceed its

[8] US EPA, 2015. https://www.epa.gov/sites/production/files/2015-09/documents/oswer-vapor-intrusion-technical-guide-final.pdf.

commercial/industrial ESL for soil vapor, although all samples' results are below its screening levels based on its air RSLs (with it having no current DTSC-SLs for air).

- Reported PCE concentrations in 12 soil vapor samples exceed its Tier I and residential ESLs for soil vapor, and its soil vapor screening level based on its residential air DTSC-SL and the 0.03 AF. In addition, PCE concentrations of nine samples exceed its commercial/industrial ESL for soil vapor and its soil vapor screening level based on its commercial/industrial air DTSC-SL and the 0.03 AF. Those nine samples were collected from the 5.0-foot deep and 15.0-foot-deep implants of Probes KVP-4 through KVP-6 and the 5.0-foot-deep implants of Probes KVP-1 through KVP-3.
- The reported TCE concentration of the sample from the 5.0-foot-deep implant of Probe KVP-3 exceeds its commercial/industrial ESL for soil vapor and its soil vapor screening level based on its commercial/industrial air DTSC SL and the 0.03 AF.
- Reported concentrations of the remaining analyzed VOCs are below their respective screening levels.

CONCLUSIONS

Based on Kleinfelder's field observations and evaluations of the analytical results of the samples collected at the Site during the Limited Phase II ESA, the following conclusions are provided:

- TPH and volatile organic compounds (VOCs) were present in sampled Site soil at concentrations below regulatory agency-issued human health risk-based screening levels for the respective analytes.
- Other than arsenic, metals results for the analyzed soil samples are below regulatory agency-issued human health risk-based screening levels for soil at residential and commercial/industrial properties, and reported arsenic concentrations are thought by Kleinfelder to represent ambient background.
- Based on the soil analytical results, Kleinfelder anticipates soil excavated at the Site containing the analyte concentrations of the sampled soil may be characterized as non-hazardous for the purpose of disposal. However, Kleinfelder recommends that Costco provide the analytical results discussed herein to the disposal facility (or facilities) selected for disposal to verify that it (or they) will meet facility-specific acceptance criteria.
- Reported concentrations of low fraction TPH and most of the VOCs in Kleinfelder's soil vapor samples collected at the Site are below their respective soil vapor screening levels. However, reported PCE concentrations in samples collected from six of Kleinfelder's vapor probe locations (KLF-1 through KLF-6) exceed two of PCE's commercial/industrial soil vapor screening levels; reported carbon tetrachloride concentrations in samples collected from the 15.0-foot-deep implants of two of the vapor probes exceed one of its commercial/industrial soil vapor screening levels; and the reported TCE concentration of the sample collected from the 5.0-foot deep implant at one of the probe locations exceeds one of its commercial/industrial soil vapor screening levels. The probes from which the samples containing PCE and TCE concentrations exceeding their respective commercial/industrial soil vapor screening levels were collected are located within the locations of the former service bays of the building formerly occupied by the Firestone / Midas facility. This suggests vapor intrusion into that existing building (as well as a new building constructed at the location) may be a health concern.

- The lateral extent of PCE and TCE concentrations in soil vapor at a depth of 5.0 feet bgs that exceed commercial/industrial soil vapor screening levels for the respective VOCs appears to have been assessed based on the results of Kleinfelder's soil vapor samples collected from its probes located to the east, south, and west of the former service bays area of the Firestone / Midas facility. However, for carbon tetrachloride, its northward and northwestward extent has not been assessed, and for PCE, its northward extent has not been assessed. Kleinfelder thus recommends installation and sampling of additional soil vapor probes north of the building that contains the former Firestone / Midas facility and farther northwest of it. Also, the soil vapor samples collected from the 5.0-foot-deep implant of Probes KVP-1, KVP-2, and KVP-4 and the 15.0-foot-deep implant of Probe KVP-1 (each which is in the northern or central part of the former automobile service area) contained helium concentrations that were more than 5 percent of helium's concentration in the shroud enclosing the sampling train. Kleinfelder therefore recommends resampling of those probe implants, because actual vapor concentrations at the sampled locations and depths are likely higher than those reported in the samples.

LIMITATIONS

This report was prepared in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions, and at the date the services were provided. Kleinfelder's conclusions, opinions, and recommendations are based on a limited number of observations and data. It is possible that conditions may vary between or beyond the data evaluated. Kleinfelder makes no other representation, guarantee, or warranty, expressed or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

This report may be used only by Costco and only for the purposes stated for this specific engagement within a reasonable time from its issuance, but in no event later than 2 years from the report's date.

The scope of services described here is not intended to be all inclusive, to identify all potential concerns, or to eliminate the possibility of other environmental problems. Within current technology, no level of assessment can show conclusively that a property or its structures are completely free of hazardous substances. Therefore, Kleinfelder cannot offer a certification that the property is free of environmental liability. Kleinfelder will assume no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury which results from pre-existing hazardous materials being encountered or present on the Site, or from the discovery of such hazardous materials.

Kleinfelder offers various levels of investigative and engineering services to suit the varying needs of different clients. It should be recognized that definition and evaluation of geologic and environmental conditions comprise a difficult and inexact science. Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the subsurface conditions present due to the limitations of data from field studies. Although risk will never be eliminated, more-detailed and extensive studies yield more information, which may help understand and manage the level of risk. Since detailed study and analysis involves greater expense, Kleinfelder's clients participate in determining levels of service that provide adequate information for their purposes at acceptable levels of risk. More extensive studies, including subsurface studies or field tests, should be performed to reduce uncertainties. Acceptance of this

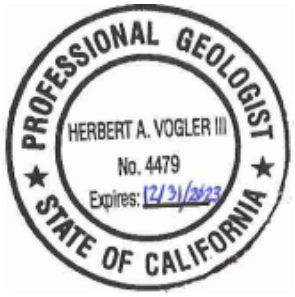
report will indicate that Costco has reviewed the document and determined that it does not need or want a greater level of service than provided.

CLOSING REMARKS

If you have questions or comments regarding this report, please do not hesitate to contact Paolo Dizon, Kleinfelder's Project Manager, at (949) 727-4466.

Sincerely,

KLEINFELDER, INC.



Victoria A. Golston
Environmental Scientist

Herbert (Bert) A. Vogler III, PG
Principal Hydrogeologist

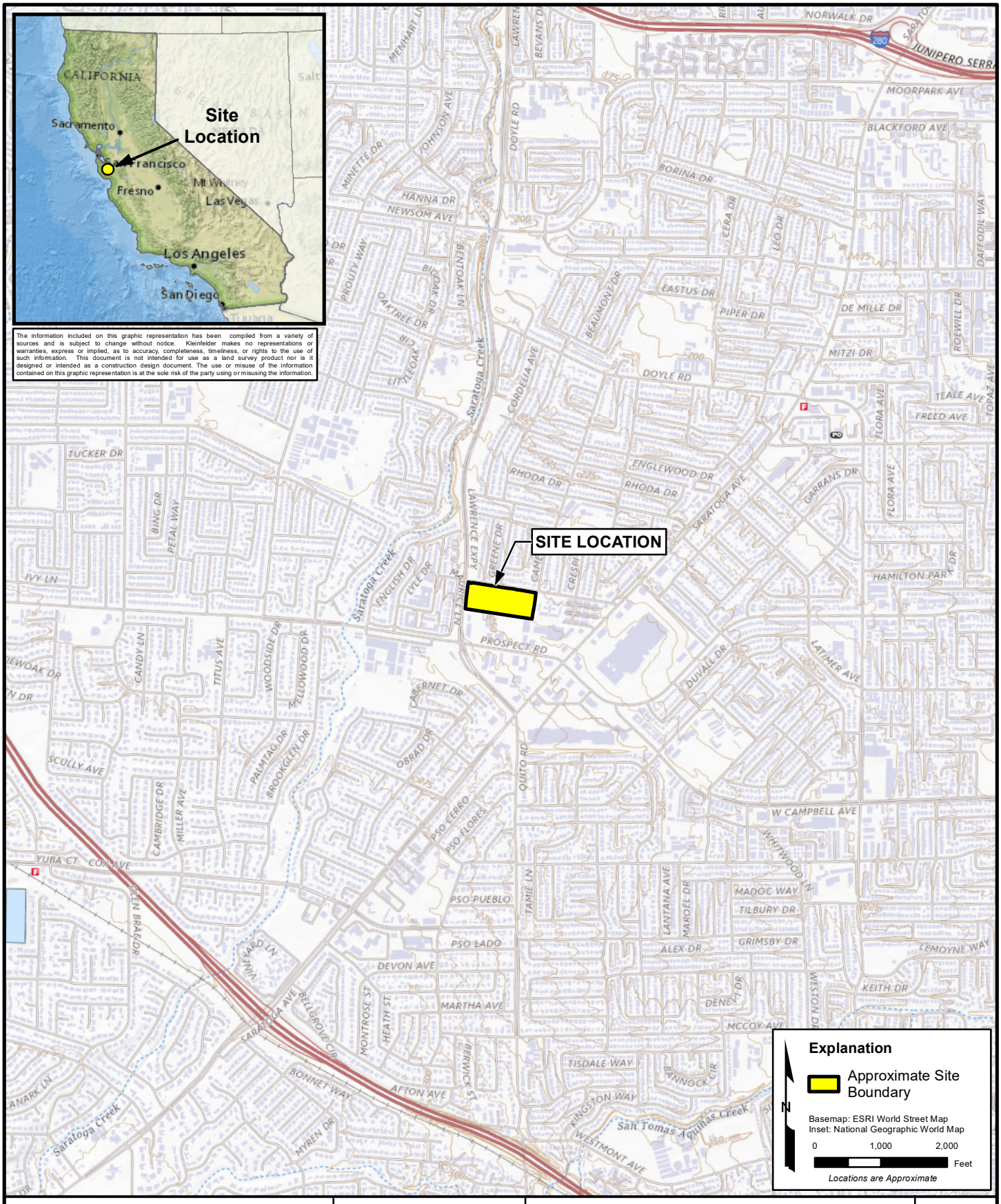
cc: Andy Franks, Kleinfelder
Paolo Dizon, Kleinfelder

Attachments:
Figures
- Figure 1 – Site Vicinity Map
- Figure 2 – Sample Location Map
- Figure 3 – Soil Vapor Sampling Results

Tables
- Table 1 – Soil TPH and VOC Analytical Results
- Table 2 – Soil Metals Analytical Results
- Table 3 – Soil Vapor Analytical Results
- Table 4 – Calculated Probe Leakage Amounts

Attachment A – Bore Logs
Attachment B – Analytical Laboratory Reports

FIGURES



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LAGUNA HILLS, CA

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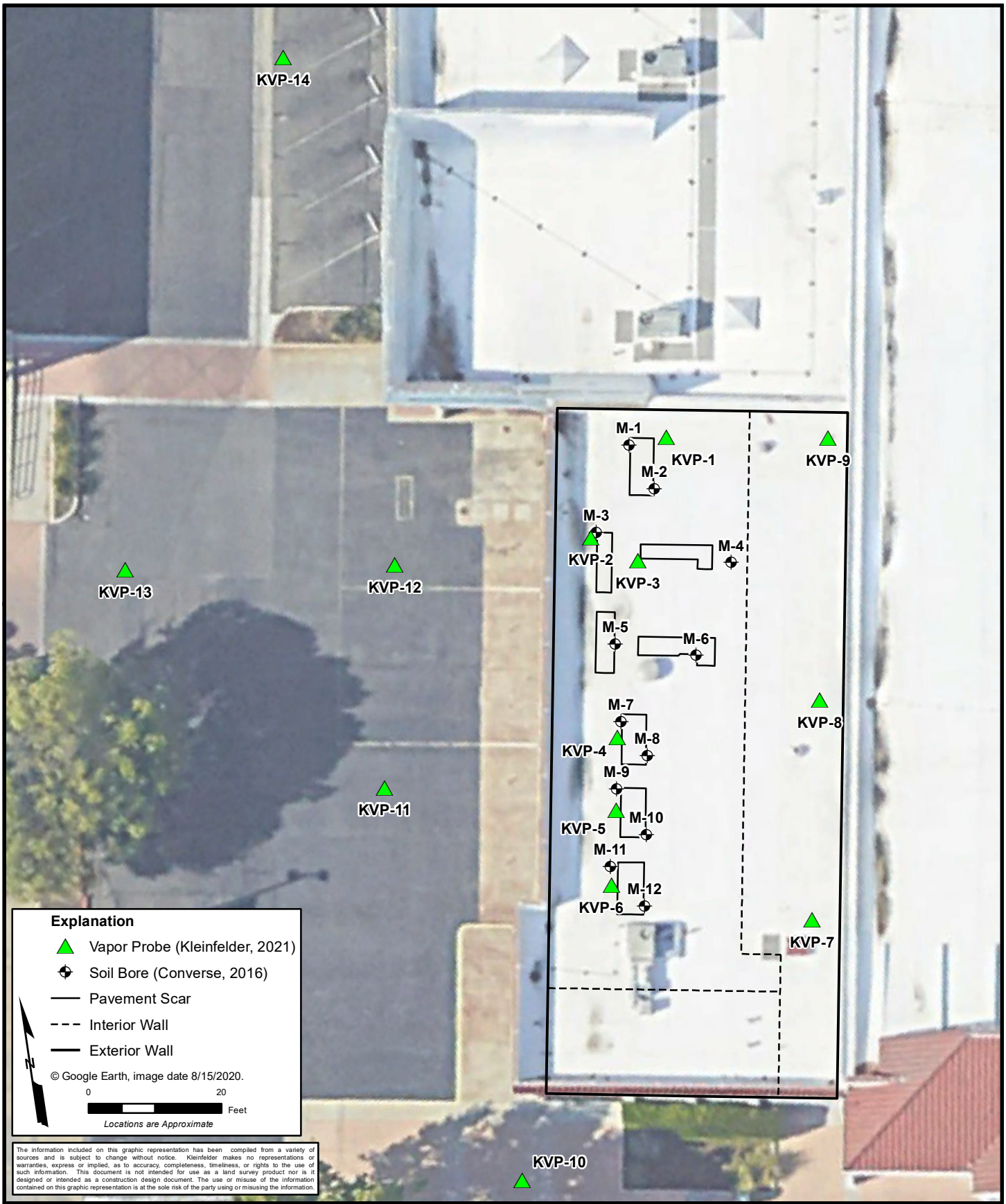
PROJECT:	20221076
DRAWN:	OCT 2021
DRAWN BY:	KFH
CHECKED BY:	LDP
FILE NAME:	Ph2_Fig1.mxd

SITE LOCATION MAP

PROPOSED COSTCO WHOLESALE WAREHOUSE
WESTGATE WEST SHOPPING MALL
FORMER FIRESTONE / MIDAS MUFFLER
5287 PROSPECT RD, SAN JOSE, CA, 95129
CW20-0355-01 SAN JOSE, CA (WESTGATE WEST)

FIGURE

1



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LAGUNA HILLS, CA

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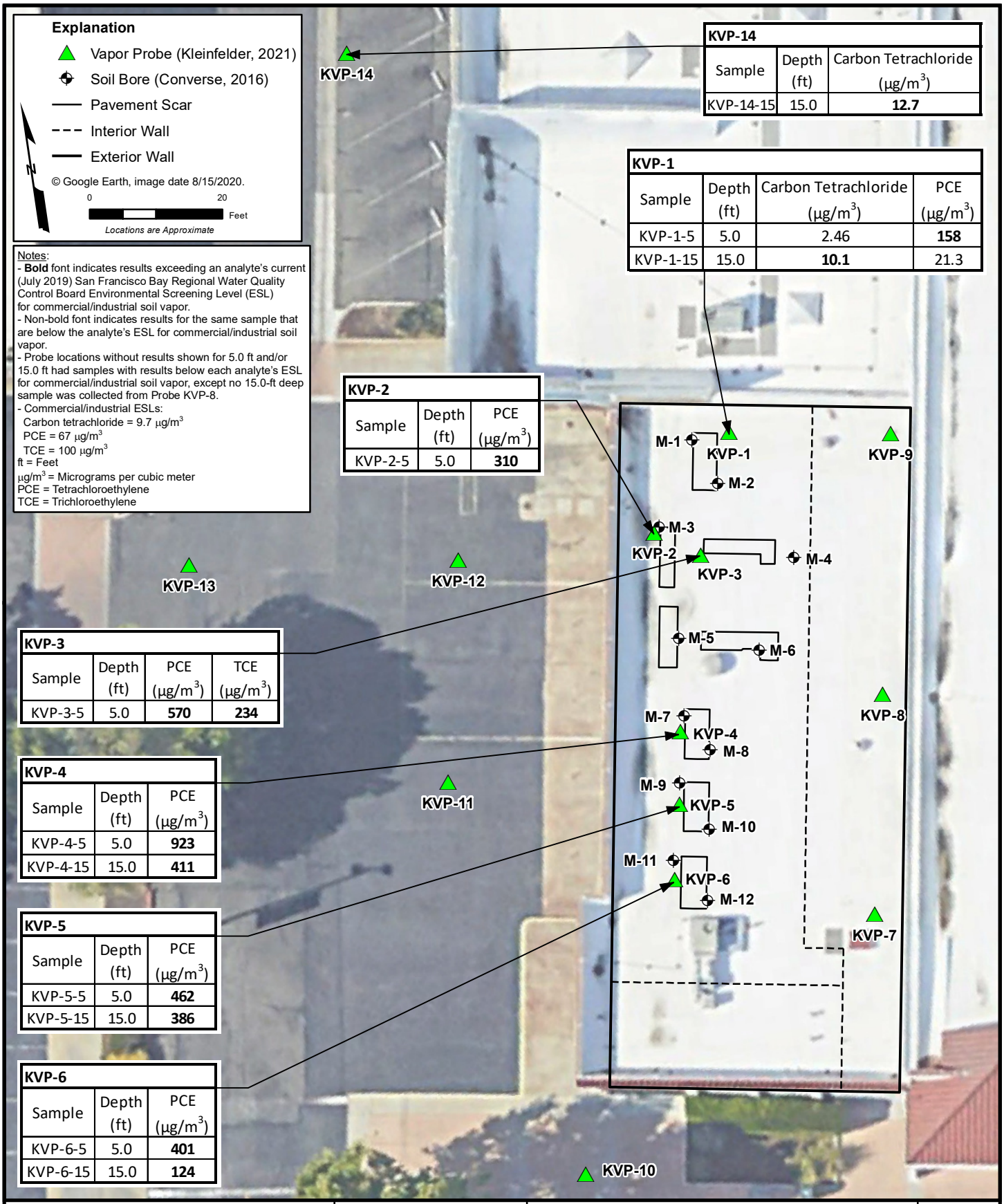
PROJECT:	20221076
DRAWN:	OCT 2021
DRAWN BY:	KFH
CHECKED BY:	VAG
FILE NAME:	Ph2_Fig2.mxd

EXPLORATION LOCATION MAP

PROPOSED COSTCO WHOLESALE WAREHOUSE
WESTGATE WEST SHOPPING MALL
FORMER FIRESTONE / MIDAS MUFFLER
5287 PROSPECT RD, SAN JOSE, CA, 95129
CW20-0355-01 SAN JOSE, CA (WESTGATE WEST)

FIGURE

2



KVP-14

Sample	Depth (ft)	Carbon Tetrachloride (µg/m³)
KVP-14-15	15.0	**12.7**

KVP-1

Sample	Depth (ft)	Carbon Tetrachloride (µg/m³)	PCE (µg/m³)
KVP-1-5	5.0	2.46	**158**
KVP-1-15	15.0	**10.1**	21.3

KVP-2

Sample	Depth (ft)	PCE (µg/m³)
KVP-2-5	5.0	**310**

KVP-3

Sample	Depth (ft)	PCE (µg/m³)	TCE (µg/m³)
KVP-3-5	5.0	**570**	**234**

KVP-4

Sample	Depth (ft)	PCE (µg/m³)
KVP-4-5	5.0	**923**
KVP-4-15	15.0	**411**

KVP-5

Sample	Depth (ft)	PCE (µg/m³)
KVP-5-5	5.0	**462**
KVP-5-15	15.0	**386**

KVP-6

Sample	Depth (ft)	PCE (µg/m³)
KVP-6-5	5.0	**401**
KVP-6-15	15.0	**124**

Notes:
- **Bold** font indicates results exceeding an analyte's current (July 2019) San Francisco Bay Regional Water Quality Control Board Environmental Screening Level (ESL) for commercial/industrial soil vapor.
- Non-bold font indicates results for the same sample that are below the analyte's ESL for commercial/industrial soil vapor.
- Probe locations without results shown for 5.0 ft and/or 15.0 ft had samples with results below each analyte's ESL for commercial/industrial soil vapor, except no 15.0-ft deep sample was collected from Probe KVP-8.
- Commercial/industrial ESLs:
  Carbon tetrachloride = 9.7 µg/m³
  PCE = 67 µg/m³
  TCE = 100 µg/m³
ft = Feet
µg/m³ = Micrograms per cubic meter
PCE = Tetrachloroethylene
TCE = Trichloroethylene

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PROJECT:	20221076
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FILE NAME:	Ph2_Fig3.mxd

2021 SOIL VAPOR SAMPLING RESULTS EXCEEDING COMMERCIAL/INDUSTRIAL SCREENING LEVELS

PROPOSED COSTCO WHOLESALE WAREHOUSE
WESTGATE WEST SHOPPING MALL
FORMER FIRESTONE / MIDAS MUFFLER
5287 PROSPECT RD, SAN JOSE, CA, 95129
CW20-0355-01 SAN JOSE, CA (WESTGATE WEST)

FIGURE
3

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LAGUNA HILLS, CA

TABLES

TABLE 1
SOIL TPH AND VOC ANALYTICAL RESULTS
Proposed Costco Wholesale Warehouse Facility
Former Firestone / Midas Mufflers
5287 Prospect Road
San Jose, Santa Clara County, California
CW20-0355-01 (Westgate West)

				TPH				VOCs				
Bore	Sample	Depth (feet bgs)	Date Sampled	TPH-g (C_5 - C_{12}) (mg/kg) 8015	TPH-d (C_{12} - C_{22}) (mg/kg) 8015	TPH-mo (C_{22} - C_{32}) (mg/kg) 8015	TPH-mo (C_{32} - C_{40}) (mg/kg) 8015	Acetone (mg/kg) 8260B	2-Butanone (mg/kg) 8260B	PCE (mg/kg) 8260B	1,1,1-TCA (mg/kg) 8260B	Other VOCs (mg/kg) 8260B
KVP-1	KVP-1-5	5.0	9/22/2021	ND<3.55	ND<4.70	ND<4.70	ND<4.70	ND<0.0587	ND<0.0117	ND<0.00117	ND<0.00117	ND<0.00117 - ND<0.117
KVP-2	KVP-2-2.5	2.5	9/22/2021	ND<2.95	5.23	16.6	7.66	0.0936	0.0144	ND<0.00108	ND<0.00108	ND<0.00108 - ND<0.108
KVP-3	KVP-3-2.5	2.5	9/22/2021	ND<3.21	ND<4.49	4.72	ND<4.49	ND<0.0562	ND<0.0112	0.00147	0.00127	ND<0.00112 - ND<0.112
KVP-4	KVP-4-2.5	2.5	9/22/2021	ND<3.26	ND<4.52	5.30	ND<4.52	ND<0.0565	ND<0.0113	0.00164	ND<0.00113	ND<0.00113 - ND<0.113
KVP-5	KVP-5-15	15.0	9/22/2021	ND<3.12	ND<4.41	ND<4.41	ND<4.41	ND<0.0552	ND<0.0110	ND<0.00110	ND<0.00110	ND<0.00110 - ND<0.110
KVP-6	KVP-6-10	10.0	9/22/2021	ND<3.03	ND<4.37	ND<4.37	ND<4.37	ND<0.0546	ND<0.0109	ND<0.00109	ND<0.00109	ND<0.00109 - ND<0.109
KVP-7	KVP-7-2.5	2.5	9/22/2021	ND<3.36	ND<4.59	ND<4.59	ND<4.59	ND<0.0574	ND<0.0115	ND<0.00115	ND<0.00115	ND<0.00115 - ND<0.115
KVP-8	KVP-8-2.5	2.5	9/22/2021	ND<3.36	ND<4.56	ND<4.56	ND<4.56	ND<0.0570	ND<0.0114	ND<0.00114	ND<0.00114	ND<0.00114 - ND<0.114
KVP-9	KVP-9-2.5	2.5	9/22/2021	ND<3.24	ND<4.53	11.8	8.28	0.0880	ND<0.0113	ND<0.00113	0.00197	ND<0.00113 - ND<0.113
KVP-10	KVP-10-15	15.0	9/22/2021	ND<2.84	ND<4.25	ND<4.25	ND<4.25	ND<0.0531	ND<0.0106	ND<0.00106	ND<0.00106	ND<0.00106 - ND<0.106
KVP-11	KVP-11-10	10.0	9/17/2021	ND<2.84	ND<4.25	ND<4.25	ND<4.25	ND<0.0537	ND<0.0107	ND<0.00107	ND<0.00107	ND<0.00107 - ND<0.107
KVP-12	KVP-12-2.5	2.5	9/17/2021	ND<3.45	ND<4.63	ND<4.63	ND<4.63	ND<0.0578	ND<0.0116	ND<0.00116	ND<0.00116	ND<0.00116 - ND<0.116
KVP-13	KVP-13-5	5.0	9/17/2021	ND<3.03	8.12	12.6	6.53	ND<0.0546	ND<0.0109	ND<0.00109	ND<0.00109	ND<0.00109 - ND<0.109
KVP-14	KVP-14-5	5.0	9/17/2021	ND<3.42	ND<4.63	ND<4.63	ND<4.63	ND<0.0578	ND<0.0116	ND<0.00116	ND<0.00116	ND<0.00116 - ND<0.116
ESL – Tier 1				100	260	260		0.92	6.1	0.080	7.0	Vary or NV
ESL – Residential				430	260	260		61,000	27,000	0.59	1,700	Vary or NV
ESL – Commercial/Industrial				2,000	1,200	1,200		670,000	200,000	2.7	7,300	Vary or NV
DTSC-SL – Residential				NV / NV	NV / NV	NV / NV		NV	NV	0.59	1,700	Vary or NV
DTSC-SL – Commercial/Industrial				NV / NV	NV / 500	NV / 18,000		NV	NV	2.7	7,200	Vary or NV
RSL – Residential				251	96	11,519		61,000	27,000	24	8,100	Vary or NV
RSL – Commercial/Industrial				1,191	460	145,028		670,000	190,000	100	36,000	Vary or NV

Notes:

TPH	Total petroleum hydrocarbons.
TPH-g	Gasoline-range TPH.
TPH-d	Diesel-range TPH.
TPH-mo	Motor oil-range TPH.
$C_{\#}$ - $C_{\#}$	Analyzed TPH carbon range.
VOCs	Volatile organic compounds.
mg/kg	Milligrams per kilogram.
bgs	Below ground surface.
8015 / 8260B	United States Environmental Protection Agency (US EPA) analytical method number.
ND	Not present at a concentration at or above the laboratory's "Reported Detection Limit" that follows the "less than" (<) symbol.
ESL	San Francisco Bay Regional Water Quality Control Board Environmental Screening Level for soil, January 2019 (Rev. 1).
NV	Analyte has no published value.
DTSC-SL	Modified soil screening level from California Environmental Protection Agency Department of Toxic Substances Control (DTSC) Office of Human and Ecological Risk (HERO) *Human Health Risk Assessment (HHRA) Note Number 3, DTSC-modified Screening Levels (DTSC-SLs)* . Release date: June 2020. DTSC-SL values shown for TPH-g, TPH-d, and TPH-mo are Aliphatic / Aromatic Low, Aliphatic / Aromatic Medium, and Aliphatic / Aromatic High, respectively.
RSL	US EPA Regional Screening Level for soil, May 2021. TPH-g RSLs are based on TPH Aliphatic and Aromatic Low RSLs, TPH-d RSLs are based on TPH Aliphatic and Aromatic Medium RSLs, and TPH-mo RSLs are based on TPH Aliphatic and Aromatic High RSLs. The two RSL values for each of the three TPH fractions were used in the following equation: $RSL_{TPH\ Total} = 1/((0.80/RSL_{TPH\ Aliphatic}) + (0.20/RSL_{TPH\ Aromatic}))$.

TABLE 2
SOIL METALS ANALYTICAL RESULTS
Proposed Costco Wholesale Warehouse Facility
Former Firestone / Midas Mufflers
5287 Prospect Road
San Jose, Santa Clara County, California
CW20-0355-01 (Westgate West)

Bore	Sample	Depth (feet bgs)	Date Sampled	Antimony (mg/kg) 6010B	Arsenic (mg/kg) 6010B	Barium (mg/kg) 6010B	Beryllium (mg/kg) 6010B	Cadmium (mg/kg) 6010B	Chromium (mg/kg) 6010B	STLC Chromium (mg/L) WET / 6010B	Cobalt (mg/kg) 6010B	Copper (mg/kg) 6010B	Lead (mg/kg) 6010B	Mercury (mg/kg) 7471A	Molybdenum (mg/kg) 6010B	Nickel (mg/kg) 6010B	Selenium (mg/kg) 6010B	Silver (mg/kg) 6010B	Thallium (mg/kg) 6010B	Vanadium (mg/kg) 6010B	Zinc (mg/kg) 6010B
KVP-1	KVP-1-5	5.0	9/22/2021	ND<2.35	ND<2.35	202	0.687	ND<0.587	56.7*	0.145	14.2	37.2	9.70	0.0747	0.859	70.3	ND<2.35	ND<1.17	ND<2.35	56.7	74.6
KVP-2	KVP-2-2.5	2.5	9/22/2021	ND<2.17	**3.01**	189	0.590	0.544	40.3	NA	12.2	38.4	22.9	0.0676	0.622	48.8	ND<2.17	ND<1.08	ND<2.17	49.7	81.6
KVP-3	KVP-3-2.5	2.5	9/22/2021	ND<2.25	**6.88**	187	0.669	ND<0.562	32.5	NA	13.7	36.5	20.6	0.0785	0.745	49.7	ND<2.25	ND<1.12	ND<2.25	36.8	75.5
KVP-4	KVP-4-2.5	2.5	9/22/2021	ND<2.26	**4.93**	194	0.716	ND<0.565	40.1	NA	15.4	38.3	22.2	0.0620	0.715	54.9	ND<2.26	ND<1.13	ND<2.26	39.8	69.8
KVP-5	KVP-5-15	15.0	9/22/2021	ND<2.21	**4.71**	167	0.568	ND<0.552	33.1	NA	11.2	26.2	8.23	0.0501	0.909	50.8	ND<2.21	ND<1.10	ND<2.21	36.3	51.5
KVP-6	KVP-6-10	10.0	9/22/2021	ND<2.18	**4.30**	146	0.583	ND<0.546	34.3	NA	12.6	25.9	9.19	0.0483	0.666	62.2	ND<2.18	ND<1.09	ND<2.18	34.6	50.5
KVP-7	KVP-7-2.5	2.5	9/22/2021	ND<2.30	**2.46**	215	0.799	ND<0.574	54.2*	0.176	16.3	42.4	12.9	0.0584	0.782	68.7	ND<2.30	ND<1.15	ND<2.30	58.1	78.2
KVP-8	KVP-8-2.5	2.5	9/22/2021	ND<2.28	**4.80**	201	0.684	ND<0.570	33.4	NA	15.1	37.5	16.3	0.0544	0.753	54.3	ND<2.28	ND<1.14	ND<2.28	38.3	71.2
KVP-9	KVP-9-2.5	2.5	9/22/2021	ND<2.26	**5.62**	174	0.606	ND<0.556	31.3	NA	12.9	34.4	22.7	0.0751	0.653	46.2	ND<2.26	ND<1.13	ND<2.26	35.1	70.9
KVP-10	KVP-10-15	15.0	9/22/2021	ND<2.12	**4.31**	157	0.590	ND<0.531	33.8	NA	11.2	25.3	8.71	0.0539	0.800	50.4	ND<2.12	ND<1.06	ND<2.12	33.8	50.3
KVP-11	KVP-11-10	10.0	9/17/2021	ND<2.13	**3.64**	161	0.718	ND<0.532	48.6	NA	11.0	25.0	7.16	0.0526	0.802	62.8	ND<2.13	ND<1.06	ND<2.13	51.1	55.1
KVP-12	KVP-12-2.5	2.5	9/17/2021	ND<2.31	**6.16**	206	0.857	ND<0.578	43.4	NA	13.1	45.3	10.3	0.0751	0.824	65.4	ND<2.31	ND<1.16	ND<2.31	50.6	81.6
KVP-13	KVP-13-5	5.0	9/17/2021	ND<2.18	**2.71**	194	0.787	ND<0.546	44.5	NA	12.7	32.6	8.15	0.0760	1.11	60.5	ND<2.18	ND<1.09	ND<2.18	47.7	66.8
KVP-14	KVP-14-5	5.0	9/17/2021	ND<2.31	**5.11**	191	0.844	ND<0.578	51.6*	ND<0.0900	14.8	37.7	9.6	0.0627	1.23	72.0	ND<2.31	ND<1.16	ND<2.31	51.4	75.5
ESL – Tier 1				11	0.067	390	5.0	1.9	160	NA	23	180	32	13	6.9	86	2.4	25	0.78	18	340
ESL – Residential				11	0.067	15,000	16	78	120,000**	NA	23	3,100	80	13	390	820	390	390	0.78	390	23,000
ESL – Commercial/Industrial				160	0.31	220,000	230	1,100	1,800,000**	NA	350	47,000	320	190	5,800	11,000	5,800	5,800	12	5,800	350,000
DTSC-SL – Residential				NV	0.11	NV	16	71	NV	NA	NV	NV	80	1.0	NV	820	NV	NV	NV	NV	NV
DTSC-SL – Commercial/Industrial				NV	0.36	NV	230	780	NV	NA	NV	NV	320	4.4	NV	11,000	NV	NV	NV	NV	NV
RSL – Residential				31	0.68	15,000	160	71***	120,000****	NA	23	3,100	400	11	390	1,500*****	390	390	0.78******	390	23,000
RSL – Industrial				470	3.0	220,000	2,300	980***	1,800,000****	NA	350	47,000	800	46	5,800	22,000*****	5,800	5,800	12******	5,800	350,000
TTLC (mg/kg)				500	50	10,000	75	100	2,500	NA	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
STLC (mg/L)				15	5.0	100	0.75	1.0	5.0	5.0	80	25	5.0	0.2	350	20	1.0	5.0	7.0	24	250
TCLP Value (mg/L)				NV	5.0	100.0	NV	1.0	5.0	NA	NV	NV	5.0	0.2	NV	NV	1.0	5.0	NV	NV	NV
			10 times STLC	150	50	1,000	7.5	10	50	NA	800	250	50	2	3,500	200	10	50	70	240	2,500
			20 times TCLP	NV	100	2,000	NV	20	100	NA	NV	NV	100	4	NV	NV	20	100	NV	NV	NV

Notes:

STLC	California Code of Regulations Title 22 Soluble Threshold Limit Concentration.
mg/kg	Milligrams per kilogram.
bgs	Below ground surface.
6010B / 7471A	United States Environmental Protection Agency (US EPA) analytical method number.
WET	California Code of Regulations Title 22 Waste Extraction Test.
ND	Not present at a concentration at or above the laboratory's "Reported Detection Limit" that follows the "less than" (<) symbol.
*	Indicates result exceeds 10 times analyte's STLC value.
NA	Sample not analyzed for analyte (if indicated as a sample's analytical result) or item is not applicable to result (if shown beneath analytical results).
ESL	San Francisco Bay Regional Water Quality Control Board Environmental Screening Level for soil, January 2019 (Rev. 1).
**	Value is for trivalent chromium.
DTSC-SL	Modified soil screening level from California Environmental Protection Agency Department of Toxic Substances Control (DTSC) Office of Human and Ecological Risk (HERO) *Human Health Risk Assessment (HHRA) Note Number 3, DTSC-modified Screening Levels (DTSC-SLs)* . Release date: June 2020.
NV	Analyte has no published value.
RSL	US EPA Regional Screening Level for soil, May 2021.
***	Value is for cadmium in diet.
****	Value is for trivalent chromium soluble salts.
*****	Value is for nickel soluble salts.
******	Value is for thallium soluble salts.
TTLC	California Code of Regulations Title 22 Total Threshold Limit Concentration.
mg/L	Milligrams per liter.
TCLP	Federal Toxicity Characteristic Leaching Procedure.
3.01	Bold font indicates result exceeds analyte's lowest commercial/industrial screening value for soil.

TABLE 3
SOIL VAPOR ANALYTICAL RESULTS
Proposed Costco Wholesale Warehouse Facility
Former Firestone / Midas Mufflers
5287 Prospect Road
San Jose, Santa Clara County, California
CW20-0355-01 (Westgate West)

Soil Vapor Probe	Sample	Depth (feet bgs)	Date Sampled	Helium (leak check gas) (percent) ASTM D1946	TPH Low Fraction (µg/m^3) TO-15	VOCs: Acetone (µg/m^3) TO-15	Benzene (µg/m^3) TO-15	2-Butanone (MEK) (µg/m^3) TO-15	Carbon Disulfide (µg/m^3) TO-15	Carbon Tetrachloride (µg/m^3) TO-15	Chloroform (µg/m^3) TO-15	Chloro-methane (µg/m^3) TO-15	Cyclo-hexane (µg/m^3) TO-15	1,1-Dichloroethane (µg/m^3) TO-15
KVP-1	KVP-1-5	5.0	10/1/2021	1.05	901 B	10.5	8.66	ND<3.69	ND<0.622	2.46	ND<0.973	0.456	ND<0.689	ND<0.802
	KVP-1-15	15.0	10/1/2021	0.905	1,330 B	8.46	1.49	ND<3.69	ND<0.622	**10.1**	3.86	ND<0.413	ND<0.689	ND<0.802
KVP-2	KVP-2-5	5.0	10/1/2021	0.782	1,110 B	19.0	<0.639	ND<3.69	ND<0.622	ND<1.26	ND<0.973	ND<0.413	ND<0.689	ND<0.802
	KVP-2-15	15.0	10/1/2021	0.251	1,070 B	9.12	<0.639	ND<3.69	ND<0.622	4.08	1.57	0.646	ND<0.689	0.850
KVP-3	KVP-3-5	5.0	10/1/2021	0.781	1,260 B	4.11	<0.639	ND<3.69	ND<0.622	ND<1.26	ND<0.973	ND<0.413	ND<0.689	ND<0.802
	KVP-3-15*	15.0	10/1/2021	0.786*	ND<826*	65.6*	1.2*	4.60*	ND<0.622*	ND<1.26*	ND<0.973*	1.91*	2.69*	ND<0.802*
KVP-4	KVP-4-5	5.0	10/1/2021	0.699	1,240 B	9.79	0.811	ND<3.69	ND<0.622	ND<1.26	ND<0.973	ND<0.413	ND<0.689	ND<0.802
	KVP-4-15	15.0	10/1/2021	1.01	1,210 B	11.0	1.15	ND<3.69	ND<0.622	2.28	1.16	ND<0.413	3.12	1.90
KVP-5	KVP-5-5	5.0	10/1/2021	ND<0.100	5,620 B	ND<2.97	1.45	ND<3.69	ND<0.622	ND<1.26	ND<0.973	ND<0.413	7.78	ND<0.802
	KVP-5-15	15.0	10/1/2021	ND<0.100	1, 520 B	31.1	1.11	5.04	ND<0.622	2.71	ND<0.973	ND<0.413	ND<0.689	ND<0.802
KVP-6	KVP-6-5	5.0	10/1/2021	ND<0.100	884 B	3.28	ND<0.639	ND<3.69	ND<0.622	ND<1.26	ND<0.973	ND<0.413	ND<0.689	ND<0.802
	KVP-6-15	15.0	10/1/2021	0.375	996 B	50.6	1.14	10.3	ND<0.622	2.31	ND<0.973	ND<0.413	ND<0.689	ND<0.802
KVP-7	KVP-7-5	5.0	10/1/2021	0.237	921 B	4.61	ND<0.639	ND<3.69	7.07	1.88	ND<0.973	ND<0.413	ND<0.689	ND<0.802
	KVP-7-15	15.0	10/1/2021	ND<0.100	1,320 B	6.01	ND<0.639	ND<3.69	ND<0.622	3.02	ND<0.973	ND<0.413	ND<0.689	ND<0.802
KVP-8	KVP-8-5	5.0	10/1/2021	ND<0.100	901 B	5.80	0.716	ND<3.69	3.02	1.66	ND<0.973	ND<0.413	ND<0.689	ND<0.802
	KVP-8-15	15.0	10/1/2021	Not sampled due to Summa canister vacuum loss										
KVP-9	KVP-9-5	5.0	10/1/2021	0.132	1,350 B	ND<2.97	8.37	ND<3.69	ND<0.622	2.92	ND<0.973	ND<0.413	9.95	ND<0.802
	KVP-9-15	15.0	10/1/2021	0.168	1,700 B	35.2	3.93	4.57	ND<0.622	6.36	5.45	ND<0.413	4.13	ND<0.802
KVP-10	KVP-10-5	5.0	10/1/2021	ND<0.100	ND<826	6.42	ND<0.639	ND<3.69	ND<0.622	ND<1.26	ND<0.973	ND<0.413	ND<0.689	ND<0.802
	KVP-10-15	15.0	10/1/2021	ND<0.100	ND<826	8.77	0.853	ND<3.69	ND<0.622	ND<1.26	ND<0.973	ND<0.413	1.22	ND<0.802
KVP-11	KVP-11-5	5.0	9/23/2021	0.118	979	18.0	1.70	ND<3.69	5.17	ND<1.26	ND<0.973	0.452	ND<0.689	ND<0.802
	KVP-11-15	15.0	9/23/2021	ND<0.100	ND<826	5.85	0.930	ND<3.69	1.88	1.90	ND<0.973	0.63	ND<0.689	ND<0.802
KVP-12	KVP-12-5	5.0	9/23/2021	ND<0.100	880	5.92	1.80	ND<3.69	6.47	1.63	ND<0.973	ND<0.413	ND<0.689	ND<0.802
	KVP-12-15	15.0	9/23/2021	0.257	1,770	5.87	8.15	ND<3.69	32.4	3.79	ND<0.973	ND<0.413	ND<0.689	ND<0.802
KVP-13	KVP-13-5	5.0	9/23/2021	ND<0.100	987	6.53	1.45	ND<3.69	7.69	ND<1.26	ND<0.973	ND<0.413	ND<0.689	ND<0.802
	KVP-13-15	15.0	9/23/2021	0.121	1,100	11.3	1.75	ND<3.69	7.03	1.26	ND<0.973	ND<0.413	ND<0.689	ND<0.802
KVP-14	KVP-14-5	5.0	9/23/2021	ND<0.100	ND<826	5.28	2.36	ND<3.69	6.91	2.98	ND<0.973	ND<0.413	ND<0.689	ND<0.802
	KVP-14-15	15.0	9/23/2021	ND<0.100	ND<826	3.45	0.805	ND<3.69	7.84	**12.7**	ND<0.973	ND<0.413	ND<0.689	ND<0.802
ESL – Tier 1				NV	3,300	1,000,000	3.2	170,000	NV	2.2	4.1	3,100	NV	58
ESL – Residential				NV	20,000	1,100,000	3.2	170,000	NV	2.2	4.1	3,100	NV	58
ESL – Commercial/Industrial				NV	83,000	4,500,000	14	730,000	NV	9.7	18	13,000	NV	260
DTSC-SL – Residential (AF = 0.03)				NV	20,000**	NV	3.2	NV	NV	NV	NV	NV	NV	NV
DTSC-SL – Commercial/Industrial (AF = 0.03)				NV	83,000**	NV	14	NV	NV	NV	NV	NV	NV	NV
RSL – Residential (AF = 0.03)				NV	4,333	1,066,667	12	173,333	24,333	16	4.0	3,133	210,000	60
RSL – Commercial/Industrial (AF = 0.03)				NV	18,067	4,666,667	53	733,333	103,333	67	18	13,000	866,667	257
DTSC-SL – Residential (AF = 0.001)				NV	600,000**	NV	97	NV	NV	NV	NV	NV	NV	NV
DTSC-SL – Commercial/Industrial (AF = 0.001)				NV	2,500,000**	NV	420	NV	NV	NV	NV	NV	NV	NV
RSL – Residential (AF = 0.001)				NV	130,000	32,000,000	360	5,200,000	730,000	470	120	94,000	6,300,000	1,800
RSL – Commercial/Industrial (AF = 0.001)				NV	542,000	140,000,000	1,600	22,000,000	3,100,000	2,000	530	390,000	26,000,000	7,700

Sample	VOCs: 1,1-Dichloroethene (µg/m^3) TO-15	cis-1,2-Dichloroethene (µg/m^3) TO-15	1,1-Difluoroethane (µg/m^3) TO-15	Ethanol (µg/m^3) TO-15	Ethylbenzene (µg/m^3) TO-15	4-Ethyltoluene (µg/m^3) TO-15	Freon 11 (µg/m^3) TO-15	Freon 12 (µg/m^3) TO-15	Heptane (µg/m^3) TO-15	n-Hexane (µg/m^3) TO-15	Isopropyl-benzene (µg/m^3) TO-15	Methylene Chloride (µg/m^3) TO-15	4-Methyl-2-Pentanone (MIBK) (µg/m^3) TO-15	Methyl Methacrylate (µg/m^3) TO-15	2-Propanol (µg/m^3) TO-15
KVP-1-5	ND<0.793	ND<0.793	4.57	7.64	7.33	1.77	1.41	7.62	1.45	5.64	ND<0.983	1.49	ND<5.12	ND<0.819	ND<3.07
KVP-1-15	62.2	ND<0.793	ND<2.70	4.43	1.79	ND<0.982	1.84	17.0	ND<0.818	ND<2.22	ND<0.983	ND<0.694	ND<5.12	ND<0.819	ND<3.07
KVP-2-5	ND<0.793	2.65	ND<2.70	3.85	2.92	1.16	1.57	5.74	ND<0.818	ND<2.22	ND<0.983	ND<0.694	ND<5.12	ND<0.819	ND<3.07
KVP-2-15	27.5	ND<0.793	15.1	41.9	0.919	ND<0.982	1.59	8.41	ND<0.818	ND<2.22	ND<0.983	1.38	ND<5.12	ND<0.819	10.5
KVP-3-5	ND<0.793	4.48	2.86	6.01	2.70	ND<0.982	1.69	6.87	ND<0.818	ND<2.22	ND<0.983	1.15	ND<5.12	ND<0.819	ND<3.07
KVP-3-15*	1.65*	ND<0.793*	5.43*	439*	0.889*	ND<0.982*	1.16*	3.00*	7.81*	ND<2.22*	ND<0.983*	6.46*	ND<5.12*	ND<0.819*	152*
KVP-4-5	ND<0.793	ND<0.793	11.8	9.31	1.61	ND<0.982	1.39	4.14	ND<0.818	ND<2.22	ND<0.983	5.35	ND<5.12	ND<0.819	ND<3.07
KVP-4-15	7.65	ND<0.793	ND<2.70	59.8	3.13	ND<0.982	3.24	6.48	4.34	13.1	ND<0.983	1.44	ND<5.12	1.25	14.8
KVP-5-5	ND<0.793	ND<0.793	15.3	35.8	2.86	ND<0.982	1.43	3.72	2.41	ND<2.22	ND<0.983	6.08	ND<5.12	ND<0.819	9.96
KVP-5-15	4.84	ND<0.793	ND<2.70	12.0	4.06	ND<0.982	1.74	6.58	1.22	ND<2.22	ND<0.983	2.61	ND<5.12	ND<0.819	ND<3.07
KVP-6-5	ND<0.793	ND<0.793	ND<2.70	8.45	1.42	ND<0.982	1.48	3.81	ND<0.818	ND<2.22	ND<0.983	3.92	ND<5.12	ND<0.819	ND<3.07
KVP-6-15	ND<0.793	ND<0.793	ND<2.70	11.2	3.99	1.09	1.79	5.64	0.969	ND<2.22	ND<0.983	ND<0.694	5.65	ND<0.819	ND<3.07
KVP-7-5	ND<0.793	ND<0.793	ND<2.70	5.24	5.42	1.71	2.04	8.11	1.03	ND<2.22	ND<0.983	ND<0.694	ND<5.12	ND<0.819	ND<3.07
KVP-7-15	ND<0.793	ND<0.793	ND<2.70	4.17	1.60	ND<0.982	2.20	10.8	ND<0.818	ND<2.22	ND<0.983	4.48	ND<5.12	ND<0.819	ND<3.07
KVP-8-5	ND<0.793	ND<0.793	14.7	10.2	2.79	ND<0.982	1.89	10.3	ND<0.818	ND<2.22	ND<0.983	8.09	ND<5.12	ND<0.819	ND<3.07
KVP-8-15	Not sampled due to Summa canister vacuum loss														
KVP-9-5	4.08	ND<0.793	ND<2.70	107	4.55	2.45	1.87	11.1	8.71	21.9	ND<0.983	12.4	ND<5.12	ND<0.819	6.56
KVP-9-15	71.7	ND<0.793	ND<2.70	55.2	2.69	1.95	2.26	22.4	4.09	8.85	ND<0.983	6.74	ND<5.12	ND<0.819	10.6
KVP-10-5	ND<0.793	ND<0.793	ND<2.70	5.09	1.27	ND<0.982	1.17	2.18	ND<0.818	ND<2.22	ND<0.983	0.760	ND<5.12	ND<0.819	ND<3.07
KVP-10-15	ND<0.793	ND<0.793	ND<2.70	12.5	ND<0.867	ND<0.982	1.29	2.16	1.27	2.52	ND<0.983	ND<0.694	ND<5.12	ND<0.819	ND<3.07
KVP-11-5	ND<0.793	ND<0.793	8.91	41.5	12.0	6.82	1.43	1.80	8.55	3.67	ND<0.983	1.34	ND<5.12	ND<0.819	11.6
KVP-11-15	ND<0.793	ND<0.793	19.0	10.5	2.55	1.57	1.39	1.91	1.11	3.41	ND<0.983	2.42	ND<5.12	ND<0.819	ND<3.07
KVP-12-5	ND<0.793	ND<0.793	9.21	5.62	10.9	7.56	1.41	2.17	2.37	6.35	ND<0.983	4.48	ND<5.12	ND<0.819	ND<3.07
KVP-12-15	3.32	ND<0.793	2.94	8.33	10.8	5.40	1.48	2.27	4.99	10.6	ND<0.983	9.38	ND<5.12	ND<0.819	ND<3.07
KVP-13-5	ND<0.793	ND<0.793	18.3	8.47	9.80	7.21	1.38	1.74	1.27	3.30	ND<0.983	3.08	ND<5.12	ND<0.819	ND<3.07
KVP-13-15	ND<0.793	ND<0.793	8.91	11.6	4.77	3.25	1.37	1.80	2.75	ND<2.22	ND<0.983	0.990	ND<5.12	ND<0.819	4.60
KVP-14-5	ND<0.793	ND<0.793	9.35	5.75	11.7	7.61	1.73	3.13	2.16	3.63	1.05	3.96	ND<5.12	ND<0.819	ND<3.07
KVP-14-15	ND<0.793	ND<0.793	ND<2.70	3.28	1.67	1.20	1.56	3.88	ND<0.818	ND<2.22	ND<0.983	2.92	ND<5.12	ND<0.819	ND<3.07
ESL – Tier 1	2,400	280	NV	NV	37	NV	NV	NV	NV	NV	NV	34	14,000	NV	NV
ESL – Residential	2,400	280	NV	NV	37	NV	NV	NV	NV	NV	NV	34	100,000	NV	NV
ESL – Commercial/Industrial	10,000	1,200	NV	NV	160	NV	NV	NV	NV	NV	NV	410	440,000	NV	NV
DTSC-SL – Residential (AF = 0.03)	2,433	277	NV	NV	NL	NV	43,333	NV	NV	NV	NV	33	NV	NV	NV
DTSC-SL – Commercial/Industrial (AF = 0.03)	10,333	1,167	NV	NV	NL	NV	176,667	NV	NV	NV	NV	400	NV	NV	NV
RSL – Residential (AF = 0.03)	7,000	NV	1,400,000	NV	37	NV	NV	3,333	14,000	24,333	14,000	3,333	103,333	24,333	7,000
RSL – Commercial/Industrial (AF = 0.03)	29,333	NV	6,000,000	NV	163	NV	NV	14,667	60,000	103,333	43,333	40,000	433,333	103,333	29,333
DTSC-SL – Residential (AF = 0.001)	73,000	8,300	NV	NV	NV	NV	1,300,000	NV	NV	NV	NV	1,000	NV	NV	NV
DTSC-SL – Commercial/Industrial (AF = 0.001)	310,000	350,000	NV	NV	NV	NV	5,300,000	NV	NV	NV	NV	12,000	NV	NV	NV
RSL – Residential (AF = 0.001)	210,000	NV	42,000,000	NV	1,100	NV	NV	100,000	420,000	730,000	420,000	100,000	3,100,000	730,000	210,000
RSL – Commercial/Industrial (AF = 0.001)	880,000	NV	180,000,000	NV	4,900	NV	NV	440,000	1,800,000	3,100,000	1,300,000	1,200,000	13,000,000	3,100,000	880,000

Sample	VOCs: Propene (µg/m^3) TO-15	Styrene (µg/m^3) TO-15	PCE (µg/m^3) TO-15	Tetrahydro-furan (µg/m^3) TO-15	Toluene (µg/m^3) TO-15	1,1,1-Trichloroethane (µg/m^3) TO-15	TCE (µg/m^3) TO-15	1,2,4-Trimethyl-benzene (µg/m^3) TO-15	1,3,5-Trimethyl-benzene (µg/m^3) TO-15	2,2,4-Trimethyl-pentane (µg/m^3) TO-15	Vinyl Acetate (µg/m^3) TO-15	Vinyl Chloride (µg/m^3) TO-15	m,p-Xylenes (µg/m^3) TO-15	o-Xylene (µg/m^3) TO-15	Other VOCs (µg/m^3) TO-15
KVP-1-5	ND<2.15	ND<0.851	**158**	ND<0.590	33.9	658	2.37	5.79	3.75	ND<0.934	ND<0.704	ND<0.511	19.9	8.32	ND<0.511 - ND<6.73
KVP-1-15	2.15	ND<0.851	21.3	ND<0.590	11.5	2,580	1.93	1.99	1.03	ND<0.934	ND<0.704	ND<0.511	6.37	2.90	ND<0.511 - ND<6.73
KVP-2-5	ND<2.15	ND<0.851	**310**	ND<0.590	10.8	811	132	6.87	2.88	ND<0.934	ND<0.704	ND<0.511	12.2	6.16	ND<0.511 - ND<6.73
KVP-2-15	ND<2.15	ND<0.851	60.8	1.59	13.2	772	2.07	ND<0.982	ND<0.982	ND<0.934	2.49	ND<0.511	2.58	1.11	ND<0.511 - ND<6.73
KVP-3-5	ND<2.15	ND<0.851	**570**	ND<0.590	9.72	626	**234**	2.28	1.42	ND<0.934	1.04	ND<0.511	7.80	3.84	ND<0.511 - ND<6.73
KVP-3-15*	ND<2.15*	1.00*	8.96*	7.61*	89.3*	79.4*	ND<1.07*	ND<0.982*	ND<0.982*	ND<0.934*	ND<0.704*	ND<0.511*	2.43*	1.16*	ND<0.511 - ND<6.73*
KVP-4-5	ND<2.15	ND<0.851	**923**	ND<0.590	9.79	232	5.68	2.33	1.22	ND<0.934	1.21	ND<0.511	6.20	3.20	ND<0.511 - ND<6.73
KVP-4-15	ND<2.15	ND<0.851	**411**	1.14	42.2	903	2.27	1.07	ND<0.982	ND<0.934	ND<0.704	0.519	10.9	3.42	ND<0.511 - ND<6.73
KVP-5-5	ND<2.15	0.919	**462**	ND<0.590	14.5	301	ND<1.07	3.64	1.49	71.0	ND<0.704	ND<0.511	8.63	5.03	ND<0.511 - ND<6.73
KVP-5-15	ND<2.15	ND<0.851	**386**	ND<0.590	27.6	887	ND<1.07	3.08	1.58	ND<0.934	ND<0.704	ND<0.511	12.6	5.42	ND<0.511 - ND<6.73
KVP-6-5	ND<2.15	ND<0.851	**401**	ND<0.590	4.93	285	ND<1.07	2.09	1.45	ND<0.934	ND<0.704	ND<0.511	4.03	2.46	ND<0.511 - ND<6.73
KVP-6-15	ND<2.15	ND<0.851	**124**	ND<0.590	21.2	827	ND<1.07	4.46	2.57	ND<0.934	ND<0.704	ND<0.511	13.2	5.85	ND<0.511 - ND<6.73
KVP-7-5	ND<2.15	ND<0.851	4.32	ND<0.590	13.3	357	ND<1.07	3.25	3.55	1.42	ND<0.704	ND<0.511	10.4	6.68	ND<0.511 - ND<6.73
KVP-7-15	ND<2.15	ND<0.851	ND<1.36	ND<0.590	13.0	914	2.18	1.78	ND<0.982	ND<0.934	ND<0.704	ND<0.511	5.72	2.97	ND<0.511 - ND<6.73
KVP-8-5	ND<2.15	ND<0.851	15.5	ND<0.590	12.4	691	5.18	2.85	1.60	ND<0.934	ND<0.704	ND<0.511	8.11	4.51	ND<0.511 - ND<6.73
KVP-8-15	Not sampled due to Summa canister vacuum loss														
KVP-9-5	ND<2.15	1.17	1.85	6.37	45.6	914	3.75	3.28	1.42	9.67	ND<0.704	ND<0.511	13.7	5.64	ND<0.511 - ND<6.73
KVP-9-15	ND<2.15	ND<0.851	ND<1.36	3.48	27.5	1,920	2.58	2.64	1.12	4.07	ND<0.704	ND<0.511	9.49	3.86	ND<0.511 - ND<6.73
KVP-10-5	ND<2.15	ND<0.851	2.44	ND<0.590	4.22	45.4	ND<1.07	2.47	1.40	ND<0.934	ND<0.704	ND<0.511	4.51	2.79	ND<0.511 - ND<6.73
KVP-10-15	ND<2.15	ND<0.851	ND<1.36	ND<0.590	8.66	72.3	ND<1.07	1.13	ND<0.982	1.37	ND<0.704	ND<0.511	3.1	1.60	ND<0.511 - ND<6.73
KVP-11-5	ND<2.15	ND<0.851	3.90	ND<0.590	97.9	361	ND<1.07	5.69	4.28	2.86	ND<0.704	ND<0.511	42.1	14.9	ND<0.511 - ND<6.73
KVP-11-15	ND<2.15	ND<0.851	ND<1.36	ND<0.590	18.6	353	ND<1.07	1.40	ND<0.982	ND<0.934	ND<0.704	ND<0.511	8.11	2.90	ND<0.511 - ND<6.73
KVP-12-5	ND<2.15	ND<0.851	23.6	ND<0.590	42.2	514	ND<1.07	6.48	5.01	2.27	ND<0.704	ND<0.511	39.5	14.2	ND<0.511 - ND<6.73
KVP-12-15	4.25	ND<0.851	3.76	ND<0.590	72.7	865	ND<1.07	4.29	3.49	20.4	ND<0.704	ND<0.511	31.2	11.1	ND<0.511 - ND<6.73
KVP-13-5	ND<2.15	ND<0.851	ND<1.36	ND<0.590	33.2	162	ND<1.07	7.66	4.67	1.35	ND<0.704	ND<0.511	37.6	16.3	ND<0.511 - ND<6.73
KVP-13-15	ND<2.15	ND<0.851	ND<1.36	ND<0.590	58.4	224	ND<1.07	3.37	1.74	1.20	ND<0.704	ND<0.511	15.9	5.98	ND<0.511 - ND<6.73
KVP-14-5	ND<2.15	ND<0.851	ND<1.36	ND<0.590	50.9	60.9	ND<1.07	7.85	5.50	3.10	ND<0.704	ND<0.511	41.8	17.7	ND<0.511 - ND<6.73
KVP-14-15	ND<2.15	ND<0.851	ND<1.36	0.899	9.38	123	ND<1.07	1.11	ND<0.982	ND<0.934	ND<0.704	ND<0.511	5.38	2.41	ND<0.511 - ND<6.73
ESL – Tier 1	NV	31,000	15	NV	10,000	35,000	16	NV	NV	NV	NV	0.30	3,400		Vary or NV
ESL – Residential	NV	31,000	15	NV	10,000	35,000	16	NV	NV	NV	NV	0.32	3,400		Vary or NV
ESL – Commercial/Industrial	NV	130,000	67	NV	44,000	150,000	100	NV	NV	NV	NV	5.2	15,000		Vary or NV
DTSC-SL – Residential (AF = 0.03)	NV	31,333	15	NV	10,333	33,333	NV	NV	NV	NV	NV	0.32	NV	NV	Vary or NV
DTSC-SL – Commercial/Industrial (AF = 0.03)	NV	130,000	67	NV	43,333	146,667	NV	NV	NV	NV	NV	5.3	NV	NV	Vary or NV
RSL – Residential (AF = 0.03)	103,333	33,333	367	70,000	173,333	173,333	16	2,100	2,100	NV	7,000	5.7	3,333	3,333	Vary or NV
RSL – Commercial/Industrial (AF = 0.03)	433,333	146,667	1,567	293,333	733,333	733,333	100	8,667	8,667	NV	29,333	93	14,667	14,667	Vary or NV
DTSC-SL – Residential (AF = 0.001)	NV	940,000	460	NV	310,000	1,000,000	NV	NV	NV	NV	NV	9.5	NV	NV	Vary or NV
DTSC-SL – Commercial/Industrial (AF = 0.001)	NV	3,900,000	2,000	NV	1,300,000	4,400,000	NV	NV	NV	NV	NV	160	NV	NV	Vary or NV
RSL – Residential (AF = 0.001)	3,100,000	1,000,000	11,000	2,100,000	5,200,000	5,200,000	480	63,000	63,000	NV	210,000	170	100,000	100,000	Vary or NV
RSL – Commercial/Industrial (AF = 0.001)	13,000,000	4,400,000	47,000	8,800,000	22,000,000	22,000,000	3,000	260,000	260,000	NV	880,000	2,800	440,000	440,000	Vary or NV

Notes:

TPH Total petroleum hydrocarbons.
VOCs Volatile organic compounds.
MEK Methyl ethyl ketone.
Freon 11 Trichlorofluoromethane.
Freon 12 Dichlorodifluoromethane.
MIBK Methyl isobutyl ketone.
PCE Tetrachloroethylene.
TCE Trichloroethylene.
µg/m^3 Micrograms per cubic meter.
bgs Below ground surface.
ASTM D-1946 ASTM International analytical method number.
TO-15 United States Environmental Protection Agency (US EPA) analytical method number.
ND Not present at a concentration at or above the laboratory's "Reported Detection Limit" that follows the "less than" (<) symbol.
B Laboratory qualifier indicating analyte was present in the laboratory blank sample associated with the sample batch.
* At the time of sampling, the Summa canister for Sample KVP-3-15 contained an initial vacuum of only -7 inches of mercury and a final vacuum of -5 inches of mercury. The results thus may or may not be representative.
ESL San Francisco Bay Regional Water Quality Control Board Environmental Screening Level for soil vapor (revised July 2019).
NV Analyte has no published value.
DTSC-SL Soil vapor screening level based on modified ambient air screening level provided in California Environmental Protection Agency Department of Toxic Substances Control (DTSC) Office of Human and Ecological Risk (HERO) *Human Health Risk Assessment (HHRA) Note Number 3, DTSC-modified Screening Levels (DTSC-SLs). Release date: June 2020*. Each screening value incorporates a soil vapor attenuation factor of 0.03 pursuant to current US EPA and DTSC guidance.
AF Soil vapor to indoor air attenuation factor recommended by the DTSC and US EPA.
** Value is not based on a DTSC-SL and instead is based on analyte's ESL for indoor air divided by the indicated AF. This value was given primacy over the RSL-based value in making the comparisons with TPH Low Fraction results.
RSL Soil vapor screening level based on US EPA Regional Screening Level for air (May 2021). TPH RSLs are based on the following equation: TPH RSL = $1/((0.80/RSL_{TPH\ Aliphatic\ Low}) + (0.20/RSL_{TPH\ Aromatic\ Low}))$.
158 Bold font indicates result exceeds analyte's lowest commercial/industrial screening value for soil vapor.

TABLE 4
CALCULATED PROBE LEAKAGE AMOUNTS
Former Firestone and Midas Facility
Westgate West Shopping Mall
Northeast of Lawrence Boulevard and Prospect Road
San Jose, California

Soil Vapor Probe	Sample	Depth (feet bgs)	Date Sampled	Sample's Helium Concentration (percent)	Shroud's Minimum Helium Concentration (percent)	Calculated Leakage Amount (percent)
KVP-1	KVP-1-5	5.0	10/1/2021	1.05	5.6	**18.8**
	KVP-1-15	15.0	10/1/2021	0.905	4.5	**20.1**
KVP-2	KVP-2-5	5.0	10/1/2021	0.782	3.2	**24.4**
	KVP-2-15	15.0	10/1/2021	0.251	11.3	2.2
KVP-3	KVP-3-5	5.0	10/1/2021	0.781	16.5	4.7
	KVP-3-15*	15.0	10/1/2021	0.786	21.3	3.7
KVP-4	KVP-4-5	5.0	10/1/2021	0.699	9.8	**7.1**
	KVP-4-15	15.0	10/1/2021	1.01	21.7	4.7
KVP-5	KVP-5-5	5.0	10/1/2021	ND<0.100	26.2	<0.4
	KVP-5-15	15.0	10/1/2021	ND<0.100	21.7	<0.5
KVP-6	KVP-6-5	5.0	10/1/2021	ND<0.100	5.2	<1.9
	KVP-6-15	15.0	10/1/2021	0.375	10.9	3.4
KVP-7	KVP-7-5	5.0	10/1/2021	0.237	22.7	1.0
	KVP-7-15	15.0	10/1/2021	ND<0.100	27.9	<0.4
KVP-8	KVP-8-5	5.0	10/1/2021	ND<0.100	NM	NM
	KVP-8-15	15.0	10/1/2021	Not sampled due to Summa canister vacuum loss		
KVP-9	KVP-9-5	5.0	10/1/2021	0.132	21.3	0.6
	KVP-9-15	15.0	10/1/2021	0.168	31.1	0.5
KVP-10	KVP-10-5	5.0	10/1/2021	ND<0.100	13.5	<0.7
	KVP-10-15	15.0	10/1/2021	ND<0.100	14.6	<0.7
KVP-11	KVP-11-5	5.0	9/23/2021	0.118	14.1	0.8
	KVP-11-15	15.0	9/23/2021	ND<0.100	20.2	<0.5
KVP-12	KVP-12-5	5.0	9/23/2021	ND<0.100	20.1	<0.5
	KVP-12-15	15.0	9/23/2021	0.257	20.4	1.3
KVP-13	KVP-13-5	5.0	9/23/2021	ND<0.100	20.7	<0.5
	KVP-13-15	15.0	9/23/2021	0.121	17.1	0.7
KVP-14	KVP-14-5	5.0	9/23/2021	ND<0.100	24.1	<0.4
	KVP-14-15	15.0	9/23/2021	ND<0.100	14.1	<0.7

Notes:

bgs — Below ground surface.

* — At the time of sampling, the Summa canister for Sample KVP-3-15 contained an initial vacuum of only -7 inches of

ND — Not present at a concentration at or above the laboratory's "Reported Detection Limit" (RDL) that follows the "less than" (<) symbol.

NM — Final helium concentration not monitored.

18.8 — Leakage amounts shown in bold font are higher than 5 percent. The California Environmental Protection Agency's guidance for active soil vapor sampling indicates if the tracer concentration in a sample is equal to or higher than 5 percent of the tracer's concentration in the shroud, "corrective action is necessary to either remedy the leak or relocate the probe prior to collecting a soil gas sample."

<0.4 — The "less than" symbol (<) indicates the value shown represents a maximum approximate leakage amount calculated using the laboratory's RDL for helium, as it was not present in the sample at a concentration at or above the RDL.

ATTACHMENT A
BORE LOGS

SAMPLE/SAMPLER TYPE GRAPHICS

- Direct Push
- GRAB SAMPLE

WELL MATERIAL GRAPHICS

- SOIL VAPOR PROBE TUBING IN SAND
- SOIL VAPOR PROBE AND TUBING IN BENTONITE CHIPS
- SOIL VAPOR PROBE AND TUBING IN SAND
- SOIL VAPOR TUBING IN CEMENT GROUT
- SOIL VAPOR TUBING IN BENTONITE CHIPS
- SOIL VAPOR TUBING IN CEMENT GROUT

WELL BACKFILL MATERIAL GRAPHICS

- BENTONITE CHIPS
- CEMENT GROUT
- SAND

GROUND WATER GRAPHICS

- WATER LEVEL (level where first observed)
- WATER LEVEL (level after exploration completion)
- WATER LEVEL (additional levels after exploration)
- OBSERVED SEEPAGE

NOTES

- The report and graphics key are an integral part of these logs. All data and interpretations in this log are subject to the explanations and limitations stated in the report.
- Lines separating strata on the logs represent approximate boundaries only. Actual transitions may be gradual or differ from those shown.
- No warranty is provided as to the continuity of soil or rock conditions between individual sample locations.
- Logs represent general soil or rock conditions observed at the point of exploration on the date indicated.
- In general, Unified Soil Classification System designations presented on the logs were based on visual classification in the field and were modified where appropriate based on gradation and index property testing.
- Fine grained soils that plot within the hatched area on the Plasticity Chart, and coarse grained soils with between 5% and 12% passing the No. 200 sieve require dual USCS symbols, ie., GW-GM, GP-GM, GW-GC, GP-GC, GC-GM, SW-SM, SP-SM, SW-SC, SP-SC, SC-SM.
- If sampler is not able to be driven at least 6 inches then 50/X indicates number of blows required to drive the identified sampler X inches with a 140 pound hammer falling 30 inches.

ABBREVIATIONS
WOH - Weight of Hammer
WOR - Weight of Rod

OIL SOIL BALL INDICATOR
S - Saturated with NAPL
P - Positive indication of NAPL
SP - Slightly Positive with NAPL
U - Undetectable NAPL

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487)

COARSE GRAINED SOILS (More than half of material is larger than the #200 sieve)	**GRAVELS** (More than half of coarse fraction is larger than the #4 sieve)	CLEAN GRAVEL WITH <5% FINES	Cu≥4 and 1≤Cc≤3		**GW**	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE OR NO FINES
			Cu<4 and/ or 1>Cc>3		**GP**	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE OR NO FINES
		GRAVELS WITH 5% TO 12% FINES	Cu≥4 and 1≤Cc≤3		**GW-GM**	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE FINES
					GW-GC	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE CLAY FINES
			Cu<4 and/ or 1>Cc>3		**GP-GM**	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE FINES
					GP-GC	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE CLAY FINES
		GRAVELS WITH > 12% FINES			**GM**	SILTY GRAVELS, GRAVEL-SILT-SAND MIXTURES
					GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
					GC-GM	CLAYEY GRAVELS, GRAVEL-SAND-CLAY-SILT MIXTURES
	SANDS (Half or more of coarse fraction is smaller than the #4 sieve)	CLEAN SANDS WITH <5% FINES	Cu≥6 and 1≤Cc≤3		**SW**	WELL-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
			Cu<6 and/ or 1>Cc>3		**SP**	POORLY GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
		SANDS WITH 5% TO 12% FINES	Cu≥6 and 1≤Cc≤3		**SW-SM**	WELL-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE FINES
					SW-SC	WELL-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE CLAY FINES
			Cu<6 and/ or 1>Cc>3		**SP-SM**	POORLY GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE FINES
					SP-SC	POORLY GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE CLAY FINES
		SANDS WITH > 12% FINES			**SM**	SILTY SANDS, SAND-GRAVEL-SILT MIXTURES
					SC	CLAYEY SANDS, SAND-GRAVEL-CLAY MIXTURES
					SC-SM	CLAYEY SANDS, SAND-SILT-CLAY MIXTURES

FINE GRAINED SOILS (Half or more of material is smaller than the #200 sieve)	SILTS AND CLAYS (Liquid Limit less than 50)	**ML**	INORGANIC SILTS AND VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, SILTS WITH SLIGHT PLASTICITY
		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		CL-ML	INORGANIC CLAYS-SILTS OF LOW PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		OL	ORGANIC SILTS & ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS (Liquid Limit 50 or greater)	**MH**	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILT
		CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
		OH	ORGANIC CLAYS & ORGANIC SILTS OF MEDIUM-TO-HIGH PLASTICITY

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.: 20221076.001A
DRAWN BY: MAP
CHECKED BY: HAV
DATE: 10/28/2021

GRAPHICS KEY

Proposed Costco Wholesale Warehouse Facility
Former Firestone / Midas Mufflers - 5287 Prospect Road
San Jose, Santa Clara County, California 95129
CW20-0355-01 (Westgate West)

BORE KVP-1 LOG

Date Begin - End:	9/22/2021	**Drilling Company:**	Confluence
Logged By:	B. Connelly, V. Golston	**Drill Crew:**	K. Lorenz
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger / Geoprobe 6600
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column
Weather:	70s, sunny	**Exploration Diameter:**	3.25 in. O.D.

FIELD EXPLORATION | SOIL VAPOR PROBE INSTALLATION

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Surface Condition: Concrete / Lithologic Description
							CONCRETE: 4 in. thick
	Hand Auger						**Sandy Lean CLAY (CL)**: brown, dry, medium stiff
							- minor black staining from 2.0 feet to 3.0 feet
		X	KVP-1-2.5		2.4		
							Lean CLAY (CL): brown, dry, soft, trace gravel
5			KVP-1-5		5.3		**Sandy Lean CLAY (CL)**: dark brown, dry, trace sub-rounded fine gravel
	Direct Push						
10			KVP-1-10		3.9		**Gravelly Lean CLAY (CL)**: coarse angular gravel, brown
							Sandy Lean CLAY (CL): brown, trace fine gravel
15			KVP-1-15		5.0		

Portland cement grout containing approximately 5% bentonite by dry weight
Dry bentonite granules
Sand
Vapor implant
Portland cement grout containing approximately 5% bentonite by dry weight
Dry bentonite granules
Sand
Vapor implant

The bore was terminated at approximately 15.5 feet below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
PID = photo-ionization detector.
% = percent.
in. = inch (or inches).
O.D. = outer diameter.
ppmv = parts per million by volume.
The soil vapor probe will be abandoned at a later date.

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.: 20221076.001A
DRAWN BY: MAP
CHECKED BY: HAV
DATE: 10/28/2021

BORE KVP-1 LOG

Proposed Costco Wholesale Warehouse Facility
Former Firestone / Midas Mufflers - 5287 Prospect Road
San Jose, Santa Clara County, California 95129
CW20-0355-01 (Westgate West)

BORE KVP-2 LOG

Date Begin - End:	9/22/2021	**Drilling Company:**	Confluence
Logged By:	B. Connelly, V. Golston	**Drill Crew:**	K. Lorenz
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger / Geoprobe 6600
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column
Weather:	70s, sunny	**Exploration Diameter:**	3.25 in. O.D.

FIELD EXPLORATION | SOIL VAPOR PROBE INSTALLATION

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Surface Condition: Concrete / Lithologic Description
							CONCRETE: 4 in. thick
							Sandy Lean CLAY (CL): brown, dry
	Hand Auger		KVP-2-2.5		55		- thin layer of concrete at 2.0 feet, dark staining from 2.0 feet to 3.5 feet
5			KVP-2-5		3.5		
	Direct Push						
10			KVP-2-10		3.0		
							Sandy Lean CLAY with Gravel (CL)
							Sandy Lean CLAY (CL): brown
15			KVP-2-15		4.2		

Soil vapor probe installation: Portland cement grout containing approximately 5% bentonite by dry weight; Dry bentonite granules; Sand; Vapor implant; Portland cement grout containing approximately 5% bentonite by dry weight; Dry bentonite granules; Sand; Vapor implant

The bore was terminated at approximately 15.5 feet below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.

GENERAL NOTES:
PID = photo-ionization detector.
% = percent.
in. = inch (or inches).
O.D. = outer diameter.
ppmv = parts per million by volume.
The soil vapor probe will be abandoned at a later date.

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BORE KVP-2 LOG

Proposed Costco Wholesale Warehouse Facility
Former Firestone / Midas Mufflers - 5287 Prospect Road
San Jose, Santa Clara County, California 95129
CW20-0355-01 (Westgate West)

Date Begin - End:	9/22/2021	**Drilling Company:**	Confluence
Logged By:	B. Connelly, V. Golston	**Drill Crew:**	K. Lorenz
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger / Geoprobe 6600
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column
Weather:	70s, sunny	**Exploration Diameter:**	3.25 in. O.D.

BORE KVP-3 LOG

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Surface Condition: Concrete Lithologic Description	SOIL VAPOR PROBE INSTALLATION
							CONCRETE: 4 in. thick	
							Sandy Lean CLAY (CL): brown, dry	Portland cement grout containing approximately 5% bentonite by dry weight
	Hand Auger						- minor black staining from 2.0 feet to 3.0 feet	
			KVP-3-2.5		270			
							Lean CLAY (CL): brown, trace gravel	Dry bentonite granules
								Sand
5			KVP-3-5		52		- no gravel below 5 feet	Vapor implant
							Lean CLAY with Gravel (CL): brown	
								Portland cement grout containing approximately 5% bentonite by dry weight
10	Direct Push		KVP-3-10		10.2		**Sandy Lean CLAY (CL)**: brown, dry	
								Dry bentonite granules
								Sand
15			KVP-3-15		13.5			Vapor implant

The bore was terminated at approximately 15.5 feet below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.

GENERAL NOTES:
PID = photo-ionization detector.
% = percent.
in. = inch (or inches).
O.D. = outer diameter.
ppmv = parts per million by volume.
The soil vapor probe will be abandoned at a later date.

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DATE: 10/28/2021

BORE KVP-3 LOG

Proposed Costco Wholesale Warehouse Facility
Former Firestone / Midas Mufflers - 5287 Prospect Road
San Jose, Santa Clara County, California 95129
CW20-0355-01 (Westgate West)

Date Begin - End:	9/22/2021	**Drilling Company:**	Confluence
Logged By:	B. Connelly, V. Golston	**Drill Crew:**	K. Lorenz
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger / Geoprobe 6600
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column
Weather:	70s, sunny	**Exploration Diameter:**	3.25 in. O.D.

BORE KVP-4 LOG

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Surface Condition: Concrete Lithologic Description	SOIL VAPOR PROBE INSTALLATION
							CONCRETE: 4 in. thick	
							Sandy Lean CLAY (CL): dark brown, dry, soft, trace black staining	Portland cement grout containing approximately 5% bentonite by dry weight
							Sandy Lean CLAY (CL): dark brown, dry, soft, trace black staining and fine gravel	
	Hand Auger		KVP-4-2.5		117		**Lean CLAY (CL)**: brown, black staining	
							Sandy Lean CLAY (CL): dark brown, dry, trace fine and coarse gravel	Dry bentonite granules Sand Vapor implant
5			KVP-4-5		44		- brown below 5.0 feet	
								Portland cement grout containing approximately 5% bentonite by dry weight
10	Direct Push		KVP-4-10		22			
							Gravelly Lean CLAY (CL): light grayish brown, dry, medium stiff	Dry bentonite granules Sand Vapor implant
15			KVP-4-15		45			

The bore was terminated at approximately 15.5 feet below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.

GENERAL NOTES:
PID = photo-ionization detector.
% = percent.
in. = inch (or inches).
O.D. = outer diameter.
ppmv = parts per million by volume.
The soil vapor probe will be abandoned at a later date.

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DATE: 10/28/2021

BORE KVP-4 LOG

Proposed Costco Wholesale Warehouse Facility
Former Firestone / Midas Mufflers - 5287 Prospect Road
San Jose, Santa Clara County, California 95129
CW20-0355-01 (Westgate West)

Date Begin - End:	9/22/2021	**Drilling Company:**	Confluence
Logged By:	B. Connelly, V. Golston	**Drill Crew:**	K. Lorenz
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger / Geoprobe 6600
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column
Weather:	70s, sunny	**Exploration Diameter:**	3.25 in. O.D.

BORE KVP-5 LOG

FIELD EXPLORATION | SOIL VAPOR PROBE INSTALLATION

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Surface Condition: Concrete / Lithologic Description
							CONCRETE: 4 in. thick
							Sandy Lean CLAY (CL): dark brown, dry, soft, trace black staining
							Sandy Lean CLAY (CL): dark brown, dry, soft, trace black staining and fine gravel
	Hand Auger		KVP-5-2.5		16.1		**Lean CLAY (CL)**: brown, with black staining
							Sandy Lean CLAY (CL): dark brown, dry, trace fine and coarse gravel
5			KVP-5-5		14.2		**Lean CLAY with Gravel (CL)**: brown, dry, stiff
10	Direct Push		KVP-5-10		210		
							Gravelly Lean CLAY (CL): light grayish brown, dry, medium stiff
15			KVP-5-15		250		

SOIL VAPOR PROBE INSTALLATION:
- Portland cement grout containing approximately 5% bentonite by dry weight
- Dry bentonite granules
- Sand
- Vapor implant
- Portland cement grout containing approximately 5% bentonite by dry weight
- Dry bentonite granules
- Sand
- Vapor implant

The bore was terminated at approximately 15.5 feet below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.

GENERAL NOTES:
PID = photo-ionization detector.
% = percent.
in. = inch (or inches).
O.D. = outer diameter.
ppmv = parts per million by volume.
The soil vapor probe will be abandoned at a later date.

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DATE: 10/28/2021

BORE KVP-5 LOG

Proposed Costco Wholesale Warehouse Facility
Former Firestone / Midas Mufflers - 5287 Prospect Road
San Jose, Santa Clara County, California 95129
CW20-0355-01 (Westgate West)

BORE KVP-6 LOG

Date Begin - End:	9/22/2021	**Drilling Company:**	Confluence
Logged By:	B. Connelly, V. Golston	**Drill Crew:**	K. Lorenz
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger / Geoprobe 6600
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column
Weather:	70s, sunny	**Exploration Diameter:**	3.25 in. O.D.

FIELD EXPLORATION | SOIL VAPOR PROBE INSTALLATION

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Surface Condition: Concrete / Lithologic Description
							CONCRETE: 4 in. thick
							Sandy Lean CLAY (CL): brown, dry, medium stiff
	Hand Auger		KVP-6-2.5		33.8		**Lean CLAY (CL)**: brown, medium stiff, trace gravel, black staining to 3.0 feet
							Gravelly Lean CLAY with Sand (CL): dark brown, dry, soft
5			KVP-6-5		5.6		**Lean CLAY with Gravel (CL)**: brown, dry, stiff
10	Direct Push		KVP-6-10		500		**Gravelly Lean CLAY (CL)**: light grayish brown, dry, medium stiff
15			KVP-6-15		318		

Soil vapor probe installation: Portland cement grout containing approximately 5% bentonite by dry weight; Dry bentonite granules; Sand; Vapor implant; Portland cement grout containing approximately 5% bentonite by dry weight; Dry bentonite granules; Sand; Vapor implant

The bore was terminated at approximately 15.5 feet below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.

GENERAL NOTES:
PID = photo-ionization detector.
% = percent.
in. = inch (or inches).
O.D. = outer diameter.
ppmv = parts per million by volume.
The soil vapor probe will be abandoned at a later date.

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BORE KVP-6 LOG

Proposed Costco Wholesale Warehouse Facility
Former Firestone / Midas Mufflers - 5287 Prospect Road
San Jose, Santa Clara County, California 95129
CW20-0355-01 (Westgate West)

BORE KVP-7 LOG

Date Begin - End:	9/22/2021	**Drilling Company:**	Confluence
Logged By:	B. Connelly, V. Golston	**Drill Crew:**	K. Lorenz
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger / Geoprobe 6600
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column
Weather:	70s, sunny	**Exploration Diameter:**	3.25 in. O.D.

FIELD EXPLORATION | SOIL VAPOR PROBE INSTALLATION

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Surface Condition: Concrete / Lithologic Description
							CONCRETE: 4 in. thick
	Hand Auger						**Sandy Lean CLAY (CL)**: brown, dry, medium stiff
		X	KVP-7-2.5		6.9		**Lean CLAY (CL)**: trace fine and coarse gravel
							Gravelly Lean CLAY with Sand (CL): dark brown
5			KVP-7-5		1.4		**Lean CLAY with Gravel (CL)**: coarse angular gravel, dry, medium stiff to stiff
	Direct Push						
10			KVP-7-10		1.7		**Gravelly Lean CLAY (CL)**: light grayish brown, dry, soft to medium stiff
15			KVP-7-15		6.1		

Soil vapor probe installation: Portland cement grout containing approximately 5% bentonite by dry weight; Dry bentonite granules; Sand; Vapor implant; Portland cement grout containing approximately 5% bentonite by dry weight; Dry bentonite granules; Sand; Vapor implant

The bore was terminated at approximately 15.5 feet below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.

GENERAL NOTES:
PID = photo-ionization detector.
% = percent.
in. = inch (or inches).
O.D. = outer diameter.
ppmv = parts per million by volume.
The soil vapor probe will be abandoned at a later date.

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BORE KVP-7 LOG

Proposed Costco Wholesale Warehouse Facility
Former Firestone / Midas Mufflers - 5287 Prospect Road
San Jose, Santa Clara County, California 95129
CW20-0355-01 (Westgate West)

BORE KVP-8 LOG

Date Begin - End:	9/22/2021	**Drilling Company:**	Confluence
Logged By:	B. Connelly, V. Golston	**Drill Crew:**	K. Lorenz
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger / Geoprobe 6600
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column
Weather:	70s, sunny	**Exploration Diameter:**	3.25 in. O.D.

FIELD EXPLORATION | SOIL VAPOR PROBE INSTALLATION

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Surface Condition: Concrete / Lithologic Description
							CONCRETE: 4 in. thick
							Sandy Lean CLAY (CL): brown
	Hand Auger		KVP-8-2.5		4.2		
5			KVP-8-5		4.2		
							- trace gravel from 7 feet to 10 feet
10	Direct Push		KVP-8-10		1.7		
							Sandy Lean CLAY with Gravel (CL): brown
							Poorly Graded SAND (SP): fine-grained, light brown
							Sandy Lean CLAY (CL): brown, dry
15			KVP-8-15		1.3		

Portland cement grout containing approximately 5% bentonite by dry weight
Dry bentonite granules
Sand
Vapor implant
Portland cement grout containing approximately 5% bentonite by dry weight
Dry bentonite granules
Sand
Vapor implant

The bore was terminated at approximately 15.5 feet below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
PID = photo-ionization detector.
% = percent.
in. = inch (or inches).
O.D. = outer diameter.
ppmv = parts per million by volume.
The soil vapor probe will be abandoned at a later date.

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BORE KVP-8 LOG

Proposed Costco Wholesale Warehouse Facility
Former Firestone / Midas Mufflers - 5287 Prospect Road
San Jose, Santa Clara County, California 95129
CW20-0355-01 (Westgate West)

BORE KVP-9 LOG

Date Begin - End:	9/22/2021	**Drilling Company:**	Confluence
Logged By:	B. Connelly	**Drill Crew:**	K. Lorenz
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger / Geoprobe 6600
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column
Weather:	70s, sunny	**Exploration Diameter:**	3.25 in. O.D.

FIELD EXPLORATION | SOIL VAPOR PROBE INSTALLATION

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Lithologic Description
							Surface Condition: Concrete
							CONCRETE: 4 in. thick
							Sandy Lean CLAY (CL): brown
	Hand Auger		KVP-9-2.5		37.3		
5			KVP-9-5		230		
							Sandy Lean CLAY with Gravel (CL): brown
10	Direct Push		KVP-9-10		7.2		**Sandy Lean CLAY (CL)**: brown, trace gravel
15			KVP-9-15		4.9		

Portland cement grout containing approximately 5% bentonite by dry weight
Dry bentonite granules
Sand
Vapor implant
Portland cement grout containing approximately 5% bentonite by dry weight
Dry bentonite granules
Sand
Vapor implant

The bore was terminated at approximately 15.5 feet below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
PID = photo-ionization detector.
% = percent.
in. = inch (or inches).
O.D. = outer diameter.
ppmv = parts per million by volume.
The soil vapor probe will be abandoned at a later date.

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BORE KVP-9 LOG

Proposed Costco Wholesale Warehouse Facility
Former Firestone / Midas Mufflers - 5287 Prospect Road
San Jose, Santa Clara County, California 95129
CW20-0355-01 (Westgate West)

BORE KVP-10 LOG

Date Begin - End:	9/22/2021	**Drilling Company:**	Confluence
Logged By:	B. Connelly, V. Golston	**Drill Crew:**	K. Lorenz
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger / Geoprobe 6600
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column
Weather:	70s, sunny	**Exploration Diameter:**	3.25 in. O.D.

FIELD EXPLORATION | SOIL VAPOR PROBE INSTALLATION

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Surface Condition: Concrete / Lithologic Description
							CONCRETE: 5 in. thick
							AGGREGATE BASE: 7 in. thick
							Lean CLAY (CL): dark brown, dry, soft, trace sand
	Hand Auger		KVP-10-2.5		8.0		
							- trace fine to coarse sub-rounded gravel from 4.0 feet to 5.0 feet
5			KVP-10-5		20.5		- brown below 5.0 feet
10	Direct Push		KVP-10-10		96		- light brownish gray below 10.0 feet
15			KVP-10-15		157		

Portland cement grout containing approximately 5% bentonite by dry weight
Dry bentonite granules
Sand
Vapor implant
Portland cement grout containing approximately 5% bentonite by dry weight
Dry bentonite granules
Sand
Vapor implant

The bore was terminated at approximately 15.5 feet below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
PID = photo-ionization detector.
% = percent.
in. = inch (or inches).
O.D. = outer diameter.
ppmv = parts per million by volume.
The soil vapor probe will be abandoned at a later date.

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BORE KVP-10 LOG

Proposed Costco Wholesale Warehouse Facility
Former Firestone / Midas Mufflers - 5287 Prospect Road
San Jose, Santa Clara County, California 95129
CW20-0355-01 (Westgate West)

Date Begin - End:	9/17/2021	**Drilling Company:**	Confluence
Logged By:	B. Connelly	**Drill Crew:**	K. Lorenz
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger / Geoprobe 6600
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column
Weather:	70s, sunny	**Exploration Diameter:**	3.25 in. O.D.

BORE KVP-11 LOG

FIELD EXPLORATION | SOIL VAPOR PROBE INSTALLATION

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Surface Condition: Asphalt Lithologic Description
							ASPHALT: 4 in. thick
							AGGREGATE BASE: 8 in. thick
							Lean CLAY (CL): dark brown, moist
	Hand Auger		KVP-11-2.5		169		
							Lean CLAY with Gravel (CL): dark brown, moist
5			KVP-11-5		54		**Lean CLAY (CL)**: brown, trace gravel
10	Direct Push		KVP-11-10		185		- no gravel, trace sand, dry below 10.0 feet
15			KVP-11-15		61		

SOIL VAPOR PROBE INSTALLATION:
- Portland cement grout containing approximately 5% bentonite by dry weight
- Dry bentonite granules
- Sand
- Vapor implant
- Portland cement grout containing approximately 5% bentonite by dry weight
- Dry bentonite granules
- Sand
- Vapor implant

The bore was terminated at approximately 15.5 feet below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.

GENERAL NOTES:
PID = photo-ionization detector.
% = percent.
in. = inch (or inches).
O.D. = outer diameter.
ppmv = parts per million by volume.
The soil vapor probe will be abandoned at a later date.

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DATE: 10/28/2021

BORE KVP-11 LOG

Proposed Costco Wholesale Warehouse Facility
Former Firestone / Midas Mufflers - 5287 Prospect Road
San Jose, Santa Clara County, California 95129
CW20-0355-01 (Westgate West)

BORE KVP-12 LOG

Date Begin - End:	9/17/2021	**Drilling Company:**	Confluence
Logged By:	B. Connelly	**Drill Crew:**	K. Lorenz
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger / Geoprobe 6600
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column
Weather:	70s, sunny	**Exploration Diameter:**	3.25 in. O.D.

FIELD EXPLORATION | SOIL VAPOR PROBE INSTALLATION

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Surface Condition: Asphalt / Lithologic Description
							ASPHALT: 4 in. thick
							AGGREGATE BASE: 8 in. thick
	Hand Auger		KVP-12-2.5		120		**Lean CLAY (CL)**: medium plasticity, dark brown, moist
							Well-Graded SAND with Gravel (SW): brown
5			KVP-12-5		60		**Lean CLAY (CL)**: medium plasticity, brown, moist
	Direct Push		KVP-12-10		63		
							GRAVEL (GP): fine and coarse
							Lean CLAY (CL): brown, dry, trace sand
15			KVP-12-15		32		

Portland cement grout containing approximately 5% bentonite by dry weight
Dry bentonite granules
Sand
Vapor implant
Portland cement grout containing approximately 5% bentonite by dry weight
Dry bentonite granules
Sand
Vapor implant

The bore was terminated at approximately 15.5 feet below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
PID = photo-ionization detector.
% = percent.
in. = inch (or inches).
O.D. = outer diameter.
ppmv = parts per million by volume.
The soil vapor probe will be abandoned at a later date.

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BORE KVP-12 LOG

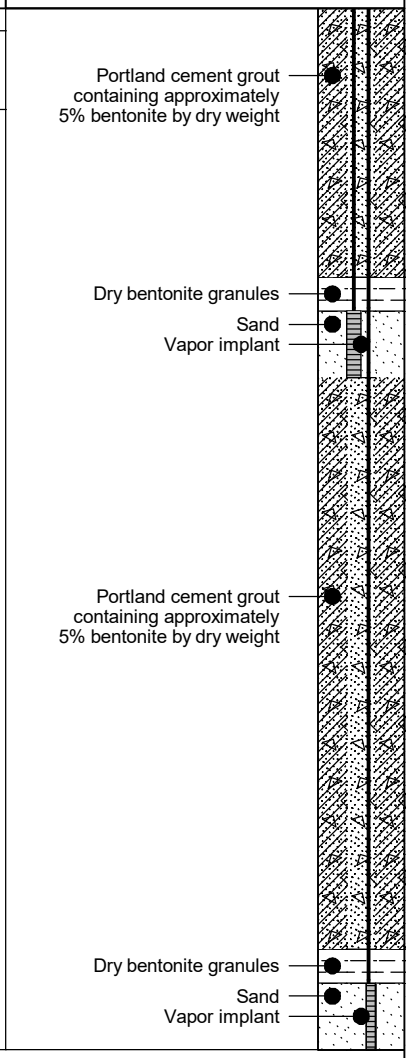
Proposed Costco Wholesale Warehouse Facility
Former Firestone / Midas Mufflers - 5287 Prospect Road
San Jose, Santa Clara County, California 95129
CW20-0355-01 (Westgate West)

Date Begin - End:	9/17/2021	**Drilling Company:**	Confluence
Logged By:	B. Connelly	**Drill Crew:**	K. Lorenz
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger / Geoprobe 6600
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column
Weather:	70s, sunny	**Exploration Diameter:**	3.25 in. O.D.

BORE KVP-13 LOG

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Lithologic Description
							Surface Condition: Asphalt
							ASPHALT: 4 in. thick
							Lean CLAY with Gravel (CL): dark brown
							Lean CLAY (CL): dark brown, moist
							- no odor below 2.0 feet
	Hand Auger		KVP-13-2.5		11.2		
5			KVP-13-5		25.2		- brown below 5.0 feet
	Direct Push						
10			KVP-13-10		17.2		- trace sand below 10.0 feet
15			KVP-13-15		9.0		

SOIL VAPOR PROBE INSTALLATION



The bore was terminated at approximately 15.5 feet below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.

GENERAL NOTES:
PID = photo-ionization detector.
% = percent.
in. = inch (or inches).
O.D. = outer diameter.
ppmv = parts per million by volume.
The soil vapor probe will be abandoned at a later date.

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DATE: 10/28/2021

BORE KVP-13 LOG

Proposed Costco Wholesale Warehouse Facility
Former Firestone / Midas Mufflers - 5287 Prospect Road
San Jose, Santa Clara County, California 95129
CW20-0355-01 (Westgate West)

Date Begin - End:	9/17/2021	**Drilling Company:**	Confluence
Logged By:	B. Connelly	**Drill Crew:**	K. Lorenz
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger / Geoprobe 6600
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column
Weather:	70s, sunny	**Exploration Diameter:**	3.25 in. O.D.

BORE KVP-14 LOG

FIELD EXPLORATION | SOIL VAPOR PROBE INSTALLATION

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Surface Condition: Asphalt Lithologic Description
							ASPHALT: 2 in. thick
							AGGREGATE BASE: 6 in. thick
							Lean CLAY (CL): dark brown, moist
	Hand Auger						- brown, no odor below 2.0 feet
			KVP-14-2.5		74		
							- trace gravel below 4.0 feet
5			KVP-14-5		85		- medium plasticity, no gravel below 5.0 feet
10	Direct Push		KVP-14-10		55		- trace gravel below 10.0 feet
							Well-Graded SAND (SW): brown to light brown, trace gravel
							Well-Graded SAND with Gravel (SW): brown, dry
15			KVP-14-15		52		

Portland cement grout containing approximately 5% bentonite by dry weight
Dry bentonite granules
Sand
Vapor implant
Portland cement grout containing approximately 5% bentonite by dry weight
Dry bentonite granules
Sand
Vapor implant

The bore was terminated at approximately 15.5 feet below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
PID = photo-ionization detector.
% = percent.
in. = inch (or inches).
O.D. = outer diameter.
ppmv = parts per million by volume.
The soil vapor probe will be abandoned at a later date.

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.: 20221076.001A
DRAWN BY: MAP
CHECKED BY: HAV
DATE: 10/28/2021

BORE KVP-14 LOG

Proposed Costco Wholesale Warehouse Facility
Former Firestone / Midas Mufflers - 5287 Prospect Road
San Jose, Santa Clara County, California 95129
CW20-0355-01 (Westgate West)

ATTACHMENT B
ANALYTICAL LABORATORY REPORTS

ANALYTICAL REPORT

September 30, 2021

Revised Report

Kleinfelder - Laguna Hills, CA

Sample Delivery Group:	L1405817
Samples Received:	09/18/2021
Project Number:	
Description:	Costco Westgate W.

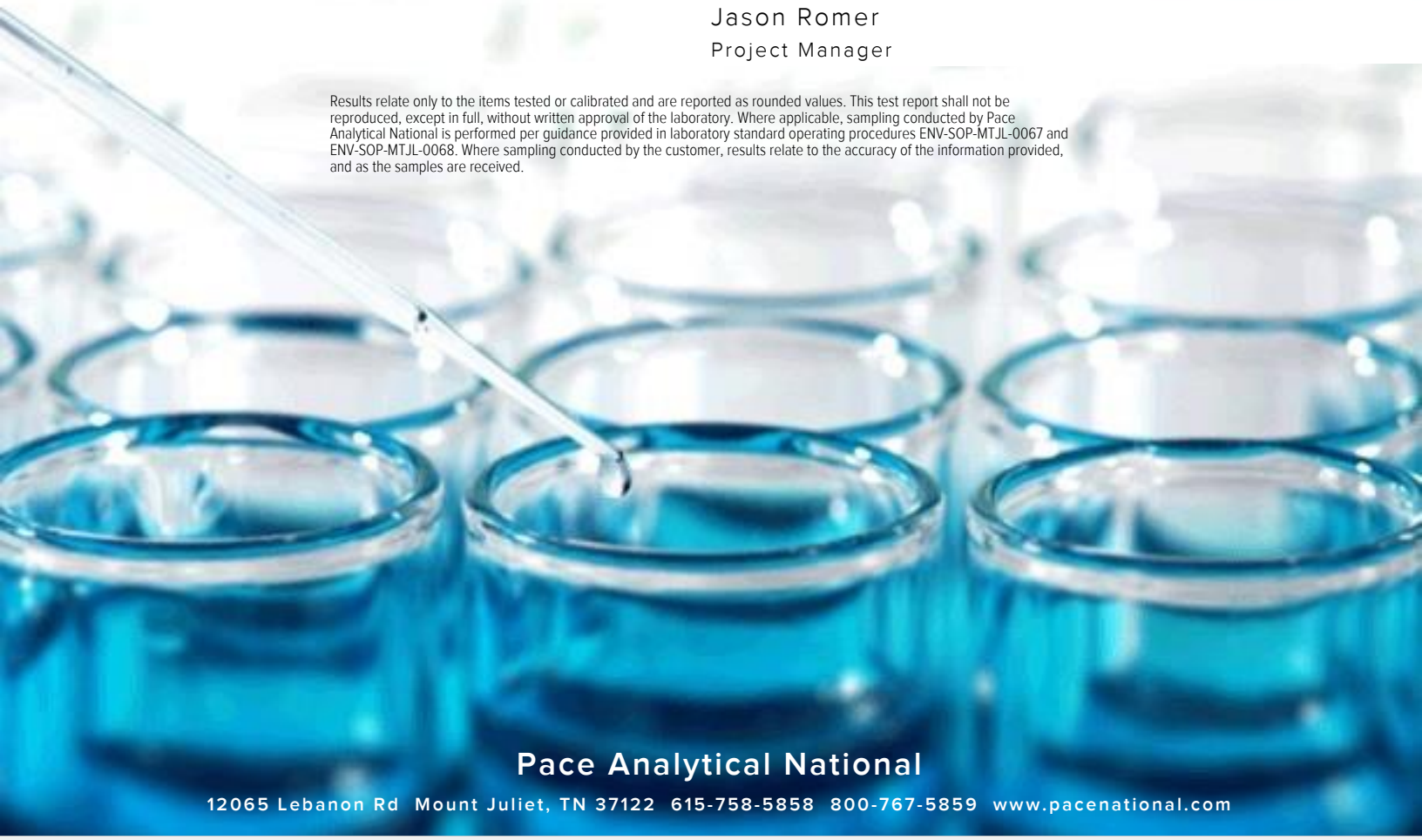
Report To:

Brandon Connelly
24411 Ridge Route Dr
Suite 225
Laguna Hills, CA 92653

Entire Report Reviewed By:

Jason Romer
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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SAMPLE SUMMARY

KVP-14-5 L1405817-02 Solid

Collected by: Brandon Connelly | Collected date/time: 09/17/21 11:00 | Received date/time: 09/18/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1745599	1	09/24/21 12:25	09/24/21 12:32	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1745976	1	09/24/21 10:26	09/24/21 17:13	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1746239	1	09/24/21 16:44	09/27/21 13:39	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1745990	25	09/17/21 11:00	09/27/21 07:46	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1746500	1	09/17/21 11:00	09/25/21 18:56	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1746182	1	09/25/21 22:56	09/26/21 08:21	JN	Mt. Juliet, TN

KVP-13-5 L1405817-06 Solid

Collected by: Brandon Connelly | Collected date/time: 09/17/21 09:15 | Received date/time: 09/18/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1745599	1	09/24/21 12:25	09/24/21 12:32	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1745976	1	09/24/21 10:26	09/24/21 17:16	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1746239	1	09/24/21 16:44	09/27/21 13:42	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1745990	25	09/17/21 09:15	09/27/21 08:08	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1746500	1	09/17/21 09:15	09/25/21 19:17	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1746182	1	09/25/21 22:56	09/26/21 10:34	JN	Mt. Juliet, TN

KVP-12-2.5 L1405817-09 Solid

Collected by: Brandon Connelly | Collected date/time: 09/17/21 13:00 | Received date/time: 09/18/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1745599	1	09/24/21 12:25	09/24/21 12:32	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1745976	1	09/24/21 10:26	09/24/21 17:19	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1746239	1	09/24/21 16:44	09/27/21 13:45	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1745990	25	09/17/21 13:00	09/27/21 08:30	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1746500	1	09/17/21 13:00	09/25/21 19:39	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1746182	1	09/25/21 22:56	09/26/21 08:37	JN	Mt. Juliet, TN

KVP-11-10 L1405817-15 Solid

Collected by: Brandon Connelly | Collected date/time: 09/17/21 14:15 | Received date/time: 09/18/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1745599	1	09/24/21 12:25	09/24/21 12:32	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1745976	1	09/24/21 10:26	09/24/21 17:21	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1746239	1	09/24/21 16:44	09/27/21 14:27	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1745990	25	09/17/21 14:15	09/27/21 08:52	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1746500	1.01	09/17/21 14:15	09/25/21 20:00	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1746182	1	09/25/21 22:56	09/26/21 11:07	JN	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Project Manager

Report Revision History

Level II Report - Version 1: 09/27/21 17:10

Project Narrative

Revised Sample IDs

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.4		1	09/24/2021 12:32	WG1745599

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0627		0.0463	1	09/24/2021 17:13	WG1745976

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.31	1	09/27/2021 13:39	WG1746239
Arsenic	5.11		2.31	1	09/27/2021 13:39	WG1746239
Barium	191		0.578	1	09/27/2021 13:39	WG1746239
Beryllium	0.844		0.231	1	09/27/2021 13:39	WG1746239
Cadmium	ND		0.578	1	09/27/2021 13:39	WG1746239
Chromium	51.6		1.16	1	09/27/2021 13:39	WG1746239
Cobalt	14.8		1.16	1	09/27/2021 13:39	WG1746239
Copper	37.7		2.31	1	09/27/2021 13:39	WG1746239
Lead	9.55		0.578	1	09/27/2021 13:39	WG1746239
Molybdenum	1.23		0.578	1	09/27/2021 13:39	WG1746239
Nickel	72.0		2.31	1	09/27/2021 13:39	WG1746239
Selenium	ND		2.31	1	09/27/2021 13:39	WG1746239
Silver	ND		1.16	1	09/27/2021 13:39	WG1746239
Thallium	ND		2.31	1	09/27/2021 13:39	WG1746239
Vanadium	51.4		2.31	1	09/27/2021 13:39	WG1746239
Zinc	75.5		5.78	1	09/27/2021 13:39	WG1746239

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPHG C5 - C12	ND		3.42	25	09/27/2021 07:46	WG1745990
(S) a,a,a-Trifluorotoluene(FID)	*90.3*		*77.0-120*		*09/27/2021 07:46*	WG1745990

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0578	1	09/25/2021 18:56	WG1746500
Acrylonitrile	ND		0.0116	1	09/25/2021 18:56	WG1746500
Benzene	ND		0.00116	1	09/25/2021 18:56	WG1746500
Bromobenzene	ND		0.00116	1	09/25/2021 18:56	WG1746500
Bromodichloromethane	ND		0.00116	1	09/25/2021 18:56	WG1746500
Bromoform	ND		0.00116	1	09/25/2021 18:56	WG1746500
Bromomethane	ND		0.00578	1	09/25/2021 18:56	WG1746500
n-Butylbenzene	ND		0.00116	1	09/25/2021 18:56	WG1746500
sec-Butylbenzene	ND		0.00116	1	09/25/2021 18:56	WG1746500
tert-Butylbenzene	ND		0.00116	1	09/25/2021 18:56	WG1746500
Carbon tetrachloride	ND		0.00116	1	09/25/2021 18:56	WG1746500
Carbon disulfide	ND		0.00116	1	09/25/2021 18:56	WG1746500
Chlorobenzene	ND		0.00116	1	09/25/2021 18:56	WG1746500
Chlorodibromomethane	ND		0.00116	1	09/25/2021 18:56	WG1746500
Chloroethane	ND		0.00578	1	09/25/2021 18:56	WG1746500
Chloroform	ND		0.00578	1	09/25/2021 18:56	WG1746500
Chloromethane	ND		0.00289	1	09/25/2021 18:56	WG1746500
2-Chlorotoluene	ND		0.00116	1	09/25/2021 18:56	WG1746500

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Chlorotoluene	ND		0.00116	1	09/25/2021 18:56	WG1746500
1,2-Dibromo-3-Chloropropane	ND		0.00578	1	09/25/2021 18:56	WG1746500
1,2-Dibromoethane	ND		0.00116	1	09/25/2021 18:56	WG1746500
Dibromomethane	ND		0.00116	1	09/25/2021 18:56	WG1746500
1,2-Dichlorobenzene	ND		0.00116	1	09/25/2021 18:56	WG1746500
1,3-Dichlorobenzene	ND		0.00116	1	09/25/2021 18:56	WG1746500
1,4-Dichlorobenzene	ND		0.00116	1	09/25/2021 18:56	WG1746500
Dichlorodifluoromethane	ND		0.00578	1	09/25/2021 18:56	WG1746500
1,1-Dichloroethane	ND		0.00116	1	09/25/2021 18:56	WG1746500
1,2-Dichloroethane	ND		0.00116	1	09/25/2021 18:56	WG1746500
1,1-Dichloroethene	ND		0.00116	1	09/25/2021 18:56	WG1746500
cis-1,2-Dichloroethene	ND		0.00116	1	09/25/2021 18:56	WG1746500
trans-1,2-Dichloroethene	ND		0.00116	1	09/25/2021 18:56	WG1746500
1,2-Dichloropropane	ND		0.00116	1	09/25/2021 18:56	WG1746500
1,1-Dichloropropene	ND		0.00116	1	09/25/2021 18:56	WG1746500
1,3-Dichloropropane	ND		0.00116	1	09/25/2021 18:56	WG1746500
cis-1,3-Dichloropropene	ND		0.00116	1	09/25/2021 18:56	WG1746500
trans-1,3-Dichloropropene	ND		0.00116	1	09/25/2021 18:56	WG1746500
2,2-Dichloropropane	ND		0.00116	1	09/25/2021 18:56	WG1746500
Ethylbenzene	ND		0.00116	1	09/25/2021 18:56	WG1746500
Hexachloro-1,3-butadiene	ND		0.00116	1	09/25/2021 18:56	WG1746500
Isopropylbenzene	ND		0.00116	1	09/25/2021 18:56	WG1746500
p-Isopropyltoluene	ND		0.00116	1	09/25/2021 18:56	WG1746500
2-Butanone (MEK)	ND		0.0116	1	09/25/2021 18:56	WG1746500
Methylene Chloride	ND		0.00578	1	09/25/2021 18:56	WG1746500
4-Methyl-2-pentanone (MIBK)	ND		0.0116	1	09/25/2021 18:56	WG1746500
Naphthalene	ND		0.00578	1	09/25/2021 18:56	WG1746500
n-Propylbenzene	ND		0.00116	1	09/25/2021 18:56	WG1746500
Styrene	ND		0.00116	1	09/25/2021 18:56	WG1746500
1,1,1,2-Tetrachloroethane	ND		0.00116	1	09/25/2021 18:56	WG1746500
1,1,2,2-Tetrachloroethane	ND		0.00116	1	09/25/2021 18:56	WG1746500
1,1,2-Trichlorotrifluoroethane	ND		0.00116	1	09/25/2021 18:56	WG1746500
Tetrachloroethene	ND		0.00116	1	09/25/2021 18:56	WG1746500
Toluene	ND		0.00578	1	09/25/2021 18:56	WG1746500
1,2,3-Trichlorobenzene	ND		0.00116	1	09/25/2021 18:56	WG1746500
1,2,4-Trichlorobenzene	ND		0.00116	1	09/25/2021 18:56	WG1746500
1,1,1-Trichloroethane	ND		0.00116	1	09/25/2021 18:56	WG1746500
1,1,2-Trichloroethane	ND		0.00116	1	09/25/2021 18:56	WG1746500
Trichloroethene	ND		0.00116	1	09/25/2021 18:56	WG1746500
Trichlorofluoromethane	ND		0.00578	1	09/25/2021 18:56	WG1746500
1,2,3-Trichloropropane	ND		0.00289	1	09/25/2021 18:56	WG1746500
1,2,4-Trimethylbenzene	ND		0.00116	1	09/25/2021 18:56	WG1746500
1,2,3-Trimethylbenzene	ND		0.00116	1	09/25/2021 18:56	WG1746500
1,3,5-Trimethylbenzene	ND		0.00116	1	09/25/2021 18:56	WG1746500
Vinyl chloride	ND		0.00116	1	09/25/2021 18:56	WG1746500
Xylenes, Total	ND		0.00347	1	09/25/2021 18:56	WG1746500
Di-isopropyl ether	ND		0.00116	1	09/25/2021 18:56	WG1746500
Ethanol	ND	J3	0.116	1	09/25/2021 18:56	WG1746500
Ethyl tert-butyl ether	ND		0.00116	1	09/25/2021 18:56	WG1746500
Methyl tert-butyl ether	ND		0.00116	1	09/25/2021 18:56	WG1746500
t-Amyl Alcohol	ND		0.0578	1	09/25/2021 18:56	WG1746500
tert-Butyl alcohol	ND		0.00578	1	09/25/2021 18:56	WG1746500
tert-Amyl Methyl Ether	ND		0.00116	1	09/25/2021 18:56	WG1746500
(S) Toluene-d8	*115*		*75.0-131*		*09/25/2021 18:56*	WG1746500
(S) 4-Bromofluorobenzene	*94.5*		*67.0-138*		*09/25/2021 18:56*	WG1746500
(S) 1,2-Dichloroethane-d4	*110*		*70.0-130*		*09/25/2021 18:56*	WG1746500

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	ND		4.63	1	09/26/2021 08:21	WG1746182
C22-C32 Hydrocarbons	ND		4.63	1	09/26/2021 08:21	WG1746182
C32-C40 Hydrocarbons	ND		4.63	1	09/26/2021 08:21	WG1746182
(S) o-Terphenyl	*72.0*		*18.0-148*		*09/26/2021 08:21*	WG1746182

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.6		1	09/24/2021 12:32	WG1745599

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0760		0.0437	1	09/24/2021 17:16	WG1745976

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.18	1	09/27/2021 13:42	WG1746239
Arsenic	2.71		2.18	1	09/27/2021 13:42	WG1746239
Barium	194		0.546	1	09/27/2021 13:42	WG1746239
Beryllium	0.787		0.218	1	09/27/2021 13:42	WG1746239
Cadmium	ND		0.546	1	09/27/2021 13:42	WG1746239
Chromium	44.5		1.09	1	09/27/2021 13:42	WG1746239
Cobalt	12.7		1.09	1	09/27/2021 13:42	WG1746239
Copper	32.6		2.18	1	09/27/2021 13:42	WG1746239
Lead	8.15		0.546	1	09/27/2021 13:42	WG1746239
Molybdenum	1.11		0.546	1	09/27/2021 13:42	WG1746239
Nickel	60.5		2.18	1	09/27/2021 13:42	WG1746239
Selenium	ND		2.18	1	09/27/2021 13:42	WG1746239
Silver	ND		1.09	1	09/27/2021 13:42	WG1746239
Thallium	ND		2.18	1	09/27/2021 13:42	WG1746239
Vanadium	47.7		2.18	1	09/27/2021 13:42	WG1746239
Zinc	66.8		5.46	1	09/27/2021 13:42	WG1746239

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPHG C5 - C12	ND		3.03	25	09/27/2021 08:08	WG1745990
(S) a,a,a-Trifluorotoluene(FID)	*91.4*		*77.0-120*		*09/27/2021 08:08*	WG1745990

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0546	1	09/25/2021 19:17	WG1746500
Acrylonitrile	ND		0.0109	1	09/25/2021 19:17	WG1746500
Benzene	ND		0.00109	1	09/25/2021 19:17	WG1746500
Bromobenzene	ND		0.00109	1	09/25/2021 19:17	WG1746500
Bromodichloromethane	ND		0.00109	1	09/25/2021 19:17	WG1746500
Bromoform	ND		0.00109	1	09/25/2021 19:17	WG1746500
Bromomethane	ND		0.00546	1	09/25/2021 19:17	WG1746500
n-Butylbenzene	ND		0.00109	1	09/25/2021 19:17	WG1746500
sec-Butylbenzene	ND		0.00109	1	09/25/2021 19:17	WG1746500
tert-Butylbenzene	ND		0.00109	1	09/25/2021 19:17	WG1746500
Carbon tetrachloride	ND		0.00109	1	09/25/2021 19:17	WG1746500
Carbon disulfide	ND		0.00109	1	09/25/2021 19:17	WG1746500
Chlorobenzene	ND		0.00109	1	09/25/2021 19:17	WG1746500
Chlorodibromomethane	ND		0.00109	1	09/25/2021 19:17	WG1746500
Chloroethane	ND		0.00546	1	09/25/2021 19:17	WG1746500
Chloroform	ND		0.00546	1	09/25/2021 19:17	WG1746500
Chloromethane	ND		0.00273	1	09/25/2021 19:17	WG1746500
2-Chlorotoluene	ND		0.00109	1	09/25/2021 19:17	WG1746500

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Chlorotoluene	ND		0.00109	1	09/25/2021 19:17	WG1746500
1,2-Dibromo-3-Chloropropane	ND		0.00546	1	09/25/2021 19:17	WG1746500
1,2-Dibromoethane	ND		0.00109	1	09/25/2021 19:17	WG1746500
Dibromomethane	ND		0.00109	1	09/25/2021 19:17	WG1746500
1,2-Dichlorobenzene	ND		0.00109	1	09/25/2021 19:17	WG1746500
1,3-Dichlorobenzene	ND		0.00109	1	09/25/2021 19:17	WG1746500
1,4-Dichlorobenzene	ND		0.00109	1	09/25/2021 19:17	WG1746500
Dichlorodifluoromethane	ND		0.00546	1	09/25/2021 19:17	WG1746500
1,1-Dichloroethane	ND		0.00109	1	09/25/2021 19:17	WG1746500
1,2-Dichloroethane	ND		0.00109	1	09/25/2021 19:17	WG1746500
1,1-Dichloroethene	ND		0.00109	1	09/25/2021 19:17	WG1746500
cis-1,2-Dichloroethene	ND		0.00109	1	09/25/2021 19:17	WG1746500
trans-1,2-Dichloroethene	ND		0.00109	1	09/25/2021 19:17	WG1746500
1,2-Dichloropropane	ND		0.00109	1	09/25/2021 19:17	WG1746500
1,1-Dichloropropene	ND		0.00109	1	09/25/2021 19:17	WG1746500
1,3-Dichloropropane	ND		0.00109	1	09/25/2021 19:17	WG1746500
cis-1,3-Dichloropropene	ND		0.00109	1	09/25/2021 19:17	WG1746500
trans-1,3-Dichloropropene	ND		0.00109	1	09/25/2021 19:17	WG1746500
2,2-Dichloropropane	ND		0.00109	1	09/25/2021 19:17	WG1746500
Ethylbenzene	ND		0.00109	1	09/25/2021 19:17	WG1746500
Hexachloro-1,3-butadiene	ND		0.00109	1	09/25/2021 19:17	WG1746500
Isopropylbenzene	ND		0.00109	1	09/25/2021 19:17	WG1746500
p-Isopropyltoluene	ND		0.00109	1	09/25/2021 19:17	WG1746500
2-Butanone (MEK)	ND		0.0109	1	09/25/2021 19:17	WG1746500
Methylene Chloride	ND		0.00546	1	09/25/2021 19:17	WG1746500
4-Methyl-2-pentanone (MIBK)	ND		0.0109	1	09/25/2021 19:17	WG1746500
Naphthalene	ND		0.00546	1	09/25/2021 19:17	WG1746500
n-Propylbenzene	ND		0.00109	1	09/25/2021 19:17	WG1746500
Styrene	ND		0.00109	1	09/25/2021 19:17	WG1746500
1,1,1,2-Tetrachloroethane	ND		0.00109	1	09/25/2021 19:17	WG1746500
1,1,2,2-Tetrachloroethane	ND		0.00109	1	09/25/2021 19:17	WG1746500
1,1,2-Trichlorotrifluoroethane	ND		0.00109	1	09/25/2021 19:17	WG1746500
Tetrachloroethene	ND		0.00109	1	09/25/2021 19:17	WG1746500
Toluene	ND		0.00546	1	09/25/2021 19:17	WG1746500
1,2,3-Trichlorobenzene	ND		0.00109	1	09/25/2021 19:17	WG1746500
1,2,4-Trichlorobenzene	ND		0.00109	1	09/25/2021 19:17	WG1746500
1,1,1-Trichloroethane	ND		0.00109	1	09/25/2021 19:17	WG1746500
1,1,2-Trichloroethane	ND		0.00109	1	09/25/2021 19:17	WG1746500
Trichloroethene	ND		0.00109	1	09/25/2021 19:17	WG1746500
Trichlorofluoromethane	ND		0.00546	1	09/25/2021 19:17	WG1746500
1,2,3-Trichloropropane	ND		0.00273	1	09/25/2021 19:17	WG1746500
1,2,4-Trimethylbenzene	ND		0.00109	1	09/25/2021 19:17	WG1746500
1,2,3-Trimethylbenzene	ND		0.00109	1	09/25/2021 19:17	WG1746500
1,3,5-Trimethylbenzene	ND		0.00109	1	09/25/2021 19:17	WG1746500
Vinyl chloride	ND		0.00109	1	09/25/2021 19:17	WG1746500
Xylenes, Total	ND		0.00328	1	09/25/2021 19:17	WG1746500
Di-isopropyl ether	ND		0.00109	1	09/25/2021 19:17	WG1746500
Ethanol	ND	J3	0.109	1	09/25/2021 19:17	WG1746500
Ethyl tert-butyl ether	ND		0.00109	1	09/25/2021 19:17	WG1746500
Methyl tert-butyl ether	ND		0.00109	1	09/25/2021 19:17	WG1746500
t-Amyl Alcohol	ND		0.0546	1	09/25/2021 19:17	WG1746500
tert-Butyl alcohol	ND		0.00546	1	09/25/2021 19:17	WG1746500
tert-Amyl Methyl Ether	ND		0.00109	1	09/25/2021 19:17	WG1746500
(S) Toluene-d8	*114*		*75.0-131*		*09/25/2021 19:17*	WG1746500
(S) 4-Bromofluorobenzene	*94.5*		*67.0-138*		*09/25/2021 19:17*	WG1746500
(S) 1,2-Dichloroethane-d4	*111*		*70.0-130*		*09/25/2021 19:17*	WG1746500

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	8.12		4.37	1	09/26/2021 10:34	WG1746182
C22-C32 Hydrocarbons	12.6		4.37	1	09/26/2021 10:34	WG1746182
C32-C40 Hydrocarbons	6.53		4.37	1	09/26/2021 10:34	WG1746182
(S) o-Terphenyl	*78.2*		*18.0-148*		*09/26/2021 10:34*	WG1746182

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.5		1	09/24/2021 12:32	WG1745599

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0751		0.0463	1	09/24/2021 17:19	WG1745976

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.31	1	09/27/2021 13:45	WG1746239
Arsenic	6.16		2.31	1	09/27/2021 13:45	WG1746239
Barium	206		0.578	1	09/27/2021 13:45	WG1746239
Beryllium	0.857		0.231	1	09/27/2021 13:45	WG1746239
Cadmium	ND		0.578	1	09/27/2021 13:45	WG1746239
Chromium	43.4		1.16	1	09/27/2021 13:45	WG1746239
Cobalt	13.1		1.16	1	09/27/2021 13:45	WG1746239
Copper	45.3		2.31	1	09/27/2021 13:45	WG1746239
Lead	10.3		0.578	1	09/27/2021 13:45	WG1746239
Molybdenum	0.824		0.578	1	09/27/2021 13:45	WG1746239
Nickel	65.4		2.31	1	09/27/2021 13:45	WG1746239
Selenium	ND		2.31	1	09/27/2021 13:45	WG1746239
Silver	ND		1.16	1	09/27/2021 13:45	WG1746239
Thallium	ND		2.31	1	09/27/2021 13:45	WG1746239
Vanadium	50.6		2.31	1	09/27/2021 13:45	WG1746239
Zinc	81.6		5.78	1	09/27/2021 13:45	WG1746239

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPHG C5 - C12	ND		3.45	25	09/27/2021 08:30	WG1745990
(S) a,a,a-Trifluorotoluene(FID)	*91.1*		*77.0-120*		*09/27/2021 08:30*	WG1745990

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0578	1	09/25/2021 19:39	WG1746500
Acrylonitrile	ND		0.0116	1	09/25/2021 19:39	WG1746500
Benzene	ND		0.00116	1	09/25/2021 19:39	WG1746500
Bromobenzene	ND		0.00116	1	09/25/2021 19:39	WG1746500
Bromodichloromethane	ND		0.00116	1	09/25/2021 19:39	WG1746500
Bromoform	ND		0.00116	1	09/25/2021 19:39	WG1746500
Bromomethane	ND		0.00578	1	09/25/2021 19:39	WG1746500
n-Butylbenzene	ND		0.00116	1	09/25/2021 19:39	WG1746500
sec-Butylbenzene	ND		0.00116	1	09/25/2021 19:39	WG1746500
tert-Butylbenzene	ND		0.00116	1	09/25/2021 19:39	WG1746500
Carbon tetrachloride	ND		0.00116	1	09/25/2021 19:39	WG1746500
Carbon disulfide	ND		0.00116	1	09/25/2021 19:39	WG1746500
Chlorobenzene	ND		0.00116	1	09/25/2021 19:39	WG1746500
Chlorodibromomethane	ND		0.00116	1	09/25/2021 19:39	WG1746500
Chloroethane	ND		0.00578	1	09/25/2021 19:39	WG1746500
Chloroform	ND		0.00578	1	09/25/2021 19:39	WG1746500
Chloromethane	ND		0.00289	1	09/25/2021 19:39	WG1746500
2-Chlorotoluene	ND		0.00116	1	09/25/2021 19:39	WG1746500

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Chlorotoluene	ND		0.00116	1	09/25/2021 19:39	WG1746500
1,2-Dibromo-3-Chloropropane	ND		0.00578	1	09/25/2021 19:39	WG1746500
1,2-Dibromoethane	ND		0.00116	1	09/25/2021 19:39	WG1746500
Dibromomethane	ND		0.00116	1	09/25/2021 19:39	WG1746500
1,2-Dichlorobenzene	ND		0.00116	1	09/25/2021 19:39	WG1746500
1,3-Dichlorobenzene	ND		0.00116	1	09/25/2021 19:39	WG1746500
1,4-Dichlorobenzene	ND		0.00116	1	09/25/2021 19:39	WG1746500
Dichlorodifluoromethane	ND		0.00578	1	09/25/2021 19:39	WG1746500
1,1-Dichloroethane	ND		0.00116	1	09/25/2021 19:39	WG1746500
1,2-Dichloroethane	ND		0.00116	1	09/25/2021 19:39	WG1746500
1,1-Dichloroethene	ND		0.00116	1	09/25/2021 19:39	WG1746500
cis-1,2-Dichloroethene	ND		0.00116	1	09/25/2021 19:39	WG1746500
trans-1,2-Dichloroethene	ND		0.00116	1	09/25/2021 19:39	WG1746500
1,2-Dichloropropane	ND		0.00116	1	09/25/2021 19:39	WG1746500
1,1-Dichloropropene	ND		0.00116	1	09/25/2021 19:39	WG1746500
1,3-Dichloropropane	ND		0.00116	1	09/25/2021 19:39	WG1746500
cis-1,3-Dichloropropene	ND		0.00116	1	09/25/2021 19:39	WG1746500
trans-1,3-Dichloropropene	ND		0.00116	1	09/25/2021 19:39	WG1746500
2,2-Dichloropropane	ND		0.00116	1	09/25/2021 19:39	WG1746500
Ethylbenzene	ND		0.00116	1	09/25/2021 19:39	WG1746500
Hexachloro-1,3-butadiene	ND		0.00116	1	09/25/2021 19:39	WG1746500
Isopropylbenzene	ND		0.00116	1	09/25/2021 19:39	WG1746500
p-Isopropyltoluene	ND		0.00116	1	09/25/2021 19:39	WG1746500
2-Butanone (MEK)	ND		0.0116	1	09/25/2021 19:39	WG1746500
Methylene Chloride	ND		0.00578	1	09/25/2021 19:39	WG1746500
4-Methyl-2-pentanone (MIBK)	ND		0.0116	1	09/25/2021 19:39	WG1746500
Naphthalene	ND		0.00578	1	09/25/2021 19:39	WG1746500
n-Propylbenzene	ND		0.00116	1	09/25/2021 19:39	WG1746500
Styrene	ND		0.00116	1	09/25/2021 19:39	WG1746500
1,1,1,2-Tetrachloroethane	ND		0.00116	1	09/25/2021 19:39	WG1746500
1,1,2,2-Tetrachloroethane	ND		0.00116	1	09/25/2021 19:39	WG1746500
1,1,2-Trichlorotrifluoroethane	ND		0.00116	1	09/25/2021 19:39	WG1746500
Tetrachloroethene	ND		0.00116	1	09/25/2021 19:39	WG1746500
Toluene	ND		0.00578	1	09/25/2021 19:39	WG1746500
1,2,3-Trichlorobenzene	ND		0.00116	1	09/25/2021 19:39	WG1746500
1,2,4-Trichlorobenzene	ND		0.00116	1	09/25/2021 19:39	WG1746500
1,1,1-Trichloroethane	ND		0.00116	1	09/25/2021 19:39	WG1746500
1,1,2-Trichloroethane	ND		0.00116	1	09/25/2021 19:39	WG1746500
Trichloroethene	ND		0.00116	1	09/25/2021 19:39	WG1746500
Trichlorofluoromethane	ND		0.00578	1	09/25/2021 19:39	WG1746500
1,2,3-Trichloropropane	ND		0.00289	1	09/25/2021 19:39	WG1746500
1,2,4-Trimethylbenzene	ND		0.00116	1	09/25/2021 19:39	WG1746500
1,2,3-Trimethylbenzene	ND		0.00116	1	09/25/2021 19:39	WG1746500
1,3,5-Trimethylbenzene	ND		0.00116	1	09/25/2021 19:39	WG1746500
Vinyl chloride	ND		0.00116	1	09/25/2021 19:39	WG1746500
Xylenes, Total	ND		0.00347	1	09/25/2021 19:39	WG1746500
Di-isopropyl ether	ND		0.00116	1	09/25/2021 19:39	WG1746500
Ethanol	ND	J3	0.116	1	09/25/2021 19:39	WG1746500
Ethyl tert-butyl ether	ND		0.00116	1	09/25/2021 19:39	WG1746500
Methyl tert-butyl ether	ND		0.00116	1	09/25/2021 19:39	WG1746500
t-Amyl Alcohol	ND		0.0578	1	09/25/2021 19:39	WG1746500
tert-Butyl alcohol	ND		0.00578	1	09/25/2021 19:39	WG1746500
tert-Amyl Methyl Ether	ND		0.00116	1	09/25/2021 19:39	WG1746500
(S) Toluene-d8	*111*		*75.0-131*		*09/25/2021 19:39*	WG1746500
(S) 4-Bromofluorobenzene	*94.8*		*67.0-138*		*09/25/2021 19:39*	WG1746500
(S) 1,2-Dichloroethane-d4	*114*		*70.0-130*		*09/25/2021 19:39*	WG1746500

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	ND		4.63	1	09/26/2021 08:37	WG1746182
C22-C32 Hydrocarbons	ND		4.63	1	09/26/2021 08:37	WG1746182
C32-C40 Hydrocarbons	ND		4.63	1	09/26/2021 08:37	WG1746182
(S) o-Terphenyl	*61.1*		*18.0-148*		*09/26/2021 08:37*	WG1746182

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.0		1	09/24/2021 12:32	WG1745599

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0526		0.0425	1	09/24/2021 17:21	WG1745976

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.13	1	09/27/2021 14:27	WG1746239
Arsenic	3.64		2.13	1	09/27/2021 14:27	WG1746239
Barium	161		0.532	1	09/27/2021 14:27	WG1746239
Beryllium	0.718		0.213	1	09/27/2021 14:27	WG1746239
Cadmium	ND		0.532	1	09/27/2021 14:27	WG1746239
Chromium	48.6		1.06	1	09/27/2021 14:27	WG1746239
Cobalt	11.0		1.06	1	09/27/2021 14:27	WG1746239
Copper	25.0		2.13	1	09/27/2021 14:27	WG1746239
Lead	7.16		0.532	1	09/27/2021 14:27	WG1746239
Molybdenum	0.802		0.532	1	09/27/2021 14:27	WG1746239
Nickel	62.8		2.13	1	09/27/2021 14:27	WG1746239
Selenium	ND		2.13	1	09/27/2021 14:27	WG1746239
Silver	ND		1.06	1	09/27/2021 14:27	WG1746239
Thallium	ND		2.13	1	09/27/2021 14:27	WG1746239
Vanadium	51.1		2.13	1	09/27/2021 14:27	WG1746239
Zinc	55.1		5.32	1	09/27/2021 14:27	WG1746239

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPHG C5 - C12	ND		2.84	25	09/27/2021 08:52	WG1745990
(S) a,a,a-Trifluorotoluene(FID)	*91.1*		*77.0-120*		*09/27/2021 08:52*	WG1745990

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0537	1.01	09/25/2021 20:00	WG1746500
Acrylonitrile	ND		0.0107	1.01	09/25/2021 20:00	WG1746500
Benzene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Bromobenzene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Bromodichloromethane	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Bromoform	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Bromomethane	ND		0.00537	1.01	09/25/2021 20:00	WG1746500
n-Butylbenzene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
sec-Butylbenzene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
tert-Butylbenzene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Carbon tetrachloride	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Carbon disulfide	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Chlorobenzene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Chlorodibromomethane	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Chloroethane	ND		0.00537	1.01	09/25/2021 20:00	WG1746500
Chloroform	ND		0.00537	1.01	09/25/2021 20:00	WG1746500
Chloromethane	ND		0.00269	1.01	09/25/2021 20:00	WG1746500
2-Chlorotoluene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Chlorotoluene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
1,2-Dibromo-3-Chloropropane	ND		0.00537	1.01	09/25/2021 20:00	WG1746500
1,2-Dibromoethane	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Dibromomethane	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
1,2-Dichlorobenzene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
1,3-Dichlorobenzene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
1,4-Dichlorobenzene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Dichlorodifluoromethane	ND		0.00537	1.01	09/25/2021 20:00	WG1746500
1,1-Dichloroethane	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
1,2-Dichloroethane	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
1,1-Dichloroethene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
cis-1,2-Dichloroethene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
trans-1,2-Dichloroethene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
1,2-Dichloropropane	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
1,1-Dichloropropene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
1,3-Dichloropropane	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
cis-1,3-Dichloropropene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
trans-1,3-Dichloropropene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
2,2-Dichloropropane	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Ethylbenzene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Hexachloro-1,3-butadiene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Isopropylbenzene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
p-Isopropyltoluene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
2-Butanone (MEK)	ND		0.0107	1.01	09/25/2021 20:00	WG1746500
Methylene Chloride	ND		0.00537	1.01	09/25/2021 20:00	WG1746500
4-Methyl-2-pentanone (MIBK)	ND		0.0107	1.01	09/25/2021 20:00	WG1746500
Naphthalene	ND		0.00537	1.01	09/25/2021 20:00	WG1746500
n-Propylbenzene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Styrene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
1,1,1,2-Tetrachloroethane	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
1,1,2,2-Tetrachloroethane	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
1,1,2-Trichlorotrifluoroethane	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Tetrachloroethene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Toluene	ND		0.00537	1.01	09/25/2021 20:00	WG1746500
1,2,3-Trichlorobenzene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
1,2,4-Trichlorobenzene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
1,1,1-Trichloroethane	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
1,1,2-Trichloroethane	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Trichloroethene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Trichlorofluoromethane	ND		0.00537	1.01	09/25/2021 20:00	WG1746500
1,2,3-Trichloropropane	ND		0.00269	1.01	09/25/2021 20:00	WG1746500
1,2,4-Trimethylbenzene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
1,2,3-Trimethylbenzene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
1,3,5-Trimethylbenzene	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Vinyl chloride	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Xylenes, Total	ND		0.00322	1.01	09/25/2021 20:00	WG1746500
Di-isopropyl ether	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Ethanol	ND	J3	0.107	1.01	09/25/2021 20:00	WG1746500
Ethyl tert-butyl ether	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
Methyl tert-butyl ether	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
t-Amyl Alcohol	ND		0.0537	1.01	09/25/2021 20:00	WG1746500
tert-Butyl alcohol	ND		0.00537	1.01	09/25/2021 20:00	WG1746500
tert-Amyl Methyl Ether	ND		0.00107	1.01	09/25/2021 20:00	WG1746500
(S) Toluene-d8	*112*		*75.0-131*		*09/25/2021 20:00*	WG1746500
(S) 4-Bromofluorobenzene	*97.3*		*67.0-138*		*09/25/2021 20:00*	WG1746500
(S) 1,2-Dichloroethane-d4	*112*		*70.0-130*		*09/25/2021 20:00*	WG1746500

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	ND		4.25	1	09/26/2021 11:07	WG1746182
C22-C32 Hydrocarbons	ND		4.25	1	09/26/2021 11:07	WG1746182
C32-C40 Hydrocarbons	ND		4.25	1	09/26/2021 11:07	WG1746182
(S) o-Terphenyl	*80.8*		*18.0-148*		*09/26/2021 11:07*	WG1746182

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3708631-1 09/24/21 12:32

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1405778-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1405778-03 09/24/21 12:32 • (DUP) R3708631-3 09/24/21 12:32

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	89.8	90.3	1	0.506		10

Laboratory Control Sample (LCS)

(LCS) R3708631-2 09/24/21 12:32

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3708568-1 09/24/21 15:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R3708568-2 09/24/21 15:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.501	100	80.0-120	

L1406697-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1406697-13 09/24/21 15:47 • (MS) R3708568-3 09/24/21 15:52 • (MSD) R3708568-4 09/24/21 15:54

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.697	ND	0.394	0.302	56.5	43.3	1	75.0-125	J6	J3 J6	26.5	20

Method Blank (MB)

(MB) R3709155-1 09/27/21 13:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Antimony	U		0.544	2.00
Arsenic	U		0.518	2.00
Barium	U		0.0852	0.500
Beryllium	U		0.0315	0.200
Cadmium	U		0.0471	0.500
Chromium	U		0.133	1.00
Cobalt	U		0.0811	1.00
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Molybdenum	U		0.109	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Thallium	U		0.394	2.00
Vanadium	U		0.506	2.00
Zinc	1.18	J	0.832	5.00

Laboratory Control Sample (LCS)

(LCS) R3709155-2 09/27/21 13:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	100	93.8	93.8	80.0-120	
Arsenic	100	94.9	94.9	80.0-120	
Barium	100	98.4	98.4	80.0-120	
Beryllium	100	95.2	95.2	80.0-120	
Cadmium	100	92.0	92.0	80.0-120	
Chromium	100	92.2	92.2	80.0-120	
Cobalt	100	97.1	97.1	80.0-120	
Copper	100	101	101	80.0-120	
Lead	100	99.0	99.0	80.0-120	
Molybdenum	100	98.9	98.9	80.0-120	
Nickel	100	97.3	97.3	80.0-120	
Selenium	100	94.2	94.2	80.0-120	
Silver	20.0	18.8	94.2	80.0-120	
Thallium	100	94.8	94.8	80.0-120	
Vanadium	100	93.5	93.5	80.0-120	
Zinc	100	96.8	96.8	80.0-120	

L1407620-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1407620-01 09/27/21 13:26 • (MS) R3709155-5 09/27/21 13:34 • (MSD) R3709155-6 09/27/21 13:36

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg				%	%		%			%	%
Antimony	100	ND	16.5	21.3	14.4	18.5	1	75.0-125	J6	J3 J6	25.1	20
Arsenic	100	ND	97.7	111	85.2	96.5	1	75.0-125			12.4	20
Barium	100	1060	192	287	0.000	0.000	1	75.0-125	V	J3 V	39.8	20
Beryllium	100	1.06	98.7	112	85.1	97.1	1	75.0-125			12.9	20
Cadmium	100	ND	94.2	107	82.2	93.2	1	75.0-125			12.5	20
Chromium	100	6.97	98.9	112	80.2	91.6	1	75.0-125			12.4	20
Cobalt	100	1.97	103	118	88.4	101	1	75.0-125			12.9	20
Copper	100	4.25	110	125	92.3	105	1	75.0-125			12.8	20
Lead	100	2.60	105	118	89.2	101	1	75.0-125			12.2	20
Molybdenum	100	ND	94.9	109	82.7	94.7	1	75.0-125			13.4	20
Nickel	100	5.24	106	120	88.1	101	1	75.0-125			12.5	20
Selenium	100	ND	97.7	110	85.3	96.0	1	75.0-125			11.9	20
Silver	20.0	ND	19.1	21.7	83.4	94.8	1	75.0-125			12.8	20
Thallium	100	ND	97.1	109	84.7	95.2	1	75.0-125			11.6	20
Vanadium	100	14.9	111	126	84.0	97.2	1	75.0-125			12.7	20
Zinc	100	20.9	117	131	84.3	96.5	1	75.0-125			11.3	20

Method Blank (MB)

(MB) R3708924-2 09/27/21 02:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C5 - C12	0.922	J	0.830	2.50
(S) a,a,a-Trifluorotoluene(FID)	*91.3*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3708924-1 09/27/21 00:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPHG C5 - C12	5.50	5.19	94.4	72.0-125	
(S) a,a,a-Trifluorotoluene(FID)			*112*	*77.0-120*	

Method Blank (MB)

(MB) R3708845-3 09/25/21 14:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0207	0.0500
Acrylonitrile	U		0.00202	0.0100
Benzene	U		0.000375	0.00100
Bromobenzene	U		0.000275	0.00100
Bromodichloromethane	U		0.000725	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00117	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon disulfide	U		0.000700	0.00100
Carbon tetrachloride	U		0.000248	0.00100
Chlorobenzene	U		0.000192	0.00100
Chlorodibromomethane	U		0.000224	0.00100
Chloroethane	U		0.00100	0.00500
Chloroform	U		0.00103	0.00500
Chloromethane	U		0.000650	0.00250
2-Chlorotoluene	U		0.000225	0.00100
4-Chlorotoluene	U		0.000691	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00190	0.00500
1,2-Dibromoethane	U		0.000250	0.00100
Dibromomethane	U		0.000350	0.00100
1,2-Dichlorobenzene	U		0.000425	0.00100
1,3-Dichlorobenzene	U		0.000600	0.00100
1,4-Dichlorobenzene	U		0.000830	0.00100
Dichlorodifluoromethane	U		0.000287	0.00500
1,1-Dichloroethane	U		0.000268	0.00100
1,2-Dichloroethane	U		0.000450	0.00100
1,1-Dichloroethene	U		0.000355	0.00100
cis-1,2-Dichloroethene	U		0.000475	0.00100
trans-1,2-Dichloroethene	U		0.000500	0.00100
1,2-Dichloropropane	U		0.000164	0.00100
1,1-Dichloropropene	U		0.000375	0.00100
1,3-Dichloropropane	U		0.000225	0.00100
cis-1,3-Dichloropropene	U		0.000425	0.00100
trans-1,3-Dichloropropene	U		0.000675	0.00100
2,2-Dichloropropane	U		0.000375	0.00100
Di-isopropyl ether	U		0.000221	0.00100
Ethanol	U		0.0490	0.100
Ethylbenzene	U		0.000300	0.00100

Method Blank (MB)

(MB) R3708845-3 09/25/21 14:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexachloro-1,3-butadiene	U		0.000342	0.00100
Isopropylbenzene	U		0.000425	0.00100
p-Isopropyltoluene	U		0.000204	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000950	0.0100
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00498	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000223	0.00100
1,1,1,2-Tetrachloroethane	U		0.000296	0.00100
1,1,2,2-Tetrachloroethane	U		0.000231	0.00100
Tetrachloroethene	U		0.000325	0.00100
Toluene	U		0.00123	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000426	0.00100
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000370	0.00100
1,1,2-Trichloroethane	U		0.000425	0.00100
Trichloroethene	U		0.000200	0.00100
Trichlorofluoromethane	U		0.000356	0.00500
1,2,3-Trichloropropane	U		0.000244	0.00250
1,2,3-Trimethylbenzene	U		0.000287	0.00100
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Vinyl chloride	U		0.000226	0.00100
Xylenes, Total	U		0.000500	0.00300
tert-Amyl Methyl Ether	U		0.000400	0.00100
Ethyl tert-butyl ether	U		0.000250	0.00100
tert-Butyl alcohol	U		0.00250	0.00500
t-Amyl Alcohol	U		0.00638	0.0500
(S) Toluene-d8	*112*			*75.0-131*
(S) 4-Bromofluorobenzene	*101*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3708845-1 09/25/21 13:51 • (LCSD) R3708845-2 09/25/21 14:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0980	0.106	78.4	84.8	10.0-160			7.84	31
Acrylonitrile	0.125	0.0950	0.0952	76.0	76.2	45.0-153			0.210	22
Benzene	0.0250	0.0242	0.0262	96.8	105	70.0-123			7.94	20
Bromobenzene	0.0250	0.0214	0.0230	85.6	92.0	73.0-121			7.21	20
Bromodichloromethane	0.0250	0.0222	0.0244	88.8	97.6	73.0-121			9.44	20
Bromoform	0.0250	0.0212	0.0239	84.8	95.6	64.0-132			12.0	20
Bromomethane	0.0250	0.0271	0.0297	108	119	56.0-147			9.15	20
n-Butylbenzene	0.0250	0.0263	0.0285	105	114	68.0-135			8.03	20
sec-Butylbenzene	0.0250	0.0258	0.0276	103	110	74.0-130			6.74	20
tert-Butylbenzene	0.0250	0.0252	0.0271	101	108	75.0-127			7.27	20
Carbon disulfide	0.0250	0.0249	0.0278	99.6	111	56.0-133			11.0	20
Carbon tetrachloride	0.0250	0.0278	0.0309	111	124	66.0-128			10.6	20
Chlorobenzene	0.0250	0.0247	0.0266	98.8	106	76.0-128			7.41	20
Chlorodibromomethane	0.0250	0.0223	0.0243	89.2	97.2	74.0-127			8.58	20
Chloroethane	0.0250	0.0268	0.0296	107	118	61.0-134			9.93	20
Chloroform	0.0250	0.0238	0.0262	95.2	105	72.0-123			9.60	20
Chloromethane	0.0250	0.0279	0.0268	112	107	51.0-138			4.02	20
2-Chlorotoluene	0.0250	0.0244	0.0261	97.6	104	75.0-124			6.73	20
4-Chlorotoluene	0.0250	0.0244	0.0260	97.6	104	75.0-124			6.35	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0210	0.0234	84.0	93.6	59.0-130			10.8	20
1,2-Dibromoethane	0.0250	0.0220	0.0233	88.0	93.2	74.0-128			5.74	20
Dibromomethane	0.0250	0.0205	0.0227	82.0	90.8	75.0-122			10.2	20
1,2-Dichlorobenzene	0.0250	0.0227	0.0250	90.8	100	76.0-124			9.64	20
1,3-Dichlorobenzene	0.0250	0.0253	0.0270	101	108	76.0-125			6.50	20
1,4-Dichlorobenzene	0.0250	0.0241	0.0259	96.4	104	77.0-121			7.20	20
Dichlorodifluoromethane	0.0250	0.0273	0.0313	109	125	43.0-156			13.7	20
1,1-Dichloroethane	0.0250	0.0247	0.0270	98.8	108	70.0-127			8.90	20
1,2-Dichloroethane	0.0250	0.0206	0.0225	82.4	90.0	65.0-131			8.82	20
1,1-Dichloroethene	0.0250	0.0264	0.0292	106	117	65.0-131			10.1	20
cis-1,2-Dichloroethene	0.0250	0.0244	0.0265	97.6	106	73.0-125			8.25	20
trans-1,2-Dichloroethene	0.0250	0.0256	0.0276	102	110	71.0-125			7.52	20
1,2-Dichloropropane	0.0250	0.0232	0.0251	92.8	100	74.0-125			7.87	20
1,1-Dichloropropene	0.0250	0.0264	0.0284	106	114	73.0-125			7.30	20
1,3-Dichloropropane	0.0250	0.0216	0.0233	86.4	93.2	80.0-125			7.57	20
cis-1,3-Dichloropropene	0.0250	0.0231	0.0245	92.4	98.0	76.0-127			5.88	20
trans-1,3-Dichloropropene	0.0250	0.0205	0.0215	82.0	86.0	73.0-127			4.76	20
2,2-Dichloropropane	0.0250	0.0276	0.0293	110	117	59.0-135			5.98	20
Di-isopropyl ether	0.0250	0.0226	0.0249	90.4	99.6	60.0-136			9.68	20
Ethylbenzene	0.0250	0.0254	0.0277	102	111	74.0-126			8.66	20
Hexachloro-1,3-butadiene	0.0250	0.0265	0.0293	106	117	57.0-150			10.0	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3708845-1 09/25/21 13:51 • (LCSD) R3708845-2 09/25/21 14:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Isopropylbenzene	0.0250	0.0259	0.0284	104	114	72.0-127			9.21	20
p-Isopropyltoluene	0.0250	0.0258	0.0280	103	112	72.0-133			8.18	20
2-Butanone (MEK)	0.125	0.0901	0.0954	72.1	76.3	30.0-160			5.71	24
Methylene Chloride	0.0250	0.0223	0.0247	89.2	98.8	68.0-123			10.2	20
4-Methyl-2-pentanone (MIBK)	0.125	0.104	0.113	83.2	90.4	56.0-143			8.29	20
Methyl tert-butyl ether	0.0250	0.0217	0.0230	86.8	92.0	66.0-132			5.82	20
Naphthalene	0.0250	0.0207	0.0227	82.8	90.8	59.0-130			9.22	20
n-Propylbenzene	0.0250	0.0249	0.0266	99.6	106	74.0-126			6.60	20
Styrene	0.0250	0.0247	0.0270	98.8	108	72.0-127			8.90	20
1,1,1,2-Tetrachloroethane	0.0250	0.0237	0.0264	94.8	106	74.0-129			10.8	20
1,1,2,2-Tetrachloroethane	0.0250	0.0186	0.0199	74.4	79.6	68.0-128			6.75	20
Tetrachloroethene	0.0250	0.0255	0.0269	102	108	70.0-136			5.34	20
Toluene	0.0250	0.0247	0.0262	98.8	105	75.0-121			5.89	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0272	0.0303	109	121	61.0-139			10.8	20
1,2,3-Trichlorobenzene	0.0250	0.0226	0.0248	90.4	99.2	59.0-139			9.28	20
1,2,4-Trichlorobenzene	0.0250	0.0247	0.0269	98.8	108	62.0-137			8.53	20
1,1,1-Trichloroethane	0.0250	0.0267	0.0296	107	118	69.0-126			10.3	20
1,1,2-Trichloroethane	0.0250	0.0214	0.0228	85.6	91.2	78.0-123			6.33	20
Trichloroethene	0.0250	0.0259	0.0282	104	113	76.0-126			8.50	20
Trichlorofluoromethane	0.0250	0.0286	0.0309	114	124	61.0-142			7.73	20
1,2,3-Trichloropropane	0.0250	0.0194	0.0205	77.6	82.0	67.0-129			5.51	20
1,2,3-Trimethylbenzene	0.0250	0.0233	0.0256	93.2	102	74.0-124			9.41	20
1,2,4-Trimethylbenzene	0.0250	0.0239	0.0256	95.6	102	70.0-126			6.87	20
1,3,5-Trimethylbenzene	0.0250	0.0247	0.0268	98.8	107	73.0-127			8.16	20
Vinyl chloride	0.0250	0.0271	0.0297	108	119	63.0-134			9.15	20
Xylenes, Total	0.0750	0.0754	0.0825	101	110	72.0-127			8.99	20
t-Amyl Alcohol	0.125	0.144	0.111	115	88.8	26.0-160			25.9	30
tert-Amyl Methyl Ether	0.0250	0.0243	0.0220	97.2	88.0	66.0-135			9.94	20
Ethyl tert-butyl ether	0.0250	0.0241	0.0230	96.4	92.0	68.0-140			4.67	20
ethanol	1.25	0.812	1.20	65.0	96.0	10.0-160		J3	38.6	33
tert-Butyl alcohol	0.125	0.103	0.101	82.4	80.8	15.0-160			1.96	33
(S) Toluene-d8				*114*	*112*	*75.0-131*				
(S) 4-Bromofluorobenzene				*105*	*109*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*115*	*116*	*70.0-130*				

Method Blank (MB)

(MB) R3708903-1 09/26/21 06:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C12-C22 Hydrocarbons	U		0.733	4.00
C22-C32 Hydrocarbons	U		1.33	4.00
C32-C40 Hydrocarbons	U		1.33	4.00
(S) o-Terphenyl	*81.8*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3708903-2 09/26/21 07:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C22-C32 Hydrocarbons	25.0	19.8	79.2	50.0-150	
C12-C22 Hydrocarbons	25.0	21.0	84.0	50.0-150	
(S) o-Terphenyl			*83.8*	*18.0-148*	

L1405135-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1405135-16 09/26/21 09:27 • (MS) R3708903-3 09/26/21 09:44 • (MSD) R3708903-4 09/26/21 10:01

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C22-C32 Hydrocarbons	29.9	ND	24.0	25.0	66.5	71.2	1	50.0-150			3.98	20
C12-C22 Hydrocarbons	29.9	ND	24.3	24.6	77.4	79.9	1	50.0-150			0.995	20
(S) o-Terphenyl					*75.8*	*80.1*		*18.0-148*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Kleinfelder - Laguna Hills, CA
24411 Ridge Route Dr
Suite 225
Laguna Hills, CA 92653

Billing Information:
Project Manager- Paolo Dizon
24411 Ridge Route Dr
Suite 225
Laguna Hills, CA 92653

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace Analytical®

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Report to: Project Manager
Email To: @kleinfelder.com

Project Description: Costco Westgate W.
City/State Collected: San Jose, CA
Please Circle: PT MT CT ET

Phone: 949-727-4466
Client Project #
Lab Project #: KLEINICA-SANJOSE

SDG # 1405817
G052

Collected by (print): Brandon Connelly
Site/Facility ID #
P.O. #

Collected by (signature): [signature]
Immediately Packed on Ice N___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #
Date Results Needed

Acctnum: KLEINICA
Template: T194931
Prelogin: P873871
PM: 110 - Brian Ford
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CAM17 Metals 8ozClr-NoPres	DRO/ORO-CA 8ozClr-NoPres	GRO-CA 40ml/NaHSO4/Syr/MeOH	VOCs+OXYs 8260 2ozClr-NoPres	VOCs+OXYs 8260 40ml/NaHSO4/Syr/MeOH					Remarks	Sample # (lab only)
KUP-14-2.5	G	SS	2.5	9-17-21	1035	2										Hold + Freeze	-01
KUP-14-5	↓	SS	5	↓	1100	5	X	X	X	X	X						-02
KUP-14-10		SS	10		1105	1										Hold + Freeze	-03
KUP-14-15		SS	15		1110	1										↓	-04
KUP-13-2.5		↓	2.5		0845	2										↓	-05
KUP-13-5			5		0915	5	X	X	X	X	X						-06
KUP-13-10			10		0920	1										Hold + Freeze	-07
KUP-13-15			15		0930	1										↓	-08
KUP-12-2.5			2.5		1300	5	X	X	X	X	X						-09
KUP-12-5	↓	↓	5	↓	1330	1										Hold + Freeze	-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other________

Remarks:

pH ______ Temp ______
Flow ______ Other ______

Samples returned via:
__ UPS ✓ FedEx __ Courier ________

Tracking # 516377211050

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No 2 HCL / MeoH TBR	
[signature]	9-17-21	1515			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: A1 Ta °C 4.4+0=4.4 Bottles Received: 38	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]	Date: 9/18/21 Time: 0945	Hold: Condition: NCF / OK

Company Name/Address:
Kleinfelder - Laguna Hills, CA

24411 Ridge Route Dr
Suite 225
Laguna Hills. CA 92653

Billing Information:
Project Manager- Paolo Dizon
24411 Ridge Route Dr
Suite 225
Laguna Hills, CA 92653

Pres Chk

Report to:
Project Manager

Email To: **@kleinfelder.com**

Project Description: Costco Westgate W.

City/State Collected: San Jose, CA

Please Circle: PT MT CT ET

Phone: **949-727-4466**

Client Project #

Lab Project #
KLEINICA-SANJOSE

Collected by (print): Brandon Connelly

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CAM17 Metals 8ozClr-NoPres	DRO/ORO-CA 8ozClr-NoPres	GRO-CA 40ml/NaHSO4/Syr/MeOH	VOCs+OXYs 8260 2ozClr-NoPres	VOCs+OXYs 8260 40ml/NaHSO4/Syr/MeOH	Remarks	Sample # (lab only)
KUP-12-10	G	SS	10	9-17-21	1335	1						Hold + Freeze	-11
KUP-12-15		SS	15		13-10	1							-12
KUP-11-2.5		SS	2.5		1325	2							-13
KUP-11-5		SS	5		1410	1							-14
KUP-11-10		SS	10		1415	5	X	X	X	X	X		-15
KUP-11-15		SS	15		1420	1						Hold + Freeze	-16
TB-210917		~~WQSS~~	-		0800	2						Hold	-17
		~~SS~~											
		SS											
		SS								9-17-21			

Chain of Custody Page 2 of 2

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SDG # 140S817

Table #

Acctnum: **KLEINICA**
Template: **T194931**
Prelogin: **P872696**
PM: **110 - Brian Ford**
PB:

Shipped Via:

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water WQ-QC H_2O
OT - Other_____

Remarks:
Hold and Freeze Samples on hold.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS X FedEx X Courier _____

Tracking # 5163 7721 1050

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: X Y __N
Bottles arrive intact: X Y __N
Correct bottles used: X Y __N
Sufficient volume sent: X Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: X Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeOH TBR	If preservation required by Login: Date/Time
	9-17-21	1515		2 G	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.1°C 4.4°C 4.4 Bottles Received: 38	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/18/21 Time: 0945	Hold: Condition: NCF / OK

ANALYTICAL REPORT

October 05, 2021

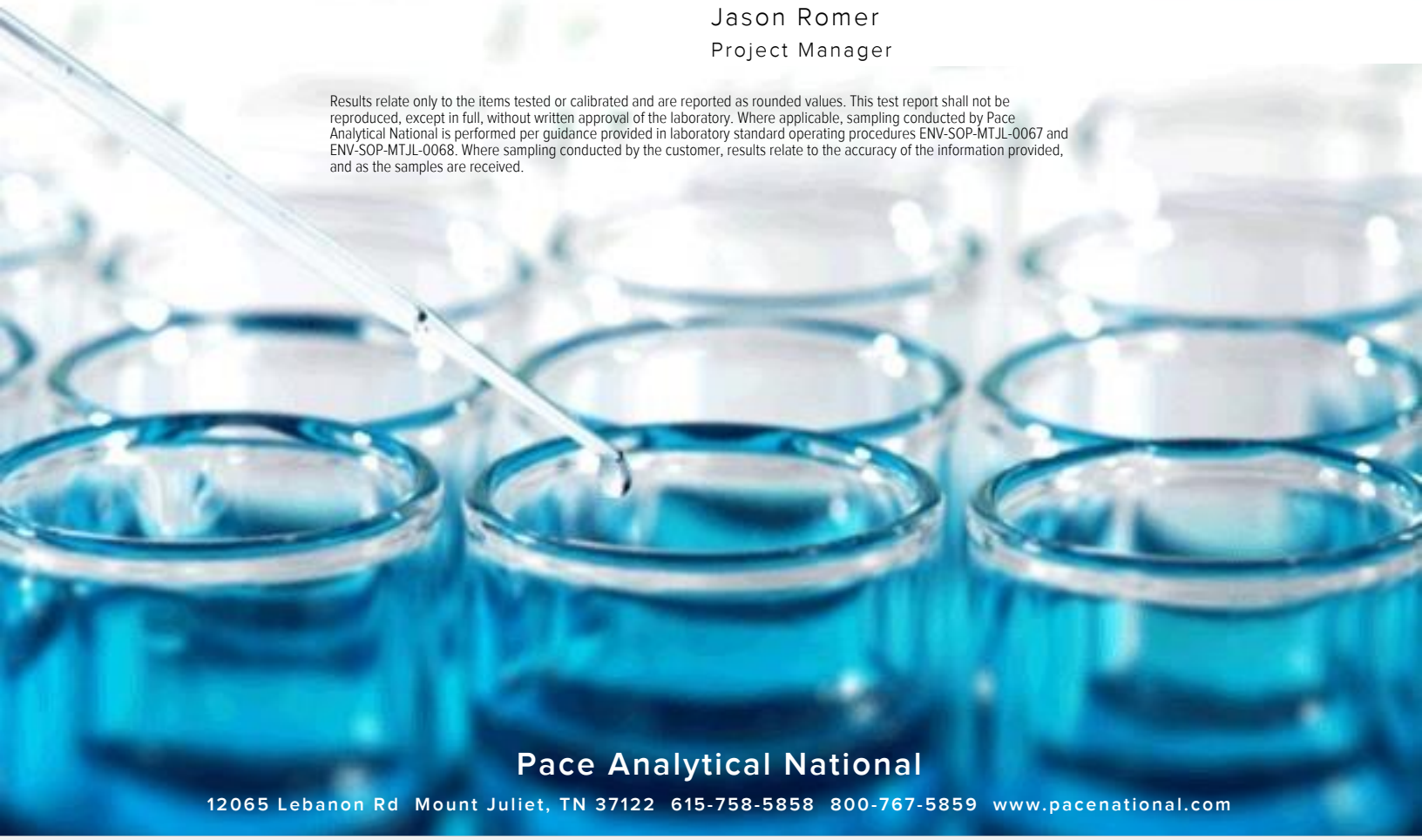
Kleinfelder - Laguna Hills, CA

Sample Delivery Group:	L1408063
Samples Received:	09/23/2021
Project Number:	20221076.001A
Description:	

Report To: Brandon Connelly
24411 Ridge Route Dr
Suite 225
Laguna Hills, CA 92653

Entire Report Reviewed By:

Jason Romer
Project Manager



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KVP-10-15 L1408063-04 Solid

Collected by: Brandon Connelly | Collected date/time: 09/22/21 09:15 | Received date/time: 09/23/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1747743	1	09/29/21 08:10	09/29/21 08:20	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1747757	1	09/28/21 18:05	09/29/21 09:30	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1747527	1	09/28/21 11:03	09/28/21 21:48	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1748298	25	09/22/21 09:15	09/30/21 03:05	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1749997	1	09/22/21 09:15	10/01/21 19:43	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750995	1	09/22/21 09:15	10/04/21 15:46	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1749660	1	10/01/21 02:05	10/01/21 10:28	JDG	Mt. Juliet, TN

KVP-6-10 L1408063-07 Solid

Collected by: Brandon Connelly | Collected date/time: 09/22/21 10:05 | Received date/time: 09/23/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1747743	1	09/29/21 08:10	09/29/21 08:20	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1748049	1	09/28/21 17:57	09/29/21 10:36	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1747527	1	09/28/21 11:03	09/28/21 21:51	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1748298	25	09/22/21 10:05	09/30/21 04:58	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1749997	1	09/22/21 10:05	10/01/21 20:23	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750995	1	09/22/21 10:05	10/04/21 16:07	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1749660	1	10/01/21 02:05	10/01/21 10:44	JDG	Mt. Juliet, TN

KVP-5-15 L1408063-12 Solid

Collected by: Brandon Connelly | Collected date/time: 09/22/21 11:00 | Received date/time: 09/23/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1747743	1	09/29/21 08:10	09/29/21 08:20	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1747648	1	09/28/21 10:05	09/28/21 16:59	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1747527	1	09/28/21 11:03	09/28/21 21:59	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1748298	25	09/22/21 11:00	09/30/21 05:20	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1749997	1	09/22/21 11:00	10/01/21 20:44	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750995	1	09/22/21 11:00	10/04/21 16:29	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1749660	1	10/01/21 02:05	10/01/21 11:01	JDG	Mt. Juliet, TN

KVP-3-2.5 L1408063-13 Solid

Collected by: Brandon Connelly | Collected date/time: 09/22/21 10:45 | Received date/time: 09/23/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1747743	1	09/29/21 08:10	09/29/21 08:20	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1747648	1	09/28/21 10:05	09/28/21 17:01	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1747527	1	09/28/21 11:03	09/28/21 22:01	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1748298	25	09/22/21 10:45	09/30/21 05:42	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750403	1	09/22/21 10:45	10/03/21 19:05	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1749660	1	10/01/21 02:05	10/01/21 12:25	JDG	Mt. Juliet, TN

KVP-9-2.5 L1408063-17 Solid

Collected by: Brandon Connelly | Collected date/time: 09/22/21 11:05 | Received date/time: 09/23/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1747743	1	09/29/21 08:10	09/29/21 08:20	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1748049	1	09/28/21 17:57	09/29/21 10:38	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1747527	1	09/28/21 11:03	09/28/21 22:04	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1748298	25	09/22/21 11:05	09/30/21 06:04	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750403	1	09/22/21 11:05	10/03/21 19:27	JHH	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

KVP-9-2.5 L1408063-17 Solid

Collected by: Brandon Connelly | Collected date/time: 09/22/21 11:05 | Received date/time: 09/23/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1749660	1	10/01/21 02:05	10/01/21 12:59	JDG	Mt. Juliet, TN

KVP-4-2.5 L1408063-21 Solid

Collected by: Brandon Connelly | Collected date/time: 09/22/21 10:25 | Received date/time: 09/23/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1747743	1	09/29/21 08:10	09/29/21 08:20	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1748049	1	09/28/21 17:57	09/29/21 10:41	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1747527	1	09/28/21 11:03	09/28/21 22:07	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1748298	25	09/22/21 10:25	09/30/21 06:26	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750403	1	09/22/21 10:25	10/03/21 19:49	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1749660	1	10/01/21 02:05	10/01/21 11:52	JDG	Mt. Juliet, TN

KVP-8-2.5 L1408063-25 Solid

Collected by: Brandon Connelly | Collected date/time: 09/22/21 11:30 | Received date/time: 09/23/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1747743	1	09/29/21 08:10	09/29/21 08:20	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1748049	1	09/28/21 17:57	09/29/21 10:49	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1747527	1	09/28/21 11:03	09/28/21 22:10	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1748298	25	09/22/21 11:30	09/30/21 06:48	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750403	1	09/22/21 11:30	10/03/21 20:11	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1749660	1	10/01/21 02:05	10/01/21 12:08	JDG	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.2		1	09/29/2021 08:20	WG1747743

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0539		0.0425	1	09/29/2021 09:30	WG1747757

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.12	1	09/28/2021 21:48	WG1747527
Arsenic	4.31		2.12	1	09/28/2021 21:48	WG1747527
Barium	157		0.531	1	09/28/2021 21:48	WG1747527
Beryllium	0.590		0.212	1	09/28/2021 21:48	WG1747527
Cadmium	ND		0.531	1	09/28/2021 21:48	WG1747527
Chromium	33.8		1.06	1	09/28/2021 21:48	WG1747527
Cobalt	11.2		1.06	1	09/28/2021 21:48	WG1747527
Copper	25.3		2.12	1	09/28/2021 21:48	WG1747527
Lead	8.71		0.531	1	09/28/2021 21:48	WG1747527
Molybdenum	0.800		0.531	1	09/28/2021 21:48	WG1747527
Nickel	50.4		2.12	1	09/28/2021 21:48	WG1747527
Selenium	ND		2.12	1	09/28/2021 21:48	WG1747527
Silver	ND		1.06	1	09/28/2021 21:48	WG1747527
Thallium	ND		2.12	1	09/28/2021 21:48	WG1747527
Vanadium	33.8		2.12	1	09/28/2021 21:48	WG1747527
Zinc	50.3		5.31	1	09/28/2021 21:48	WG1747527

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPHG C5 - C12	ND		2.84	25	09/30/2021 03:05	WG1748298
(S) a,a,a-Trifluorotoluene(FID)	*94.3*		*77.0-120*		*09/30/2021 03:05*	WG1748298

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0531	1	10/01/2021 19:43	WG1749997
Acrylonitrile	ND		0.0106	1	10/01/2021 19:43	WG1749997
Benzene	ND		0.00106	1	10/01/2021 19:43	WG1749997
Bromobenzene	ND		0.00106	1	10/01/2021 19:43	WG1749997
Bromodichloromethane	ND		0.00106	1	10/01/2021 19:43	WG1749997
Bromoform	ND		0.00106	1	10/01/2021 19:43	WG1749997
Bromomethane	ND		0.00531	1	10/01/2021 19:43	WG1749997
n-Butylbenzene	ND		0.00106	1	10/01/2021 19:43	WG1749997
sec-Butylbenzene	ND		0.00106	1	10/01/2021 19:43	WG1749997
tert-Butylbenzene	ND		0.00106	1	10/01/2021 19:43	WG1749997
Carbon tetrachloride	ND		0.00106	1	10/01/2021 19:43	WG1749997
Carbon disulfide	ND		0.00106	1	10/01/2021 19:43	WG1749997
Chlorobenzene	ND		0.00106	1	10/01/2021 19:43	WG1749997
Chlorodibromomethane	ND		0.00106	1	10/01/2021 19:43	WG1749997
Chloroethane	ND		0.00531	1	10/01/2021 19:43	WG1749997
Chloroform	ND		0.00531	1	10/01/2021 19:43	WG1749997
Chloromethane	ND		0.00265	1	10/01/2021 19:43	WG1749997
2-Chlorotoluene	ND		0.00106	1	10/01/2021 19:43	WG1749997

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Chlorotoluene	ND		0.00106	1	10/01/2021 19:43	WG1749997
1,2-Dibromo-3-Chloropropane	ND		0.00531	1	10/01/2021 19:43	WG1749997
1,2-Dibromoethane	ND		0.00106	1	10/01/2021 19:43	WG1749997
Dibromomethane	ND		0.00106	1	10/01/2021 19:43	WG1749997
1,2-Dichlorobenzene	ND		0.00106	1	10/01/2021 19:43	WG1749997
1,3-Dichlorobenzene	ND		0.00106	1	10/01/2021 19:43	WG1749997
1,4-Dichlorobenzene	ND		0.00106	1	10/01/2021 19:43	WG1749997
Dichlorodifluoromethane	ND		0.00531	1	10/01/2021 19:43	WG1749997
1,1-Dichloroethane	ND		0.00106	1	10/01/2021 19:43	WG1749997
1,2-Dichloroethane	ND		0.00106	1	10/01/2021 19:43	WG1749997
1,1-Dichloroethene	ND		0.00106	1	10/01/2021 19:43	WG1749997
cis-1,2-Dichloroethene	ND		0.00106	1	10/01/2021 19:43	WG1749997
trans-1,2-Dichloroethene	ND		0.00106	1	10/01/2021 19:43	WG1749997
1,2-Dichloropropane	ND		0.00106	1	10/01/2021 19:43	WG1749997
1,1-Dichloropropene	ND		0.00106	1	10/01/2021 19:43	WG1749997
1,3-Dichloropropane	ND		0.00106	1	10/01/2021 19:43	WG1749997
cis-1,3-Dichloropropene	ND		0.00106	1	10/01/2021 19:43	WG1749997
trans-1,3-Dichloropropene	ND		0.00106	1	10/01/2021 19:43	WG1749997
2,2-Dichloropropane	ND		0.00106	1	10/01/2021 19:43	WG1749997
Ethylbenzene	ND		0.00106	1	10/01/2021 19:43	WG1749997
Hexachloro-1,3-butadiene	ND		0.00106	1	10/01/2021 19:43	WG1749997
Isopropylbenzene	ND		0.00106	1	10/01/2021 19:43	WG1749997
p-Isopropyltoluene	ND		0.00106	1	10/01/2021 19:43	WG1749997
2-Butanone (MEK)	ND		0.0106	1	10/01/2021 19:43	WG1749997
Methylene Chloride	ND		0.00531	1	10/01/2021 19:43	WG1749997
4-Methyl-2-pentanone (MIBK)	ND		0.0106	1	10/01/2021 19:43	WG1749997
Naphthalene	ND		0.00531	1	10/01/2021 19:43	WG1749997
n-Propylbenzene	ND		0.00106	1	10/01/2021 19:43	WG1749997
Styrene	ND		0.00106	1	10/01/2021 19:43	WG1749997
1,1,1,2-Tetrachloroethane	ND		0.00106	1	10/01/2021 19:43	WG1749997
1,1,2,2-Tetrachloroethane	ND		0.00106	1	10/01/2021 19:43	WG1749997
1,1,2-Trichlorotrifluoroethane	ND		0.00106	1	10/01/2021 19:43	WG1749997
Tetrachloroethene	ND		0.00106	1	10/01/2021 19:43	WG1749997
Toluene	ND		0.00531	1	10/01/2021 19:43	WG1749997
1,2,3-Trichlorobenzene	ND		0.00106	1	10/01/2021 19:43	WG1749997
1,2,4-Trichlorobenzene	ND		0.00106	1	10/01/2021 19:43	WG1749997
1,1,1-Trichloroethane	ND		0.00106	1	10/01/2021 19:43	WG1749997
1,1,2-Trichloroethane	ND		0.00106	1	10/01/2021 19:43	WG1749997
Trichloroethene	ND		0.00106	1	10/01/2021 19:43	WG1749997
Trichlorofluoromethane	ND		0.00531	1	10/04/2021 15:46	WG1750995
1,2,3-Trichloropropane	ND		0.00265	1	10/01/2021 19:43	WG1749997
1,2,4-Trimethylbenzene	ND		0.00106	1	10/01/2021 19:43	WG1749997
1,2,3-Trimethylbenzene	ND		0.00106	1	10/01/2021 19:43	WG1749997
1,3,5-Trimethylbenzene	ND		0.00106	1	10/01/2021 19:43	WG1749997
Vinyl chloride	ND		0.00106	1	10/01/2021 19:43	WG1749997
Xylenes, Total	ND		0.00318	1	10/01/2021 19:43	WG1749997
Di-isopropyl ether	ND		0.00106	1	10/01/2021 19:43	WG1749997
Ethanol	ND		0.106	1	10/01/2021 19:43	WG1749997
Ethyl tert-butyl ether	ND		0.00106	1	10/01/2021 19:43	WG1749997
Methyl tert-butyl ether	ND		0.00106	1	10/01/2021 19:43	WG1749997
t-Amyl Alcohol	ND		0.0531	1	10/01/2021 19:43	WG1749997
tert-Butyl alcohol	ND		0.00531	1	10/01/2021 19:43	WG1749997
tert-Amyl Methyl Ether	ND		0.00106	1	10/01/2021 19:43	WG1749997
(S) Toluene-d8	*114*		*75.0-131*		*10/01/2021 19:43*	WG1749997
(S) Toluene-d8	*120*		*75.0-131*		*10/04/2021 15:46*	WG1750995
(S) 4-Bromofluorobenzene	*108*		*67.0-138*		*10/01/2021 19:43*	WG1749997

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*102*		*67.0-138*		*10/04/2021 15:46*	WG1750995
(S) 1,2-Dichloroethane-d4	*111*		*70.0-130*		*10/01/2021 19:43*	WG1749997
(S) 1,2-Dichloroethane-d4	*108*		*70.0-130*		*10/04/2021 15:46*	WG1750995

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	ND		4.25	1	10/01/2021 10:28	WG1749660
C22-C32 Hydrocarbons	ND		4.25	1	10/01/2021 10:28	WG1749660
C32-C40 Hydrocarbons	ND		4.25	1	10/01/2021 10:28	WG1749660
(S) o-Terphenyl	*73.6*		*18.0-148*		*10/01/2021 10:28*	WG1749660

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.6		1	09/29/2021 08:20	WG1747743

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0483		0.0437	1	09/29/2021 10:36	WG1748049

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.18	1	09/28/2021 21:51	WG1747527
Arsenic	4.30		2.18	1	09/28/2021 21:51	WG1747527
Barium	146		0.546	1	09/28/2021 21:51	WG1747527
Beryllium	0.583		0.218	1	09/28/2021 21:51	WG1747527
Cadmium	ND		0.546	1	09/28/2021 21:51	WG1747527
Chromium	34.3		1.09	1	09/28/2021 21:51	WG1747527
Cobalt	12.6		1.09	1	09/28/2021 21:51	WG1747527
Copper	25.9		2.18	1	09/28/2021 21:51	WG1747527
Lead	9.19		0.546	1	09/28/2021 21:51	WG1747527
Molybdenum	0.666		0.546	1	09/28/2021 21:51	WG1747527
Nickel	62.2		2.18	1	09/28/2021 21:51	WG1747527
Selenium	ND		2.18	1	09/28/2021 21:51	WG1747527
Silver	ND		1.09	1	09/28/2021 21:51	WG1747527
Thallium	ND		2.18	1	09/28/2021 21:51	WG1747527
Vanadium	34.6		2.18	1	09/28/2021 21:51	WG1747527
Zinc	50.5		5.46	1	09/28/2021 21:51	WG1747527

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPHG C5 - C12	ND		3.03	25	09/30/2021 04:58	WG1748298
(S) a,a,a-Trifluorotoluene(FID)	*91.1*		*77.0-120*		*09/30/2021 04:58*	WG1748298

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0546	1	10/01/2021 20:23	WG1749997
Acrylonitrile	ND		0.0109	1	10/01/2021 20:23	WG1749997
Benzene	ND		0.00109	1	10/01/2021 20:23	WG1749997
Bromobenzene	ND		0.00109	1	10/01/2021 20:23	WG1749997
Bromodichloromethane	ND		0.00109	1	10/01/2021 20:23	WG1749997
Bromoform	ND		0.00109	1	10/01/2021 20:23	WG1749997
Bromomethane	ND		0.00546	1	10/01/2021 20:23	WG1749997
n-Butylbenzene	ND		0.00109	1	10/01/2021 20:23	WG1749997
sec-Butylbenzene	ND		0.00109	1	10/01/2021 20:23	WG1749997
tert-Butylbenzene	ND		0.00109	1	10/01/2021 20:23	WG1749997
Carbon tetrachloride	ND		0.00109	1	10/01/2021 20:23	WG1749997
Carbon disulfide	ND		0.00109	1	10/01/2021 20:23	WG1749997
Chlorobenzene	ND		0.00109	1	10/01/2021 20:23	WG1749997
Chlorodibromomethane	ND		0.00109	1	10/01/2021 20:23	WG1749997
Chloroethane	ND		0.00546	1	10/01/2021 20:23	WG1749997
Chloroform	ND		0.00546	1	10/01/2021 20:23	WG1749997
Chloromethane	ND		0.00273	1	10/01/2021 20:23	WG1749997
2-Chlorotoluene	ND		0.00109	1	10/01/2021 20:23	WG1749997

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Chlorotoluene	ND		0.00109	1	10/01/2021 20:23	WG1749997
1,2-Dibromo-3-Chloropropane	ND		0.00546	1	10/01/2021 20:23	WG1749997
1,2-Dibromoethane	ND		0.00109	1	10/01/2021 20:23	WG1749997
Dibromomethane	ND		0.00109	1	10/01/2021 20:23	WG1749997
1,2-Dichlorobenzene	ND		0.00109	1	10/01/2021 20:23	WG1749997
1,3-Dichlorobenzene	ND		0.00109	1	10/01/2021 20:23	WG1749997
1,4-Dichlorobenzene	ND		0.00109	1	10/01/2021 20:23	WG1749997
Dichlorodifluoromethane	ND		0.00546	1	10/01/2021 20:23	WG1749997
1,1-Dichloroethane	ND		0.00109	1	10/01/2021 20:23	WG1749997
1,2-Dichloroethane	ND		0.00109	1	10/01/2021 20:23	WG1749997
1,1-Dichloroethene	ND		0.00109	1	10/01/2021 20:23	WG1749997
cis-1,2-Dichloroethene	ND		0.00109	1	10/01/2021 20:23	WG1749997
trans-1,2-Dichloroethene	ND		0.00109	1	10/01/2021 20:23	WG1749997
1,2-Dichloropropane	ND		0.00109	1	10/01/2021 20:23	WG1749997
1,1-Dichloropropene	ND		0.00109	1	10/01/2021 20:23	WG1749997
1,3-Dichloropropane	ND		0.00109	1	10/01/2021 20:23	WG1749997
cis-1,3-Dichloropropene	ND		0.00109	1	10/01/2021 20:23	WG1749997
trans-1,3-Dichloropropene	ND		0.00109	1	10/01/2021 20:23	WG1749997
2,2-Dichloropropane	ND		0.00109	1	10/01/2021 20:23	WG1749997
Ethylbenzene	ND		0.00109	1	10/01/2021 20:23	WG1749997
Hexachloro-1,3-butadiene	ND		0.00109	1	10/01/2021 20:23	WG1749997
Isopropylbenzene	ND		0.00109	1	10/01/2021 20:23	WG1749997
p-Isopropyltoluene	ND		0.00109	1	10/01/2021 20:23	WG1749997
2-Butanone (MEK)	ND		0.0109	1	10/01/2021 20:23	WG1749997
Methylene Chloride	ND		0.00546	1	10/01/2021 20:23	WG1749997
4-Methyl-2-pentanone (MIBK)	ND		0.0109	1	10/01/2021 20:23	WG1749997
Naphthalene	ND		0.00546	1	10/01/2021 20:23	WG1749997
n-Propylbenzene	ND		0.00109	1	10/01/2021 20:23	WG1749997
Styrene	ND		0.00109	1	10/01/2021 20:23	WG1749997
1,1,1,2-Tetrachloroethane	ND		0.00109	1	10/01/2021 20:23	WG1749997
1,1,2,2-Tetrachloroethane	ND		0.00109	1	10/01/2021 20:23	WG1749997
1,1,2-Trichlorotrifluoroethane	ND		0.00109	1	10/01/2021 20:23	WG1749997
Tetrachloroethene	ND		0.00109	1	10/01/2021 20:23	WG1749997
Toluene	ND		0.00546	1	10/01/2021 20:23	WG1749997
1,2,3-Trichlorobenzene	ND		0.00109	1	10/01/2021 20:23	WG1749997
1,2,4-Trichlorobenzene	ND		0.00109	1	10/01/2021 20:23	WG1749997
1,1,1-Trichloroethane	ND		0.00109	1	10/01/2021 20:23	WG1749997
1,1,2-Trichloroethane	ND		0.00109	1	10/01/2021 20:23	WG1749997
Trichloroethene	ND		0.00109	1	10/01/2021 20:23	WG1749997
Trichlorofluoromethane	ND		0.00546	1	10/04/2021 16:07	WG1750995
1,2,3-Trichloropropane	ND		0.00273	1	10/01/2021 20:23	WG1749997
1,2,4-Trimethylbenzene	ND		0.00109	1	10/01/2021 20:23	WG1749997
1,2,3-Trimethylbenzene	ND		0.00109	1	10/01/2021 20:23	WG1749997
1,3,5-Trimethylbenzene	ND		0.00109	1	10/01/2021 20:23	WG1749997
Vinyl chloride	ND		0.00109	1	10/01/2021 20:23	WG1749997
Xylenes, Total	ND		0.00328	1	10/01/2021 20:23	WG1749997
Di-isopropyl ether	ND		0.00109	1	10/01/2021 20:23	WG1749997
Ethanol	ND		0.109	1	10/01/2021 20:23	WG1749997
Ethyl tert-butyl ether	ND		0.00109	1	10/01/2021 20:23	WG1749997
Methyl tert-butyl ether	ND		0.00109	1	10/01/2021 20:23	WG1749997
t-Amyl Alcohol	ND		0.0546	1	10/01/2021 20:23	WG1749997
tert-Butyl alcohol	ND		0.00546	1	10/01/2021 20:23	WG1749997
tert-Amyl Methyl Ether	ND		0.00109	1	10/01/2021 20:23	WG1749997
(S) Toluene-d8	*120*		*75.0-131*		*10/01/2021 20:23*	WG1749997
(S) Toluene-d8	*115*		*75.0-131*		*10/04/2021 16:07*	WG1750995
(S) 4-Bromofluorobenzene	*97.2*		*67.0-138*		*10/01/2021 20:23*	WG1749997

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*104*		*67.0-138*		*10/04/2021 16:07*	WG1750995
(S) 1,2-Dichloroethane-d4	*108*		*70.0-130*		*10/01/2021 20:23*	WG1749997
(S) 1,2-Dichloroethane-d4	*112*		*70.0-130*		*10/04/2021 16:07*	WG1750995

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	ND		4.37	1	10/01/2021 10:44	WG1749660
C22-C32 Hydrocarbons	ND		4.37	1	10/01/2021 10:44	WG1749660
C32-C40 Hydrocarbons	ND		4.37	1	10/01/2021 10:44	WG1749660
(S) o-Terphenyl	*73.5*		*18.0-148*		*10/01/2021 10:44*	WG1749660

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.7		1	09/29/2021 08:20	WG1747743

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0501		0.0441	1	09/28/2021 16:59	WG1747648

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.21	1	09/28/2021 21:59	WG1747527
Arsenic	4.71		2.21	1	09/28/2021 21:59	WG1747527
Barium	167		0.552	1	09/28/2021 21:59	WG1747527
Beryllium	0.568		0.221	1	09/28/2021 21:59	WG1747527
Cadmium	ND		0.552	1	09/28/2021 21:59	WG1747527
Chromium	33.1		1.10	1	09/28/2021 21:59	WG1747527
Cobalt	11.2		1.10	1	09/28/2021 21:59	WG1747527
Copper	26.2		2.21	1	09/28/2021 21:59	WG1747527
Lead	8.23		0.552	1	09/28/2021 21:59	WG1747527
Molybdenum	0.909		0.552	1	09/28/2021 21:59	WG1747527
Nickel	50.8		2.21	1	09/28/2021 21:59	WG1747527
Selenium	ND		2.21	1	09/28/2021 21:59	WG1747527
Silver	ND		1.10	1	09/28/2021 21:59	WG1747527
Thallium	ND		2.21	1	09/28/2021 21:59	WG1747527
Vanadium	36.3		2.21	1	09/28/2021 21:59	WG1747527
Zinc	51.5		5.52	1	09/28/2021 21:59	WG1747527

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPHG C5 - C12	ND		3.12	25	09/30/2021 05:20	WG1748298
(S) a,a,a-Trifluorotoluene(FID)	*92.2*		*77.0-120*		*09/30/2021 05:20*	WG1748298

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0552	1	10/01/2021 20:44	WG1749997
Acrylonitrile	ND		0.0110	1	10/01/2021 20:44	WG1749997
Benzene	ND		0.00110	1	10/01/2021 20:44	WG1749997
Bromobenzene	ND		0.00110	1	10/01/2021 20:44	WG1749997
Bromodichloromethane	ND		0.00110	1	10/01/2021 20:44	WG1749997
Bromoform	ND		0.00110	1	10/01/2021 20:44	WG1749997
Bromomethane	ND		0.00552	1	10/01/2021 20:44	WG1749997
n-Butylbenzene	ND		0.00110	1	10/01/2021 20:44	WG1749997
sec-Butylbenzene	ND		0.00110	1	10/01/2021 20:44	WG1749997
tert-Butylbenzene	ND		0.00110	1	10/01/2021 20:44	WG1749997
Carbon tetrachloride	ND		0.00110	1	10/01/2021 20:44	WG1749997
Carbon disulfide	ND		0.00110	1	10/01/2021 20:44	WG1749997
Chlorobenzene	ND		0.00110	1	10/01/2021 20:44	WG1749997
Chlorodibromomethane	ND		0.00110	1	10/01/2021 20:44	WG1749997
Chloroethane	ND		0.00552	1	10/01/2021 20:44	WG1749997
Chloroform	ND		0.00552	1	10/01/2021 20:44	WG1749997
Chloromethane	ND		0.00276	1	10/01/2021 20:44	WG1749997
2-Chlorotoluene	ND		0.00110	1	10/01/2021 20:44	WG1749997

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Chlorotoluene	ND		0.00110	1	10/01/2021 20:44	WG1749997
1,2-Dibromo-3-Chloropropane	ND		0.00552	1	10/01/2021 20:44	WG1749997
1,2-Dibromoethane	ND		0.00110	1	10/01/2021 20:44	WG1749997
Dibromomethane	ND		0.00110	1	10/01/2021 20:44	WG1749997
1,2-Dichlorobenzene	ND		0.00110	1	10/01/2021 20:44	WG1749997
1,3-Dichlorobenzene	ND		0.00110	1	10/01/2021 20:44	WG1749997
1,4-Dichlorobenzene	ND		0.00110	1	10/01/2021 20:44	WG1749997
Dichlorodifluoromethane	ND		0.00552	1	10/01/2021 20:44	WG1749997
1,1-Dichloroethane	ND		0.00110	1	10/01/2021 20:44	WG1749997
1,2-Dichloroethane	ND		0.00110	1	10/01/2021 20:44	WG1749997
1,1-Dichloroethene	ND		0.00110	1	10/01/2021 20:44	WG1749997
cis-1,2-Dichloroethene	ND		0.00110	1	10/01/2021 20:44	WG1749997
trans-1,2-Dichloroethene	ND		0.00110	1	10/01/2021 20:44	WG1749997
1,2-Dichloropropane	ND		0.00110	1	10/01/2021 20:44	WG1749997
1,1-Dichloropropene	ND		0.00110	1	10/01/2021 20:44	WG1749997
1,3-Dichloropropane	ND		0.00110	1	10/01/2021 20:44	WG1749997
cis-1,3-Dichloropropene	ND		0.00110	1	10/01/2021 20:44	WG1749997
trans-1,3-Dichloropropene	ND		0.00110	1	10/01/2021 20:44	WG1749997
2,2-Dichloropropane	ND		0.00110	1	10/01/2021 20:44	WG1749997
Ethylbenzene	ND		0.00110	1	10/01/2021 20:44	WG1749997
Hexachloro-1,3-butadiene	ND		0.00110	1	10/01/2021 20:44	WG1749997
Isopropylbenzene	ND		0.00110	1	10/01/2021 20:44	WG1749997
p-Isopropyltoluene	ND		0.00110	1	10/01/2021 20:44	WG1749997
2-Butanone (MEK)	ND		0.0110	1	10/01/2021 20:44	WG1749997
Methylene Chloride	ND		0.00552	1	10/01/2021 20:44	WG1749997
4-Methyl-2-pentanone (MIBK)	ND		0.0110	1	10/01/2021 20:44	WG1749997
Naphthalene	ND		0.00552	1	10/01/2021 20:44	WG1749997
n-Propylbenzene	ND		0.00110	1	10/01/2021 20:44	WG1749997
Styrene	ND		0.00110	1	10/01/2021 20:44	WG1749997
1,1,1,2-Tetrachloroethane	ND		0.00110	1	10/01/2021 20:44	WG1749997
1,1,2,2-Tetrachloroethane	ND		0.00110	1	10/01/2021 20:44	WG1749997
1,1,2-Trichlorotrifluoroethane	ND		0.00110	1	10/01/2021 20:44	WG1749997
Tetrachloroethene	ND		0.00110	1	10/01/2021 20:44	WG1749997
Toluene	ND		0.00552	1	10/01/2021 20:44	WG1749997
1,2,3-Trichlorobenzene	ND		0.00110	1	10/01/2021 20:44	WG1749997
1,2,4-Trichlorobenzene	ND		0.00110	1	10/01/2021 20:44	WG1749997
1,1,1-Trichloroethane	ND		0.00110	1	10/01/2021 20:44	WG1749997
1,1,2-Trichloroethane	ND		0.00110	1	10/01/2021 20:44	WG1749997
Trichloroethene	ND		0.00110	1	10/01/2021 20:44	WG1749997
Trichlorofluoromethane	ND		0.00552	1	10/04/2021 16:29	WG1750995
1,2,3-Trichloropropane	ND		0.00276	1	10/01/2021 20:44	WG1749997
1,2,4-Trimethylbenzene	ND		0.00110	1	10/01/2021 20:44	WG1749997
1,2,3-Trimethylbenzene	ND		0.00110	1	10/01/2021 20:44	WG1749997
1,3,5-Trimethylbenzene	ND		0.00110	1	10/01/2021 20:44	WG1749997
Vinyl chloride	ND		0.00110	1	10/01/2021 20:44	WG1749997
Xylenes, Total	ND		0.00331	1	10/01/2021 20:44	WG1749997
Di-isopropyl ether	ND		0.00110	1	10/01/2021 20:44	WG1749997
Ethanol	ND		0.110	1	10/01/2021 20:44	WG1749997
Ethyl tert-butyl ether	ND		0.00110	1	10/01/2021 20:44	WG1749997
Methyl tert-butyl ether	ND		0.00110	1	10/01/2021 20:44	WG1749997
t-Amyl Alcohol	ND		0.0552	1	10/01/2021 20:44	WG1749997
tert-Butyl alcohol	ND		0.00552	1	10/01/2021 20:44	WG1749997
tert-Amyl Methyl Ether	ND		0.00110	1	10/01/2021 20:44	WG1749997
(S) Toluene-d8	*116*		*75.0-131*		*10/01/2021 20:44*	WG1749997
(S) Toluene-d8	*118*		*75.0-131*		*10/04/2021 16:29*	WG1750995
(S) 4-Bromofluorobenzene	*98.8*		*67.0-138*		*10/01/2021 20:44*	WG1749997

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*100*		*67.0-138*		*10/04/2021 16:29*	WG1750995
(S) 1,2-Dichloroethane-d4	*110*		*70.0-130*		*10/01/2021 20:44*	WG1749997
(S) 1,2-Dichloroethane-d4	*106*		*70.0-130*		*10/04/2021 16:29*	WG1750995

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	ND		4.41	1	10/01/2021 11:01	WG1749660
C22-C32 Hydrocarbons	ND		4.41	1	10/01/2021 11:01	WG1749660
C32-C40 Hydrocarbons	ND		4.41	1	10/01/2021 11:01	WG1749660
(S) o-Terphenyl	*75.5*		*18.0-148*		*10/01/2021 11:01*	WG1749660

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.0		1	09/29/2021 08:20	WG1747743

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0785		0.0449	1	09/28/2021 17:01	WG1747648

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.25	1	09/28/2021 22:01	WG1747527
Arsenic	6.88		2.25	1	09/28/2021 22:01	WG1747527
Barium	187		0.562	1	09/28/2021 22:01	WG1747527
Beryllium	0.669		0.225	1	09/28/2021 22:01	WG1747527
Cadmium	ND		0.562	1	09/28/2021 22:01	WG1747527
Chromium	32.5		1.12	1	09/28/2021 22:01	WG1747527
Cobalt	13.7		1.12	1	09/28/2021 22:01	WG1747527
Copper	36.5		2.25	1	09/28/2021 22:01	WG1747527
Lead	20.6		0.562	1	09/28/2021 22:01	WG1747527
Molybdenum	0.745		0.562	1	09/28/2021 22:01	WG1747527
Nickel	49.7		2.25	1	09/28/2021 22:01	WG1747527
Selenium	ND		2.25	1	09/28/2021 22:01	WG1747527
Silver	ND		1.12	1	09/28/2021 22:01	WG1747527
Thallium	ND		2.25	1	09/28/2021 22:01	WG1747527
Vanadium	36.8		2.25	1	09/28/2021 22:01	WG1747527
Zinc	75.5		5.62	1	09/28/2021 22:01	WG1747527

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPHG C5 - C12	ND		3.21	25	09/30/2021 05:42	WG1748298
(S) a,a,a-Trifluorotoluene(FID)	*92.0*		*77.0-120*		*09/30/2021 05:42*	WG1748298

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0562	1	10/03/2021 19:05	WG1750403
Acrylonitrile	ND		0.0112	1	10/03/2021 19:05	WG1750403
Benzene	ND		0.00112	1	10/03/2021 19:05	WG1750403
Bromobenzene	ND		0.00112	1	10/03/2021 19:05	WG1750403
Bromodichloromethane	ND		0.00112	1	10/03/2021 19:05	WG1750403
Bromoform	ND		0.00112	1	10/03/2021 19:05	WG1750403
Bromomethane	ND		0.00562	1	10/03/2021 19:05	WG1750403
n-Butylbenzene	ND		0.00112	1	10/03/2021 19:05	WG1750403
sec-Butylbenzene	ND		0.00112	1	10/03/2021 19:05	WG1750403
tert-Butylbenzene	ND		0.00112	1	10/03/2021 19:05	WG1750403
Carbon tetrachloride	ND		0.00112	1	10/03/2021 19:05	WG1750403
Carbon disulfide	ND		0.00112	1	10/03/2021 19:05	WG1750403
Chlorobenzene	ND		0.00112	1	10/03/2021 19:05	WG1750403
Chlorodibromomethane	ND		0.00112	1	10/03/2021 19:05	WG1750403
Chloroethane	ND		0.00562	1	10/03/2021 19:05	WG1750403
Chloroform	ND		0.00562	1	10/03/2021 19:05	WG1750403
Chloromethane	ND		0.00281	1	10/03/2021 19:05	WG1750403
2-Chlorotoluene	ND		0.00112	1	10/03/2021 19:05	WG1750403

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Chlorotoluene	ND		0.00112	1	10/03/2021 19:05	WG1750403
1,2-Dibromo-3-Chloropropane	ND		0.00562	1	10/03/2021 19:05	WG1750403
1,2-Dibromoethane	ND		0.00112	1	10/03/2021 19:05	WG1750403
Dibromomethane	ND		0.00112	1	10/03/2021 19:05	WG1750403
1,2-Dichlorobenzene	ND		0.00112	1	10/03/2021 19:05	WG1750403
1,3-Dichlorobenzene	ND		0.00112	1	10/03/2021 19:05	WG1750403
1,4-Dichlorobenzene	ND		0.00112	1	10/03/2021 19:05	WG1750403
Dichlorodifluoromethane	ND		0.00562	1	10/03/2021 19:05	WG1750403
1,1-Dichloroethane	ND		0.00112	1	10/03/2021 19:05	WG1750403
1,2-Dichloroethane	ND		0.00112	1	10/03/2021 19:05	WG1750403
1,1-Dichloroethene	ND		0.00112	1	10/03/2021 19:05	WG1750403
cis-1,2-Dichloroethene	ND		0.00112	1	10/03/2021 19:05	WG1750403
trans-1,2-Dichloroethene	ND		0.00112	1	10/03/2021 19:05	WG1750403
1,2-Dichloropropane	ND		0.00112	1	10/03/2021 19:05	WG1750403
1,1-Dichloropropene	ND		0.00112	1	10/03/2021 19:05	WG1750403
1,3-Dichloropropane	ND		0.00112	1	10/03/2021 19:05	WG1750403
cis-1,3-Dichloropropene	ND		0.00112	1	10/03/2021 19:05	WG1750403
trans-1,3-Dichloropropene	ND		0.00112	1	10/03/2021 19:05	WG1750403
2,2-Dichloropropane	ND		0.00112	1	10/03/2021 19:05	WG1750403
Ethylbenzene	ND		0.00112	1	10/03/2021 19:05	WG1750403
Hexachloro-1,3-butadiene	ND		0.00112	1	10/03/2021 19:05	WG1750403
Isopropylbenzene	ND		0.00112	1	10/03/2021 19:05	WG1750403
p-Isopropyltoluene	ND		0.00112	1	10/03/2021 19:05	WG1750403
2-Butanone (MEK)	ND		0.0112	1	10/03/2021 19:05	WG1750403
Methylene Chloride	ND		0.00562	1	10/03/2021 19:05	WG1750403
4-Methyl-2-pentanone (MIBK)	ND		0.0112	1	10/03/2021 19:05	WG1750403
Naphthalene	ND		0.00562	1	10/03/2021 19:05	WG1750403
n-Propylbenzene	ND		0.00112	1	10/03/2021 19:05	WG1750403
Styrene	ND		0.00112	1	10/03/2021 19:05	WG1750403
1,1,1,2-Tetrachloroethane	ND		0.00112	1	10/03/2021 19:05	WG1750403
1,1,2,2-Tetrachloroethane	ND		0.00112	1	10/03/2021 19:05	WG1750403
1,1,2-Trichlorotrifluoroethane	ND		0.00112	1	10/03/2021 19:05	WG1750403
Tetrachloroethene	0.00147		0.00112	1	10/03/2021 19:05	WG1750403
Toluene	ND		0.00562	1	10/03/2021 19:05	WG1750403
1,2,3-Trichlorobenzene	ND		0.00112	1	10/03/2021 19:05	WG1750403
1,2,4-Trichlorobenzene	ND		0.00112	1	10/03/2021 19:05	WG1750403
1,1,1-Trichloroethane	0.00127		0.00112	1	10/03/2021 19:05	WG1750403
1,1,2-Trichloroethane	ND		0.00112	1	10/03/2021 19:05	WG1750403
Trichloroethene	ND		0.00112	1	10/03/2021 19:05	WG1750403
Trichlorofluoromethane	ND		0.00562	1	10/03/2021 19:05	WG1750403
1,2,3-Trichloropropane	ND		0.00281	1	10/03/2021 19:05	WG1750403
1,2,4-Trimethylbenzene	ND		0.00112	1	10/03/2021 19:05	WG1750403
1,2,3-Trimethylbenzene	ND		0.00112	1	10/03/2021 19:05	WG1750403
1,3,5-Trimethylbenzene	ND		0.00112	1	10/03/2021 19:05	WG1750403
Vinyl chloride	ND		0.00112	1	10/03/2021 19:05	WG1750403
Xylenes, Total	ND		0.00337	1	10/03/2021 19:05	WG1750403
Di-isopropyl ether	ND		0.00112	1	10/03/2021 19:05	WG1750403
Ethanol	ND		0.112	1	10/03/2021 19:05	WG1750403
Ethyl tert-butyl ether	ND		0.00112	1	10/03/2021 19:05	WG1750403
Methyl tert-butyl ether	ND		0.00112	1	10/03/2021 19:05	WG1750403
t-Amyl Alcohol	ND		0.0562	1	10/03/2021 19:05	WG1750403
tert-Butyl alcohol	ND		0.00562	1	10/03/2021 19:05	WG1750403
tert-Amyl Methyl Ether	ND		0.00112	1	10/03/2021 19:05	WG1750403
(S) Toluene-d8	*117*		*75.0-131*		*10/03/2021 19:05*	WG1750403
(S) 4-Bromofluorobenzene	*104*		*67.0-138*		*10/03/2021 19:05*	WG1750403
(S) 1,2-Dichloroethane-d4	*114*		*70.0-130*		*10/03/2021 19:05*	WG1750403

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	ND		4.49	1	10/01/2021 12:25	WG1749660
C22-C32 Hydrocarbons	4.72		4.49	1	10/01/2021 12:25	WG1749660
C32-C40 Hydrocarbons	ND		4.49	1	10/01/2021 12:25	WG1749660
(S) o-Terphenyl	*63.3*		*18.0-148*		*10/01/2021 12:25*	WG1749660

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.4		1	09/29/2021 08:20	WG1747743

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0751		0.0453	1	09/29/2021 10:38	WG1748049

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.26	1	09/28/2021 22:04	WG1747527
Arsenic	5.62		2.26	1	09/28/2021 22:04	WG1747527
Barium	174		0.566	1	09/28/2021 22:04	WG1747527
Beryllium	0.606		0.226	1	09/28/2021 22:04	WG1747527
Cadmium	ND		0.566	1	09/28/2021 22:04	WG1747527
Chromium	31.3		1.13	1	09/28/2021 22:04	WG1747527
Cobalt	12.9		1.13	1	09/28/2021 22:04	WG1747527
Copper	34.4		2.26	1	09/28/2021 22:04	WG1747527
Lead	22.7		0.566	1	09/28/2021 22:04	WG1747527
Molybdenum	0.653		0.566	1	09/28/2021 22:04	WG1747527
Nickel	46.2		2.26	1	09/28/2021 22:04	WG1747527
Selenium	ND		2.26	1	09/28/2021 22:04	WG1747527
Silver	ND		1.13	1	09/28/2021 22:04	WG1747527
Thallium	ND		2.26	1	09/28/2021 22:04	WG1747527
Vanadium	35.1		2.26	1	09/28/2021 22:04	WG1747527
Zinc	70.9		5.66	1	09/28/2021 22:04	WG1747527

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPHG C5 - C12	ND		3.24	25	09/30/2021 06:04	WG1748298
(S) a,a,a-Trifluorotoluene(FID)	*92.4*		*77.0-120*		*09/30/2021 06:04*	WG1748298

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	0.0880		0.0566	1	10/03/2021 19:27	WG1750403
Acrylonitrile	ND		0.0113	1	10/03/2021 19:27	WG1750403
Benzene	ND		0.00113	1	10/03/2021 19:27	WG1750403
Bromobenzene	ND		0.00113	1	10/03/2021 19:27	WG1750403
Bromodichloromethane	ND		0.00113	1	10/03/2021 19:27	WG1750403
Bromoform	ND		0.00113	1	10/03/2021 19:27	WG1750403
Bromomethane	ND		0.00566	1	10/03/2021 19:27	WG1750403
n-Butylbenzene	ND		0.00113	1	10/03/2021 19:27	WG1750403
sec-Butylbenzene	ND		0.00113	1	10/03/2021 19:27	WG1750403
tert-Butylbenzene	ND		0.00113	1	10/03/2021 19:27	WG1750403
Carbon tetrachloride	ND		0.00113	1	10/03/2021 19:27	WG1750403
Carbon disulfide	ND		0.00113	1	10/03/2021 19:27	WG1750403
Chlorobenzene	ND		0.00113	1	10/03/2021 19:27	WG1750403
Chlorodibromomethane	ND		0.00113	1	10/03/2021 19:27	WG1750403
Chloroethane	ND		0.00566	1	10/03/2021 19:27	WG1750403
Chloroform	ND		0.00566	1	10/03/2021 19:27	WG1750403
Chloromethane	ND		0.00283	1	10/03/2021 19:27	WG1750403
2-Chlorotoluene	ND		0.00113	1	10/03/2021 19:27	WG1750403

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Chlorotoluene	ND		0.00113	1	10/03/2021 19:27	WG1750403
1,2-Dibromo-3-Chloropropane	ND		0.00566	1	10/03/2021 19:27	WG1750403
1,2-Dibromoethane	ND		0.00113	1	10/03/2021 19:27	WG1750403
Dibromomethane	ND		0.00113	1	10/03/2021 19:27	WG1750403
1,2-Dichlorobenzene	ND		0.00113	1	10/03/2021 19:27	WG1750403
1,3-Dichlorobenzene	ND		0.00113	1	10/03/2021 19:27	WG1750403
1,4-Dichlorobenzene	ND		0.00113	1	10/03/2021 19:27	WG1750403
Dichlorodifluoromethane	ND		0.00566	1	10/03/2021 19:27	WG1750403
1,1-Dichloroethane	ND		0.00113	1	10/03/2021 19:27	WG1750403
1,2-Dichloroethane	ND		0.00113	1	10/03/2021 19:27	WG1750403
1,1-Dichloroethene	ND		0.00113	1	10/03/2021 19:27	WG1750403
cis-1,2-Dichloroethene	ND		0.00113	1	10/03/2021 19:27	WG1750403
trans-1,2-Dichloroethene	ND		0.00113	1	10/03/2021 19:27	WG1750403
1,2-Dichloropropane	ND		0.00113	1	10/03/2021 19:27	WG1750403
1,1-Dichloropropene	ND		0.00113	1	10/03/2021 19:27	WG1750403
1,3-Dichloropropane	ND		0.00113	1	10/03/2021 19:27	WG1750403
cis-1,3-Dichloropropene	ND		0.00113	1	10/03/2021 19:27	WG1750403
trans-1,3-Dichloropropene	ND		0.00113	1	10/03/2021 19:27	WG1750403
2,2-Dichloropropane	ND		0.00113	1	10/03/2021 19:27	WG1750403
Ethylbenzene	ND		0.00113	1	10/03/2021 19:27	WG1750403
Hexachloro-1,3-butadiene	ND		0.00113	1	10/03/2021 19:27	WG1750403
Isopropylbenzene	ND		0.00113	1	10/03/2021 19:27	WG1750403
p-Isopropyltoluene	ND		0.00113	1	10/03/2021 19:27	WG1750403
2-Butanone (MEK)	ND		0.0113	1	10/03/2021 19:27	WG1750403
Methylene Chloride	ND		0.00566	1	10/03/2021 19:27	WG1750403
4-Methyl-2-pentanone (MIBK)	ND		0.0113	1	10/03/2021 19:27	WG1750403
Naphthalene	ND		0.00566	1	10/03/2021 19:27	WG1750403
n-Propylbenzene	ND		0.00113	1	10/03/2021 19:27	WG1750403
Styrene	ND		0.00113	1	10/03/2021 19:27	WG1750403
1,1,1,2-Tetrachloroethane	ND		0.00113	1	10/03/2021 19:27	WG1750403
1,1,2,2-Tetrachloroethane	ND		0.00113	1	10/03/2021 19:27	WG1750403
1,1,2-Trichlorotrifluoroethane	ND		0.00113	1	10/03/2021 19:27	WG1750403
Tetrachloroethene	ND		0.00113	1	10/03/2021 19:27	WG1750403
Toluene	ND		0.00566	1	10/03/2021 19:27	WG1750403
1,2,3-Trichlorobenzene	ND		0.00113	1	10/03/2021 19:27	WG1750403
1,2,4-Trichlorobenzene	ND		0.00113	1	10/03/2021 19:27	WG1750403
1,1,1-Trichloroethane	0.00197		0.00113	1	10/03/2021 19:27	WG1750403
1,1,2-Trichloroethane	ND		0.00113	1	10/03/2021 19:27	WG1750403
Trichloroethene	ND		0.00113	1	10/03/2021 19:27	WG1750403
Trichlorofluoromethane	ND		0.00566	1	10/03/2021 19:27	WG1750403
1,2,3-Trichloropropane	ND		0.00283	1	10/03/2021 19:27	WG1750403
1,2,4-Trimethylbenzene	ND		0.00113	1	10/03/2021 19:27	WG1750403
1,2,3-Trimethylbenzene	ND		0.00113	1	10/03/2021 19:27	WG1750403
1,3,5-Trimethylbenzene	ND		0.00113	1	10/03/2021 19:27	WG1750403
Vinyl chloride	ND		0.00113	1	10/03/2021 19:27	WG1750403
Xylenes, Total	ND		0.00339	1	10/03/2021 19:27	WG1750403
Di-isopropyl ether	ND		0.00113	1	10/03/2021 19:27	WG1750403
Ethanol	ND		0.113	1	10/03/2021 19:27	WG1750403
Ethyl tert-butyl ether	ND		0.00113	1	10/03/2021 19:27	WG1750403
Methyl tert-butyl ether	ND		0.00113	1	10/03/2021 19:27	WG1750403
t-Amyl Alcohol	ND		0.0566	1	10/03/2021 19:27	WG1750403
tert-Butyl alcohol	ND		0.00566	1	10/03/2021 19:27	WG1750403
tert-Amyl Methyl Ether	ND		0.00113	1	10/03/2021 19:27	WG1750403
(S) Toluene-d8	*128*		*75.0-131*		*10/03/2021 19:27*	WG1750403
(S) 4-Bromofluorobenzene	*89.5*		*67.0-138*		*10/03/2021 19:27*	WG1750403
(S) 1,2-Dichloroethane-d4	*114*		*70.0-130*		*10/03/2021 19:27*	WG1750403

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	ND		4.53	1	10/01/2021 12:59	WG1749660
C22-C32 Hydrocarbons	11.8		4.53	1	10/01/2021 12:59	WG1749660
C32-C40 Hydrocarbons	8.28		4.53	1	10/01/2021 12:59	WG1749660
(S) o-Terphenyl	*75.1*		*18.0-148*		*10/01/2021 12:59*	WG1749660

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.4		1	09/29/2021 08:20	WG1747743

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0620		0.0452	1	09/29/2021 10:41	WG1748049

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.26	1	09/28/2021 22:07	WG1747527
Arsenic	4.93		2.26	1	09/28/2021 22:07	WG1747527
Barium	194		0.565	1	09/28/2021 22:07	WG1747527
Beryllium	0.716		0.226	1	09/28/2021 22:07	WG1747527
Cadmium	ND		0.565	1	09/28/2021 22:07	WG1747527
Chromium	40.1		1.13	1	09/28/2021 22:07	WG1747527
Cobalt	15.4		1.13	1	09/28/2021 22:07	WG1747527
Copper	38.3		2.26	1	09/28/2021 22:07	WG1747527
Lead	22.2		0.565	1	09/28/2021 22:07	WG1747527
Molybdenum	0.715		0.565	1	09/28/2021 22:07	WG1747527
Nickel	54.9		2.26	1	09/28/2021 22:07	WG1747527
Selenium	ND		2.26	1	09/28/2021 22:07	WG1747527
Silver	ND		1.13	1	09/28/2021 22:07	WG1747527
Thallium	ND		2.26	1	09/28/2021 22:07	WG1747527
Vanadium	39.8		2.26	1	09/28/2021 22:07	WG1747527
Zinc	69.8		5.65	1	09/28/2021 22:07	WG1747527

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPHG C5 - C12	ND		3.26	25	09/30/2021 06:26	WG1748298
(S) a,a,a-Trifluorotoluene(FID)	*89.7*		*77.0-120*		*09/30/2021 06:26*	WG1748298

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0565	1	10/03/2021 19:49	WG1750403
Acrylonitrile	ND		0.0113	1	10/03/2021 19:49	WG1750403
Benzene	ND		0.00113	1	10/03/2021 19:49	WG1750403
Bromobenzene	ND		0.00113	1	10/03/2021 19:49	WG1750403
Bromodichloromethane	ND		0.00113	1	10/03/2021 19:49	WG1750403
Bromoform	ND		0.00113	1	10/03/2021 19:49	WG1750403
Bromomethane	ND		0.00565	1	10/03/2021 19:49	WG1750403
n-Butylbenzene	ND		0.00113	1	10/03/2021 19:49	WG1750403
sec-Butylbenzene	ND		0.00113	1	10/03/2021 19:49	WG1750403
tert-Butylbenzene	ND		0.00113	1	10/03/2021 19:49	WG1750403
Carbon tetrachloride	ND		0.00113	1	10/03/2021 19:49	WG1750403
Carbon disulfide	ND		0.00113	1	10/03/2021 19:49	WG1750403
Chlorobenzene	ND		0.00113	1	10/03/2021 19:49	WG1750403
Chlorodibromomethane	ND		0.00113	1	10/03/2021 19:49	WG1750403
Chloroethane	ND		0.00565	1	10/03/2021 19:49	WG1750403
Chloroform	ND		0.00565	1	10/03/2021 19:49	WG1750403
Chloromethane	ND		0.00283	1	10/03/2021 19:49	WG1750403
2-Chlorotoluene	ND		0.00113	1	10/03/2021 19:49	WG1750403

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Chlorotoluene	ND		0.00113	1	10/03/2021 19:49	WG1750403
1,2-Dibromo-3-Chloropropane	ND		0.00565	1	10/03/2021 19:49	WG1750403
1,2-Dibromoethane	ND		0.00113	1	10/03/2021 19:49	WG1750403
Dibromomethane	ND		0.00113	1	10/03/2021 19:49	WG1750403
1,2-Dichlorobenzene	ND		0.00113	1	10/03/2021 19:49	WG1750403
1,3-Dichlorobenzene	ND		0.00113	1	10/03/2021 19:49	WG1750403
1,4-Dichlorobenzene	ND		0.00113	1	10/03/2021 19:49	WG1750403
Dichlorodifluoromethane	ND		0.00565	1	10/03/2021 19:49	WG1750403
1,1-Dichloroethane	ND		0.00113	1	10/03/2021 19:49	WG1750403
1,2-Dichloroethane	ND		0.00113	1	10/03/2021 19:49	WG1750403
1,1-Dichloroethene	ND		0.00113	1	10/03/2021 19:49	WG1750403
cis-1,2-Dichloroethene	ND		0.00113	1	10/03/2021 19:49	WG1750403
trans-1,2-Dichloroethene	ND		0.00113	1	10/03/2021 19:49	WG1750403
1,2-Dichloropropane	ND		0.00113	1	10/03/2021 19:49	WG1750403
1,1-Dichloropropene	ND		0.00113	1	10/03/2021 19:49	WG1750403
1,3-Dichloropropane	ND		0.00113	1	10/03/2021 19:49	WG1750403
cis-1,3-Dichloropropene	ND		0.00113	1	10/03/2021 19:49	WG1750403
trans-1,3-Dichloropropene	ND		0.00113	1	10/03/2021 19:49	WG1750403
2,2-Dichloropropane	ND		0.00113	1	10/03/2021 19:49	WG1750403
Ethylbenzene	ND		0.00113	1	10/03/2021 19:49	WG1750403
Hexachloro-1,3-butadiene	ND		0.00113	1	10/03/2021 19:49	WG1750403
Isopropylbenzene	ND		0.00113	1	10/03/2021 19:49	WG1750403
p-Isopropyltoluene	ND		0.00113	1	10/03/2021 19:49	WG1750403
2-Butanone (MEK)	ND		0.0113	1	10/03/2021 19:49	WG1750403
Methylene Chloride	ND		0.00565	1	10/03/2021 19:49	WG1750403
4-Methyl-2-pentanone (MIBK)	ND		0.0113	1	10/03/2021 19:49	WG1750403
Naphthalene	ND		0.00565	1	10/03/2021 19:49	WG1750403
n-Propylbenzene	ND		0.00113	1	10/03/2021 19:49	WG1750403
Styrene	ND		0.00113	1	10/03/2021 19:49	WG1750403
1,1,1,2-Tetrachloroethane	ND		0.00113	1	10/03/2021 19:49	WG1750403
1,1,2,2-Tetrachloroethane	ND		0.00113	1	10/03/2021 19:49	WG1750403
1,1,2-Trichlorotrifluoroethane	ND		0.00113	1	10/03/2021 19:49	WG1750403
Tetrachloroethene	0.00164		0.00113	1	10/03/2021 19:49	WG1750403
Toluene	ND		0.00565	1	10/03/2021 19:49	WG1750403
1,2,3-Trichlorobenzene	ND		0.00113	1	10/03/2021 19:49	WG1750403
1,2,4-Trichlorobenzene	ND		0.00113	1	10/03/2021 19:49	WG1750403
1,1,1-Trichloroethane	ND		0.00113	1	10/03/2021 19:49	WG1750403
1,1,2-Trichloroethane	ND		0.00113	1	10/03/2021 19:49	WG1750403
Trichloroethene	ND		0.00113	1	10/03/2021 19:49	WG1750403
Trichlorofluoromethane	ND		0.00565	1	10/03/2021 19:49	WG1750403
1,2,3-Trichloropropane	ND		0.00283	1	10/03/2021 19:49	WG1750403
1,2,4-Trimethylbenzene	ND		0.00113	1	10/03/2021 19:49	WG1750403
1,2,3-Trimethylbenzene	ND		0.00113	1	10/03/2021 19:49	WG1750403
1,3,5-Trimethylbenzene	ND		0.00113	1	10/03/2021 19:49	WG1750403
Vinyl chloride	ND		0.00113	1	10/03/2021 19:49	WG1750403
Xylenes, Total	ND		0.00339	1	10/03/2021 19:49	WG1750403
Di-isopropyl ether	ND		0.00113	1	10/03/2021 19:49	WG1750403
Ethanol	ND		0.113	1	10/03/2021 19:49	WG1750403
Ethyl tert-butyl ether	ND		0.00113	1	10/03/2021 19:49	WG1750403
Methyl tert-butyl ether	ND		0.00113	1	10/03/2021 19:49	WG1750403
t-Amyl Alcohol	ND		0.0565	1	10/03/2021 19:49	WG1750403
tert-Butyl alcohol	ND		0.00565	1	10/03/2021 19:49	WG1750403
tert-Amyl Methyl Ether	ND		0.00113	1	10/03/2021 19:49	WG1750403
(S) Toluene-d8	*116*		*75.0-131*		*10/03/2021 19:49*	WG1750403
(S) 4-Bromofluorobenzene	*102*		*67.0-138*		*10/03/2021 19:49*	WG1750403
(S) 1,2-Dichloroethane-d4	*113*		*70.0-130*		*10/03/2021 19:49*	WG1750403

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	ND		4.52	1	10/01/2021 11:52	WG1749660
C22-C32 Hydrocarbons	5.30		4.52	1	10/01/2021 11:52	WG1749660
C32-C40 Hydrocarbons	ND		4.52	1	10/01/2021 11:52	WG1749660
(S) o-Terphenyl	*74.5*		*18.0-148*		*10/01/2021 11:52*	WG1749660

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.7		1	09/29/2021 08:20	WG1747743

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0544		0.0456	1	09/29/2021 10:49	WG1748049

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.28	1	09/28/2021 22:10	WG1747527
Arsenic	4.80		2.28	1	09/28/2021 22:10	WG1747527
Barium	201		0.570	1	09/28/2021 22:10	WG1747527
Beryllium	0.684		0.228	1	09/28/2021 22:10	WG1747527
Cadmium	ND		0.570	1	09/28/2021 22:10	WG1747527
Chromium	33.4		1.14	1	09/28/2021 22:10	WG1747527
Cobalt	15.1		1.14	1	09/28/2021 22:10	WG1747527
Copper	37.5		2.28	1	09/28/2021 22:10	WG1747527
Lead	16.3		0.570	1	09/28/2021 22:10	WG1747527
Molybdenum	0.753		0.570	1	09/28/2021 22:10	WG1747527
Nickel	54.3		2.28	1	09/28/2021 22:10	WG1747527
Selenium	ND		2.28	1	09/28/2021 22:10	WG1747527
Silver	ND		1.14	1	09/28/2021 22:10	WG1747527
Thallium	ND		2.28	1	09/28/2021 22:10	WG1747527
Vanadium	38.3		2.28	1	09/28/2021 22:10	WG1747527
Zinc	71.2		5.70	1	09/28/2021 22:10	WG1747527

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPHG C5 - C12	ND		3.36	25	09/30/2021 06:48	WG1748298
(S) a,a,a-Trifluorotoluene(FID)	*91.1*		*77.0-120*		*09/30/2021 06:48*	WG1748298

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0570	1	10/03/2021 20:11	WG1750403
Acrylonitrile	ND		0.0114	1	10/03/2021 20:11	WG1750403
Benzene	ND		0.00114	1	10/03/2021 20:11	WG1750403
Bromobenzene	ND		0.00114	1	10/03/2021 20:11	WG1750403
Bromodichloromethane	ND		0.00114	1	10/03/2021 20:11	WG1750403
Bromoform	ND		0.00114	1	10/03/2021 20:11	WG1750403
Bromomethane	ND		0.00570	1	10/03/2021 20:11	WG1750403
n-Butylbenzene	ND		0.00114	1	10/03/2021 20:11	WG1750403
sec-Butylbenzene	ND		0.00114	1	10/03/2021 20:11	WG1750403
tert-Butylbenzene	ND		0.00114	1	10/03/2021 20:11	WG1750403
Carbon tetrachloride	ND		0.00114	1	10/03/2021 20:11	WG1750403
Carbon disulfide	ND		0.00114	1	10/03/2021 20:11	WG1750403
Chlorobenzene	ND		0.00114	1	10/03/2021 20:11	WG1750403
Chlorodibromomethane	ND		0.00114	1	10/03/2021 20:11	WG1750403
Chloroethane	ND		0.00570	1	10/03/2021 20:11	WG1750403
Chloroform	ND		0.00570	1	10/03/2021 20:11	WG1750403
Chloromethane	ND		0.00285	1	10/03/2021 20:11	WG1750403
2-Chlorotoluene	ND		0.00114	1	10/03/2021 20:11	WG1750403

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Chlorotoluene	ND		0.00114	1	10/03/2021 20:11	WG1750403
1,2-Dibromo-3-Chloropropane	ND		0.00570	1	10/03/2021 20:11	WG1750403
1,2-Dibromoethane	ND		0.00114	1	10/03/2021 20:11	WG1750403
Dibromomethane	ND		0.00114	1	10/03/2021 20:11	WG1750403
1,2-Dichlorobenzene	ND		0.00114	1	10/03/2021 20:11	WG1750403
1,3-Dichlorobenzene	ND		0.00114	1	10/03/2021 20:11	WG1750403
1,4-Dichlorobenzene	ND		0.00114	1	10/03/2021 20:11	WG1750403
Dichlorodifluoromethane	ND		0.00570	1	10/03/2021 20:11	WG1750403
1,1-Dichloroethane	ND		0.00114	1	10/03/2021 20:11	WG1750403
1,2-Dichloroethane	ND		0.00114	1	10/03/2021 20:11	WG1750403
1,1-Dichloroethene	ND		0.00114	1	10/03/2021 20:11	WG1750403
cis-1,2-Dichloroethene	ND		0.00114	1	10/03/2021 20:11	WG1750403
trans-1,2-Dichloroethene	ND		0.00114	1	10/03/2021 20:11	WG1750403
1,2-Dichloropropane	ND		0.00114	1	10/03/2021 20:11	WG1750403
1,1-Dichloropropene	ND		0.00114	1	10/03/2021 20:11	WG1750403
1,3-Dichloropropane	ND		0.00114	1	10/03/2021 20:11	WG1750403
cis-1,3-Dichloropropene	ND		0.00114	1	10/03/2021 20:11	WG1750403
trans-1,3-Dichloropropene	ND		0.00114	1	10/03/2021 20:11	WG1750403
2,2-Dichloropropane	ND		0.00114	1	10/03/2021 20:11	WG1750403
Ethylbenzene	ND		0.00114	1	10/03/2021 20:11	WG1750403
Hexachloro-1,3-butadiene	ND		0.00114	1	10/03/2021 20:11	WG1750403
Isopropylbenzene	ND		0.00114	1	10/03/2021 20:11	WG1750403
p-Isopropyltoluene	ND		0.00114	1	10/03/2021 20:11	WG1750403
2-Butanone (MEK)	ND		0.0114	1	10/03/2021 20:11	WG1750403
Methylene Chloride	ND		0.00570	1	10/03/2021 20:11	WG1750403
4-Methyl-2-pentanone (MIBK)	ND		0.0114	1	10/03/2021 20:11	WG1750403
Naphthalene	ND		0.00570	1	10/03/2021 20:11	WG1750403
n-Propylbenzene	ND		0.00114	1	10/03/2021 20:11	WG1750403
Styrene	ND		0.00114	1	10/03/2021 20:11	WG1750403
1,1,1,2-Tetrachloroethane	ND		0.00114	1	10/03/2021 20:11	WG1750403
1,1,2,2-Tetrachloroethane	ND		0.00114	1	10/03/2021 20:11	WG1750403
1,1,2-Trichlorotrifluoroethane	ND		0.00114	1	10/03/2021 20:11	WG1750403
Tetrachloroethene	ND		0.00114	1	10/03/2021 20:11	WG1750403
Toluene	ND		0.00570	1	10/03/2021 20:11	WG1750403
1,2,3-Trichlorobenzene	ND		0.00114	1	10/03/2021 20:11	WG1750403
1,2,4-Trichlorobenzene	ND		0.00114	1	10/03/2021 20:11	WG1750403
1,1,1-Trichloroethane	ND		0.00114	1	10/03/2021 20:11	WG1750403
1,1,2-Trichloroethane	ND		0.00114	1	10/03/2021 20:11	WG1750403
Trichloroethene	ND		0.00114	1	10/03/2021 20:11	WG1750403
Trichlorofluoromethane	ND		0.00570	1	10/03/2021 20:11	WG1750403
1,2,3-Trichloropropane	ND		0.00285	1	10/03/2021 20:11	WG1750403
1,2,4-Trimethylbenzene	ND		0.00114	1	10/03/2021 20:11	WG1750403
1,2,3-Trimethylbenzene	ND		0.00114	1	10/03/2021 20:11	WG1750403
1,3,5-Trimethylbenzene	ND		0.00114	1	10/03/2021 20:11	WG1750403
Vinyl chloride	ND		0.00114	1	10/03/2021 20:11	WG1750403
Xylenes, Total	ND		0.00342	1	10/03/2021 20:11	WG1750403
Di-isopropyl ether	ND		0.00114	1	10/03/2021 20:11	WG1750403
Ethanol	ND		0.114	1	10/03/2021 20:11	WG1750403
Ethyl tert-butyl ether	ND		0.00114	1	10/03/2021 20:11	WG1750403
Methyl tert-butyl ether	ND		0.00114	1	10/03/2021 20:11	WG1750403
t-Amyl Alcohol	ND		0.0570	1	10/03/2021 20:11	WG1750403
tert-Butyl alcohol	ND		0.00570	1	10/03/2021 20:11	WG1750403
tert-Amyl Methyl Ether	ND		0.00114	1	10/03/2021 20:11	WG1750403
(S) Toluene-d8	*121*		*75.0-131*		*10/03/2021 20:11*	WG1750403
(S) 4-Bromofluorobenzene	*99.1*		*67.0-138*		*10/03/2021 20:11*	WG1750403
(S) 1,2-Dichloroethane-d4	*112*		*70.0-130*		*10/03/2021 20:11*	WG1750403

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	ND		4.56	1	10/01/2021 12:08	WG1749660
C22-C32 Hydrocarbons	ND		4.56	1	10/01/2021 12:08	WG1749660
C32-C40 Hydrocarbons	ND		4.56	1	10/01/2021 12:08	WG1749660
(S) o-Terphenyl	*72.3*		*18.0-148*		*10/01/2021 12:08*	WG1749660

Method Blank (MB)

(MB) R3710307-1 09/29/21 08:20

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1408063-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1408063-04 09/29/21 08:20 • (DUP) R3710307-3 09/29/21 08:20

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	94.2	94.2	1	0.0469		10

Laboratory Control Sample (LCS)

(LCS) R3710307-2 09/29/21 08:20

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3709820-1 09/28/21 15:53

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R3709820-2 09/28/21 15:55

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
Mercury	0.500	0.463	92.7	80.0-120	

L1407461-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1407461-06 09/28/21 15:58 • (MS) R3709820-3 09/28/21 16:00 • (MSD) R3709820-4 09/28/21 16:03

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.500	1.74	4.93	2.50	638	152	1	75.0-125	E J5	E J3 J5	65.4	20

Method Blank (MB)

(MB) R3710033-1 09/29/21 08:48

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R3710033-2 09/29/21 08:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.436	87.2	80.0-120	

L1408072-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1408072-01 09/29/21 08:53 • (MS) R3710033-3 09/29/21 08:55 • (MSD) R3710033-4 09/29/21 08:58

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.500	ND	0.462	0.591	81.2	104	1	75.0-125		J3	24.5	20

Method Blank (MB)

(MB) R3710160-1 09/29/21 09:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R3710160-2 09/29/21 10:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.417	83.4	80.0-120	

L1407973-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1407973-31 09/29/21 10:03 • (MS) R3710160-3 09/29/21 10:05 • (MSD) R3710160-4 09/29/21 10:08

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.634	ND	0.512	0.650	80.8	103	1	75.0-125		J3	23.7	20

Method Blank (MB)

(MB) R3709919-1 09/28/21 20:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Antimony	U		0.544	2.00
Arsenic	U		0.518	2.00
Barium	U		0.0852	0.500
Beryllium	U		0.0315	0.200
Cadmium	U		0.0471	0.500
Chromium	U		0.133	1.00
Cobalt	U		0.0811	1.00
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Molybdenum	U		0.109	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Thallium	U		0.394	2.00
Vanadium	U		0.506	2.00
Zinc	U		0.832	5.00

Laboratory Control Sample (LCS)

(LCS) R3709919-2 09/28/21 20:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	100	96.2	96.2	80.0-120	
Arsenic	100	100	100	80.0-120	
Barium	100	104	104	80.0-120	
Beryllium	100	105	105	80.0-120	
Cadmium	100	98.2	98.2	80.0-120	
Chromium	100	99.1	99.1	80.0-120	
Cobalt	100	103	103	80.0-120	
Copper	100	105	105	80.0-120	
Lead	100	98.7	98.7	80.0-120	
Molybdenum	100	103	103	80.0-120	
Nickel	100	101	101	80.0-120	
Selenium	100	101	101	80.0-120	
Silver	20.0	18.6	93.2	80.0-120	
Thallium	100	94.7	94.7	80.0-120	
Vanadium	100	107	107	80.0-120	
Zinc	100	95.3	95.3	80.0-120	

L1407796-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1407796-03 09/28/21 21:00 • (MS) R3709919-5 09/28/21 21:08 • (MSD) R3709919-6 09/28/21 21:10

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	112	ND	77.5	75.6	69.5	67.8	1	75.0-125	J6	J6	2.51	20
Arsenic	112	13.2	111	108	87.4	85.3	1	75.0-125			2.16	20
Barium	112	185	314	311	116	113	1	75.0-125			1.10	20
Beryllium	112	0.416	103	104	91.6	92.9	1	75.0-125			1.33	20
Cadmium	112	0.949	97.2	97.5	86.3	86.5	1	75.0-125			0.292	20
Chromium	112	41.2	126	132	76.3	81.0	1	75.0-125			4.01	20
Cobalt	112	12.8	124	117	99.7	93.3	1	75.0-125			5.94	20
Copper	112	143	269	226	113	74.3	1	75.0-125		J6	17.3	20
Lead	112	85.8	191	168	94.7	73.3	1	75.0-125		J6	13.3	20
Molybdenum	112	0.688	90.8	94.8	80.8	84.4	1	75.0-125			4.33	20
Nickel	112	51.2	173	148	109	86.9	1	75.0-125			15.6	20
Selenium	112	ND	83.5	96.1	74.8	86.2	1	75.0-125	J6		14.1	20
Silver	22.3	ND	18.7	18.7	83.1	82.9	1	75.0-125			0.211	20
Thallium	112	ND	89.6	92.2	80.3	82.6	1	75.0-125			2.88	20
Vanadium	112	33.7	134	134	89.7	90.3	1	75.0-125			0.475	20
Zinc	112	286	367	313	72.8	24.4	1	75.0-125	J6	J6	15.9	20

Method Blank (MB)

(MB) R3710777-2 09/29/21 23:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C5 - C12	1.02	J	0.830	2.50
(S) a,a,a-Trifluorotoluene(FID)	*92.1*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3710777-1 09/29/21 23:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPHG C5 - C12	5.50	5.64	103	72.0-125	
(S) a,a,a-Trifluorotoluene(FID)			*115*	*77.0-120*	

L1408057-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1408057-02 09/30/21 00:17 • (MS) R3710777-3 09/30/21 09:22 • (MSD) R3710777-4 09/30/21 09:44

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPHG C5 - C12	203	4.83	145	154	69.3	73.4	25	10.0-141			5.58	29
(S) a,a,a-Trifluorotoluene(FID)					*108*	*108*		*77.0-120*				

Method Blank (MB)

(MB) R3711957-3 10/01/21 18:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0207	0.0500
Acrylonitrile	U		0.00202	0.0100
Benzene	U		0.000375	0.00100
Bromobenzene	U		0.000275	0.00100
Bromodichloromethane	U		0.000725	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00117	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon disulfide	U		0.000700	0.00100
Carbon tetrachloride	U		0.000248	0.00100
Chlorobenzene	U		0.000192	0.00100
Chlorodibromomethane	U		0.000224	0.00100
Chloroethane	U		0.00100	0.00500
Chloroform	U		0.00103	0.00500
Chloromethane	U		0.000650	0.00250
2-Chlorotoluene	U		0.000225	0.00100
4-Chlorotoluene	U		0.000691	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00190	0.00500
1,2-Dibromoethane	U		0.000250	0.00100
Dibromomethane	U		0.000350	0.00100
1,2-Dichlorobenzene	U		0.000425	0.00100
1,3-Dichlorobenzene	U		0.000600	0.00100
1,4-Dichlorobenzene	U		0.000830	0.00100
Dichlorodifluoromethane	U		0.000287	0.00500
1,1-Dichloroethane	U		0.000268	0.00100
1,2-Dichloroethane	U		0.000450	0.00100
1,1-Dichloroethene	U		0.000355	0.00100
cis-1,2-Dichloroethene	U		0.000475	0.00100
trans-1,2-Dichloroethene	U		0.000500	0.00100
1,2-Dichloropropane	U		0.000164	0.00100
1,1-Dichloropropene	U		0.000375	0.00100
1,3-Dichloropropane	U		0.000225	0.00100
cis-1,3-Dichloropropene	U		0.000425	0.00100
trans-1,3-Dichloropropene	U		0.000675	0.00100
2,2-Dichloropropane	U		0.000375	0.00100
Di-isopropyl ether	U		0.000221	0.00100
Ethanol	U		0.0490	0.100
Ethylbenzene	U		0.000300	0.00100

Method Blank (MB)

(MB) R3711957-3 10/01/21 18:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexachloro-1,3-butadiene	U		0.000342	0.00100
Isopropylbenzene	U		0.000425	0.00100
p-Isopropyltoluene	U		0.000204	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000950	0.0100
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00498	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000223	0.00100
1,1,1,2-Tetrachloroethane	U		0.000296	0.00100
1,1,2,2-Tetrachloroethane	U		0.000231	0.00100
Tetrachloroethene	U		0.000325	0.00100
Toluene	U		0.00123	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000426	0.00100
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000370	0.00100
1,1,2-Trichloroethane	U		0.000425	0.00100
Trichloroethene	U		0.000200	0.00100
1,2,3-Trichloropropane	U		0.000244	0.00250
1,2,3-Trimethylbenzene	U		0.000287	0.00100
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Vinyl chloride	U		0.000226	0.00100
Xylenes, Total	U		0.000500	0.00300
tert-Amyl Methyl Ether	U		0.000400	0.00100
Ethyl tert-butyl ether	U		0.000250	0.00100
tert-Butyl alcohol	U		0.00250	0.00500
t-Amyl Alcohol	U		0.00638	0.0500
(S) Toluene-d8	*117*			*75.0-131*
(S) 4-Bromofluorobenzene	*106*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3711957-1 10/01/21 16:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.125	0.122	97.6	10.0-160	
Acrylonitrile	0.125	0.108	86.4	45.0-153	
Benzene	0.0250	0.0208	83.2	70.0-123	
Bromobenzene	0.0250	0.0203	81.2	73.0-121	
Bromodichloromethane	0.0250	0.0209	83.6	73.0-121	
Bromoform	0.0250	0.0228	91.2	64.0-132	
Bromomethane	0.0250	0.0251	100	56.0-147	
n-Butylbenzene	0.0250	0.0215	86.0	68.0-135	
sec-Butylbenzene	0.0250	0.0210	84.0	74.0-130	
tert-Butylbenzene	0.0250	0.0207	82.8	75.0-127	
Carbon disulfide	0.0250	0.0212	84.8	56.0-133	
Carbon tetrachloride	0.0250	0.0217	86.8	66.0-128	
Chlorobenzene	0.0250	0.0224	89.6	76.0-128	
Chlorodibromomethane	0.0250	0.0230	92.0	74.0-127	
Chloroethane	0.0250	0.0220	88.0	61.0-134	
Chloroform	0.0250	0.0210	84.0	72.0-123	
Chloromethane	0.0250	0.0212	84.8	51.0-138	
2-Chlorotoluene	0.0250	0.0216	86.4	75.0-124	
4-Chlorotoluene	0.0250	0.0219	87.6	75.0-124	
1,2-Dibromo-3-Chloropropane	0.0250	0.0250	100	59.0-130	
1,2-Dibromoethane	0.0250	0.0242	96.8	74.0-128	
Dibromomethane	0.0250	0.0222	88.8	75.0-122	
1,2-Dichlorobenzene	0.0250	0.0226	90.4	76.0-124	
1,3-Dichlorobenzene	0.0250	0.0232	92.8	76.0-125	
1,4-Dichlorobenzene	0.0250	0.0227	90.8	77.0-121	
Dichlorodifluoromethane	0.0250	0.0213	85.2	43.0-156	
1,1-Dichloroethane	0.0250	0.0218	87.2	70.0-127	
1,2-Dichloroethane	0.0250	0.0214	85.6	65.0-131	
1,1-Dichloroethene	0.0250	0.0228	91.2	65.0-131	
cis-1,2-Dichloroethene	0.0250	0.0220	88.0	73.0-125	
trans-1,2-Dichloroethene	0.0250	0.0217	86.8	71.0-125	
1,2-Dichloropropane	0.0250	0.0216	86.4	74.0-125	
1,1-Dichloropropene	0.0250	0.0213	85.2	73.0-125	
1,3-Dichloropropane	0.0250	0.0233	93.2	80.0-125	
cis-1,3-Dichloropropene	0.0250	0.0219	87.6	76.0-127	
trans-1,3-Dichloropropene	0.0250	0.0210	84.0	73.0-127	
2,2-Dichloropropane	0.0250	0.0222	88.8	59.0-135	
Di-isopropyl ether	0.0250	0.0216	86.4	60.0-136	
Ethylbenzene	0.0250	0.0217	86.8	74.0-126	
Hexachloro-1,3-butadiene	0.0250	0.0206	82.4	57.0-150	

Laboratory Control Sample (LCS)

(LCS) R3711957-1 10/01/21 16:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Isopropylbenzene	0.0250	0.0215	86.0	72.0-127	
p-Isopropyltoluene	0.0250	0.0213	85.2	72.0-133	
2-Butanone (MEK)	0.125	0.109	87.2	30.0-160	
Methylene Chloride	0.0250	0.0220	88.0	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.125	0.133	106	56.0-143	
Methyl tert-butyl ether	0.0250	0.0179	71.6	66.0-132	
Naphthalene	0.0250	0.0235	94.0	59.0-130	
n-Propylbenzene	0.0250	0.0210	84.0	74.0-126	
Styrene	0.0250	0.0225	90.0	72.0-127	
1,1,1,2-Tetrachloroethane	0.0250	0.0225	90.0	74.0-129	
1,1,2,2-Tetrachloroethane	0.0250	0.0218	87.2	68.0-128	
Tetrachloroethene	0.0250	0.0207	82.8	70.0-136	
Toluene	0.0250	0.0211	84.4	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.0250	0.0217	86.8	61.0-139	
1,2,3-Trichlorobenzene	0.0250	0.0237	94.8	59.0-139	
1,2,4-Trichlorobenzene	0.0250	0.0249	99.6	62.0-137	
1,1,1-Trichloroethane	0.0250	0.0209	83.6	69.0-126	
1,1,2-Trichloroethane	0.0250	0.0232	92.8	78.0-123	
Trichloroethene	0.0250	0.0216	86.4	76.0-126	
1,2,3-Trichloropropane	0.0250	0.0231	92.4	67.0-129	
1,2,3-Trimethylbenzene	0.0250	0.0211	84.4	74.0-124	
1,2,4-Trimethylbenzene	0.0250	0.0208	83.2	70.0-126	
1,3,5-Trimethylbenzene	0.0250	0.0211	84.4	73.0-127	
Vinyl chloride	0.0250	0.0228	91.2	63.0-134	
Xylenes, Total	0.0750	0.0646	86.1	72.0-127	
t-Amyl Alcohol	0.125	0.160	128	26.0-160	
tert-Amyl Methyl Ether	0.0250	0.0218	87.2	66.0-135	
Ethyl tert-butyl ether	0.0250	0.0203	81.2	68.0-140	
ethanol	1.25	0.990	79.2	10.0-160	
tert-Butyl alcohol	0.125	0.127	102	15.0-160	
(S) Toluene-d8			*115*	*75.0-131*	
(S) 4-Bromofluorobenzene			*108*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*116*	*70.0-130*	

Method Blank (MB)

(MB) R3711951-4 10/03/21 18:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0207	0.0500
Acrylonitrile	U		0.00202	0.0100
Benzene	U		0.000375	0.00100
Bromobenzene	U		0.000275	0.00100
Bromodichloromethane	U		0.000725	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00117	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon disulfide	U		0.000700	0.00100
Carbon tetrachloride	U		0.000248	0.00100
Chlorobenzene	U		0.000192	0.00100
Chlorodibromomethane	U		0.000224	0.00100
Chloroethane	U		0.00100	0.00500
Chloroform	U		0.00103	0.00500
Chloromethane	U		0.000650	0.00250
2-Chlorotoluene	U		0.000225	0.00100
4-Chlorotoluene	U		0.000691	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00190	0.00500
1,2-Dibromoethane	U		0.000250	0.00100
Dibromomethane	U		0.000350	0.00100
1,2-Dichlorobenzene	U		0.000425	0.00100
1,3-Dichlorobenzene	U		0.000600	0.00100
1,4-Dichlorobenzene	U		0.000830	0.00100
Dichlorodifluoromethane	U		0.000287	0.00500
1,1-Dichloroethane	U		0.000268	0.00100
1,2-Dichloroethane	U		0.000450	0.00100
1,1-Dichloroethene	U		0.000355	0.00100
cis-1,2-Dichloroethene	U		0.000475	0.00100
trans-1,2-Dichloroethene	U		0.000500	0.00100
1,2-Dichloropropane	U		0.000164	0.00100
1,1-Dichloropropene	U		0.000375	0.00100
1,3-Dichloropropane	U		0.000225	0.00100
cis-1,3-Dichloropropene	U		0.000425	0.00100
trans-1,3-Dichloropropene	U		0.000675	0.00100
2,2-Dichloropropane	U		0.000375	0.00100
Di-isopropyl ether	U		0.000221	0.00100
Ethylbenzene	U		0.000300	0.00100
Hexachloro-1,3-butadiene	U		0.000342	0.00100

Method Blank (MB)

(MB) R3711951-4 10/03/21 18:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Isopropylbenzene	U		0.000425	0.00100
p-Isopropyltoluene	U		0.000204	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000950	0.0100
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00498	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000223	0.00100
1,1,1,2-Tetrachloroethane	U		0.000296	0.00100
1,1,2,2-Tetrachloroethane	U		0.000231	0.00100
Tetrachloroethene	U		0.000325	0.00100
Toluene	U		0.00123	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000426	0.00100
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000370	0.00100
1,1,2-Trichloroethane	U		0.000425	0.00100
Trichloroethene	U		0.000200	0.00100
Trichlorofluoromethane	U		0.000356	0.00500
1,2,3-Trichloropropane	U		0.000244	0.00250
1,2,3-Trimethylbenzene	U		0.000287	0.00100
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Vinyl chloride	U		0.000226	0.00100
Xylenes, Total	U		0.000500	0.00300
tert-Amyl Methyl Ether	U		0.000400	0.00100
Ethyl tert-butyl ether	U		0.000250	0.00100
tert-Butyl alcohol	U		0.00250	0.00500
t-Amyl Alcohol	U		0.00638	0.0500
Ethanol	U		0.0490	0.100
(S) Toluene-d8	*119*			*75.0-131*
(S) 4-Bromofluorobenzene	*105*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3711951-1 10/03/21 16:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.125	0.107	85.6	10.0-160	
Acrylonitrile	0.125	0.0977	78.2	45.0-153	
Benzene	0.0250	0.0214	85.6	70.0-123	
Bromobenzene	0.0250	0.0210	84.0	73.0-121	
Bromodichloromethane	0.0250	0.0218	87.2	73.0-121	
Bromoform	0.0250	0.0225	90.0	64.0-132	
Bromomethane	0.0250	0.0258	103	56.0-147	
n-Butylbenzene	0.0250	0.0228	91.2	68.0-135	
sec-Butylbenzene	0.0250	0.0220	88.0	74.0-130	
tert-Butylbenzene	0.0250	0.0217	86.8	75.0-127	
Carbon disulfide	0.0250	0.0199	79.6	56.0-133	
Carbon tetrachloride	0.0250	0.0220	88.0	66.0-128	
Chlorobenzene	0.0250	0.0228	91.2	76.0-128	
Chlorodibromomethane	0.0250	0.0233	93.2	74.0-127	
Chloroethane	0.0250	0.0249	99.6	61.0-134	
Chloroform	0.0250	0.0222	88.8	72.0-123	
Chloromethane	0.0250	0.0274	110	51.0-138	
2-Chlorotoluene	0.0250	0.0224	89.6	75.0-124	
4-Chlorotoluene	0.0250	0.0226	90.4	75.0-124	
1,2-Dibromo-3-Chloropropane	0.0250	0.0232	92.8	59.0-130	
1,2-Dibromoethane	0.0250	0.0233	93.2	74.0-128	
Dibromomethane	0.0250	0.0219	87.6	75.0-122	
1,2-Dichlorobenzene	0.0250	0.0236	94.4	76.0-124	
1,3-Dichlorobenzene	0.0250	0.0247	98.8	76.0-125	
1,4-Dichlorobenzene	0.0250	0.0241	96.4	77.0-121	
Dichlorodifluoromethane	0.0250	0.0253	101	43.0-156	
1,1-Dichloroethane	0.0250	0.0225	90.0	70.0-127	
1,2-Dichloroethane	0.0250	0.0220	88.0	65.0-131	
1,1-Dichloroethene	0.0250	0.0224	89.6	65.0-131	
cis-1,2-Dichloroethene	0.0250	0.0227	90.8	73.0-125	
trans-1,2-Dichloroethene	0.0250	0.0221	88.4	71.0-125	
1,2-Dichloropropane	0.0250	0.0220	88.0	74.0-125	
1,1-Dichloropropene	0.0250	0.0219	87.6	73.0-125	
1,3-Dichloropropane	0.0250	0.0228	91.2	80.0-125	
cis-1,3-Dichloropropene	0.0250	0.0228	91.2	76.0-127	
trans-1,3-Dichloropropene	0.0250	0.0216	86.4	73.0-127	
2,2-Dichloropropane	0.0250	0.0295	118	59.0-135	
Di-isopropyl ether	0.0250	0.0222	88.8	60.0-136	
Ethylbenzene	0.0250	0.0224	89.6	74.0-126	
Hexachloro-1,3-butadiene	0.0250	0.0227	90.8	57.0-150	

Laboratory Control Sample (LCS)

(LCS) R3711951-1 10/03/21 16:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Isopropylbenzene	0.0250	0.0228	91.2	72.0-127	
p-Isopropyltoluene	0.0250	0.0223	89.2	72.0-133	
2-Butanone (MEK)	0.125	0.0931	74.5	30.0-160	
Methylene Chloride	0.0250	0.0222	88.8	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.125	0.109	87.2	56.0-143	
Methyl tert-butyl ether	0.0250	0.0246	98.4	66.0-132	
Naphthalene	0.0250	0.0232	92.8	59.0-130	
n-Propylbenzene	0.0250	0.0217	86.8	74.0-126	
Styrene	0.0250	0.0231	92.4	72.0-127	
1,1,1,2-Tetrachloroethane	0.0250	0.0233	93.2	74.0-129	
1,1,2,2-Tetrachloroethane	0.0250	0.0206	82.4	68.0-128	
Tetrachloroethene	0.0250	0.0219	87.6	70.0-136	
Toluene	0.0250	0.0219	87.6	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.0250	0.0227	90.8	61.0-139	
1,2,3-Trichlorobenzene	0.0250	0.0250	100	59.0-139	
1,2,4-Trichlorobenzene	0.0250	0.0266	106	62.0-137	
1,1,1-Trichloroethane	0.0250	0.0230	92.0	69.0-126	
1,1,2-Trichloroethane	0.0250	0.0234	93.6	78.0-123	
Trichloroethene	0.0250	0.0225	90.0	76.0-126	
Trichlorofluoromethane	0.0250	0.0226	90.4	61.0-142	
1,2,3-Trichloropropane	0.0250	0.0216	86.4	67.0-129	
1,2,3-Trimethylbenzene	0.0250	0.0228	91.2	74.0-124	
1,2,4-Trimethylbenzene	0.0250	0.0219	87.6	70.0-126	
1,3,5-Trimethylbenzene	0.0250	0.0219	87.6	73.0-127	
tert-Amyl Methyl Ether	0.0250	0.0272	109	66.0-135	
Ethyl tert-butyl ether	0.0250	0.0264	106	68.0-140	
Vinyl chloride	0.0250	0.0247	98.8	63.0-134	
Xylenes, Total	0.0750	0.0675	90.0	72.0-127	
t-Amyl Alcohol	0.125	0.124	99.2	26.0-160	
ethanol	1.25	0.871	69.7	10.0-160	
tert-Butyl alcohol	0.125	0.0944	75.5	15.0-160	
(S) Toluene-d8			*114*	*75.0-131*	
(S) 4-Bromofluorobenzene			*106*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*116*	*70.0-130*	

Method Blank (MB)

(MB) R3712228-4 10/04/21 14:16

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Trichlorofluoromethane	U		0.000356	0.00500
(S) Toluene-d8	*116*			*75.0-131*
(S) 4-Bromofluorobenzene	*106*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3712228-1 10/04/21 12:16

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Trichlorofluoromethane	0.0250	0.0307	123	61.0-142	
(S) Toluene-d8			*114*	*75.0-131*	
(S) 4-Bromofluorobenzene			*110*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*116*	*70.0-130*	

Method Blank (MB)

(MB) R3711374-1 10/01/21 09:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C12-C22 Hydrocarbons	U		0.733	4.00
C22-C32 Hydrocarbons	U		1.33	4.00
C32-C40 Hydrocarbons	U		1.33	4.00
(S) o-Terphenyl	*81.1*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3711374-2 10/01/21 10:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C22-C32 Hydrocarbons	25.0	18.6	74.4	50.0-150	
C12-C22 Hydrocarbons	25.0	20.4	81.6	50.0-150	
(S) o-Terphenyl			*79.0*	*18.0-148*	

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Kleinfelder - Laguna Hills, CA

24411 Ridge Route Dr
Suite 225
Laguna Hills, CA 92653

Billing Information:
Project Manager- Paolo Dizon
24411 Ridge Route Dr
Suite 225
Laguna Hills, CA 92653

Pres Chk

Report to:
Project Manager

Email To: **@kleinfelder.com**

Project Description:

City/State Collected:

Please Circle: PT MT CT ET

Phone: **949-727-4466**

Client Project #

Lab Project #
KLEINICA-SANJOSE

Collected by (print): Brandon Connelly

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CAM17 Metals 8ozClr-NoPres	DRO/ORO-CA 8ozClr-NoPres	GRO-CA 40ml/NaHSO4/Syr/MeOH	VOCs+OXYs 8260 2ozClr-NoPres	VOCs+OXYs 8260 40ml/NaHSO4/Syr/MeOH	Remarks	Sample # (lab only)
KUP-10-2.5	G	SS	2.5	9-22-21	0840	2						Hold	-01
KUP-10-5		SS	5		0900	1						↓	02
KUP-10-10		SS	10		0910	1						↓	03
KUP-10-15		SS	15		0915	5	X	X	X	X	X		04
KUP-6-2.5		SS	2.5		0855	2						Hold	05
KUP-6-5		SS	5		1000	1						↓	06
KUP-6-10		SS	10		1005	5	X	X	X	X	X		07
KUP-6-15		SS	15		1010	1						Hold	08
KUP-5-2.5		SS	2.5		0945	2						↓	09
KUP-5-5		SS	5		1050	1						↓	10

Chain of Custody Page 1 of 2

Pace Analytical®

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

L1168863

J053

Acctnum: **KLEINICA**
Template: **T194931**
Prelogin: **P872696**
PM: **110 - Brian Ford**
PB:
Shipped Via:

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS X FedEx __ Courier _____

Tracking # 511744385614

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeOH TBR	If preservation required by Login: Date/Time
	9-22-21	16:30			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 2.5+0-2.5 6	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9-23-21 Time: 0915	Hold: Condition: NCF / OK

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.	PROJECT NAME	RECEIVING LAB:
	Costco Westgate W	Pace, TN

L.P. NO. (PO. NO.):

SAMPLERS: (Signature/Number) Brandon Connelly

INSTRUCTIONS/REMARKS: L1408063

ANALYSIS: Metals 17 | DRO/ORO-CA | GRO-CA | VOCs 8260

#	DATE MM/DD/YY	SAMPLE I.D. TIME HH-MM-SS	SAMPLE I.D.	MATRIX	NO. OF CONTAINERS	TYPE OF CONTAINERS	Metals 17	DRO/ORO-CA	GRO-CA	VOCs 8260	INSTRUCTIONS/REMARKS	
1	9-22-21	1055	KUP-5-10	SS	1						Hold	-11
2		1100	KUP-5-15	SS	5		X	X	X	X		12
3		1015	KUP-3-2.5		6		X	X	X	X	~~Hold~~ BC 9-22-21	13
4		1315	KUP-3-5		1						Hold	14
5		1320	KUP-3-10		1						↓	15
6		1325	KUP-3-15		1						↓	16
7		1105	KUP-9-2.5		6		X	X	X	X		17
8		1355	KUP-9-5		1						Hold	18
9		1400	KUP-9-10		1						↓	19
10		1405	KUP-9-15		1						↓	20
11		1025	KUP-4-2.5		6		X	X	X	X		21
12		1130	KUP-4-5		1						Hold	22
13		1135	KUP-4-10		1						↓	23
14		1140	KUP-4-15		1						↓	24
15		1138	KUP-8-2.5		6		X	X	X	X		25
16		1445	KUP-8-5		1						Hold	26
17		1450	KUP-8-10		1						↓	27
18		1455	KUP-8-15		1						↓	28
19		0800	TB-01-210922WR		1						Hold	29
20												

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	9-22-21 1630	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)

Instructions/Remarks:

Send Results To:
KLF - Laguna Hills
24411 Ridge Rt. Rd.
Suite 255
Laguna Hills, CA
Attn: Rob Dicon

ENV-02 REV 05/08)

White – Sampler Canary – Return Copy To Shipper Pink – Lab Copy

2.5 TR2.5 ADBu C0SQ51

CHAIN OF CUSTODY

COC № 10590

ANALYTICAL REPORT

October 04, 2021

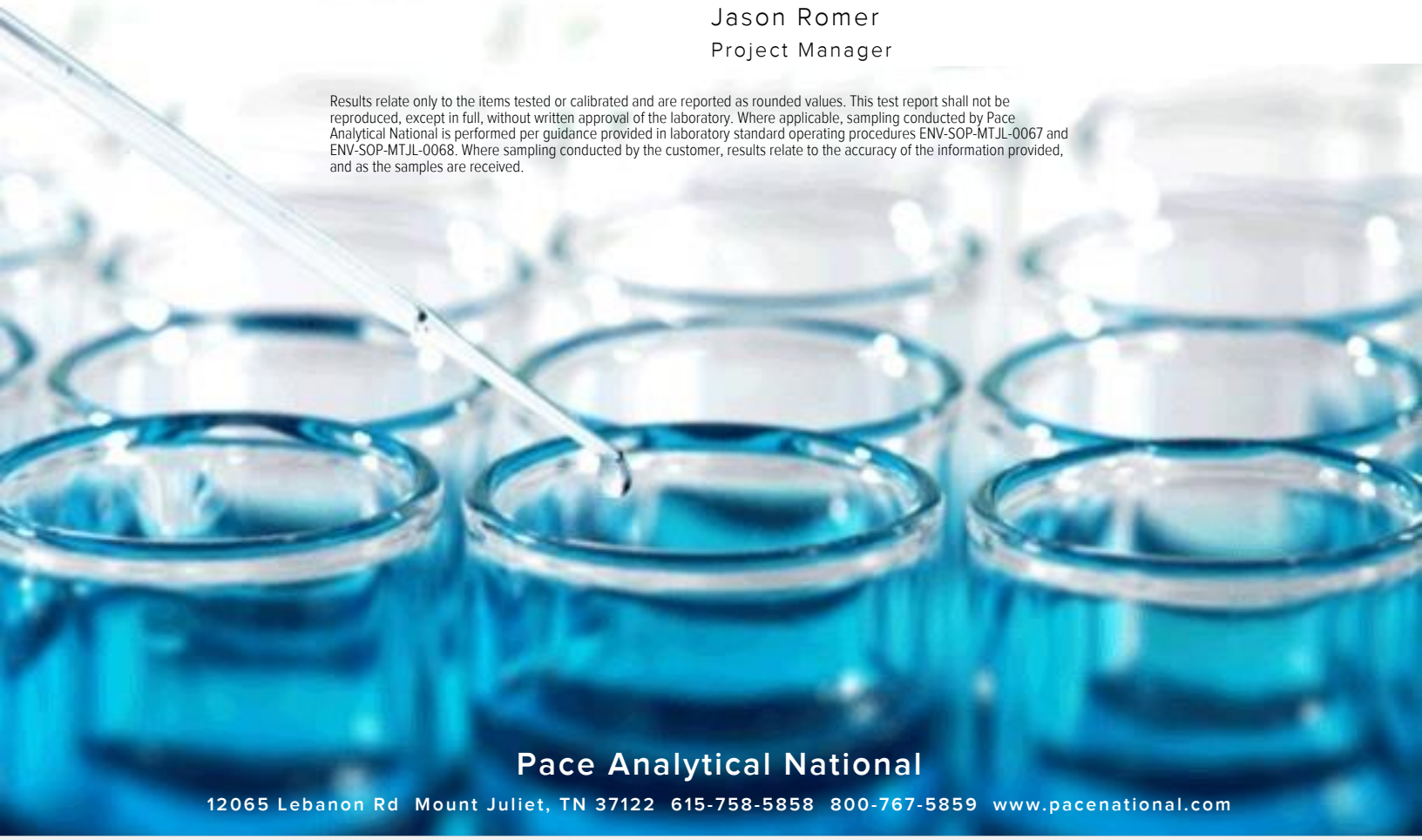
Kleinfelder - Laguna Hills, CA

Sample Delivery Group:	L1408112
Samples Received:	09/23/2021
Project Number:	20221076.001A
Description:	Costco Westgate W

Report To: Brandon Connelly
24411 Ridge Route Dr
Suite 225
Laguna Hills, CA 92653

Entire Report Reviewed By:

Jason Romer
Project Manager



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KVP-1-5 L1408112-02 Solid

Collected by: Brandon Connelly | Collected date/time: 09/22/21 12:50 | Received date/time: 09/23/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1747745	1	09/29/21 08:02	09/29/21 08:09	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1748049	1	09/28/21 17:57	09/29/21 10:54	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1748287	1	09/29/21 13:45	09/30/21 03:24	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1748298	25	09/22/21 12:50	09/30/21 08:16	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750403	1	09/22/21 12:50	10/03/21 20:32	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1749660	1	10/01/21 02:05	10/01/21 11:18	JDG	Mt. Juliet, TN

KVP-7-2.5 L1408112-05 Solid

Collected by: Brandon Connelly | Collected date/time: 09/22/21 12:50 | Received date/time: 09/23/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1747745	1	09/29/21 08:02	09/29/21 08:09	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1748049	1	09/28/21 17:57	09/29/21 10:56	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1748287	1	09/29/21 13:45	09/30/21 03:27	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1748298	25	09/22/21 12:50	09/30/21 08:38	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750403	1	09/22/21 12:50	10/03/21 22:14	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1749660	1	10/01/21 02:05	10/01/21 11:35	JDG	Mt. Juliet, TN

KVP-2-2.5 L1408112-09 Solid

Collected by: Brandon Connelly | Collected date/time: 09/22/21 12:50 | Received date/time: 09/23/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1747745	1	09/29/21 08:02	09/29/21 08:09	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1748049	1	09/28/21 17:57	09/29/21 10:59	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1748287	1	09/29/21 13:45	09/30/21 03:29	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1748298	25	09/22/21 12:50	09/30/21 09:00	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750403	1	09/22/21 12:50	10/03/21 23:36	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1749660	1	10/01/21 02:05	10/01/21 12:42	JDG	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.1		1	09/29/2021 08:09	WG1747745

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0747		0.0470	1	09/29/2021 10:54	WG1748049

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.35	1	09/30/2021 03:24	WG1748287
Arsenic	ND		2.35	1	09/30/2021 03:24	WG1748287
Barium	202		0.587	1	09/30/2021 03:24	WG1748287
Beryllium	0.687		0.235	1	09/30/2021 03:24	WG1748287
Cadmium	ND		0.587	1	09/30/2021 03:24	WG1748287
Chromium	56.7		1.17	1	09/30/2021 03:24	WG1748287
Cobalt	14.2		1.17	1	09/30/2021 03:24	WG1748287
Copper	37.2		2.35	1	09/30/2021 03:24	WG1748287
Lead	9.70		0.587	1	09/30/2021 03:24	WG1748287
Molybdenum	0.859		0.587	1	09/30/2021 03:24	WG1748287
Nickel	70.3		2.35	1	09/30/2021 03:24	WG1748287
Selenium	ND		2.35	1	09/30/2021 03:24	WG1748287
Silver	ND		1.17	1	09/30/2021 03:24	WG1748287
Thallium	ND		2.35	1	09/30/2021 03:24	WG1748287
Vanadium	56.7		2.35	1	09/30/2021 03:24	WG1748287
Zinc	74.6		5.87	1	09/30/2021 03:24	WG1748287

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPHG C5 - C12	ND		3.55	25	09/30/2021 08:16	WG1748298
(S) a,a,a-Trifluorotoluene(FID)	*93.6*		*77.0-120*		*09/30/2021 08:16*	WG1748298

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0587	1	10/03/2021 20:32	WG1750403
Acrylonitrile	ND		0.0117	1	10/03/2021 20:32	WG1750403
Benzene	ND		0.00117	1	10/03/2021 20:32	WG1750403
Bromobenzene	ND		0.00117	1	10/03/2021 20:32	WG1750403
Bromodichloromethane	ND		0.00117	1	10/03/2021 20:32	WG1750403
Bromoform	ND		0.00117	1	10/03/2021 20:32	WG1750403
Bromomethane	ND		0.00587	1	10/03/2021 20:32	WG1750403
n-Butylbenzene	ND		0.00117	1	10/03/2021 20:32	WG1750403
sec-Butylbenzene	ND		0.00117	1	10/03/2021 20:32	WG1750403
tert-Butylbenzene	ND		0.00117	1	10/03/2021 20:32	WG1750403
Carbon tetrachloride	ND		0.00117	1	10/03/2021 20:32	WG1750403
Carbon disulfide	ND		0.00117	1	10/03/2021 20:32	WG1750403
Chlorobenzene	ND		0.00117	1	10/03/2021 20:32	WG1750403
Chlorodibromomethane	ND		0.00117	1	10/03/2021 20:32	WG1750403
Chloroethane	ND		0.00587	1	10/03/2021 20:32	WG1750403
Chloroform	ND		0.00587	1	10/03/2021 20:32	WG1750403
Chloromethane	ND		0.00294	1	10/03/2021 20:32	WG1750403
2-Chlorotoluene	ND		0.00117	1	10/03/2021 20:32	WG1750403

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Chlorotoluene	ND		0.00117	1	10/03/2021 20:32	WG1750403
1,2-Dibromo-3-Chloropropane	ND		0.00587	1	10/03/2021 20:32	WG1750403
1,2-Dibromoethane	ND		0.00117	1	10/03/2021 20:32	WG1750403
Dibromomethane	ND		0.00117	1	10/03/2021 20:32	WG1750403
1,2-Dichlorobenzene	ND		0.00117	1	10/03/2021 20:32	WG1750403
1,3-Dichlorobenzene	ND		0.00117	1	10/03/2021 20:32	WG1750403
1,4-Dichlorobenzene	ND		0.00117	1	10/03/2021 20:32	WG1750403
Dichlorodifluoromethane	ND		0.00587	1	10/03/2021 20:32	WG1750403
1,1-Dichloroethane	ND		0.00117	1	10/03/2021 20:32	WG1750403
1,2-Dichloroethane	ND		0.00117	1	10/03/2021 20:32	WG1750403
1,1-Dichloroethene	ND		0.00117	1	10/03/2021 20:32	WG1750403
cis-1,2-Dichloroethene	ND		0.00117	1	10/03/2021 20:32	WG1750403
trans-1,2-Dichloroethene	ND		0.00117	1	10/03/2021 20:32	WG1750403
1,2-Dichloropropane	ND		0.00117	1	10/03/2021 20:32	WG1750403
1,1-Dichloropropene	ND		0.00117	1	10/03/2021 20:32	WG1750403
1,3-Dichloropropane	ND		0.00117	1	10/03/2021 20:32	WG1750403
cis-1,3-Dichloropropene	ND		0.00117	1	10/03/2021 20:32	WG1750403
trans-1,3-Dichloropropene	ND		0.00117	1	10/03/2021 20:32	WG1750403
2,2-Dichloropropane	ND		0.00117	1	10/03/2021 20:32	WG1750403
Ethylbenzene	ND		0.00117	1	10/03/2021 20:32	WG1750403
Hexachloro-1,3-butadiene	ND		0.00117	1	10/03/2021 20:32	WG1750403
Isopropylbenzene	ND		0.00117	1	10/03/2021 20:32	WG1750403
p-Isopropyltoluene	ND		0.00117	1	10/03/2021 20:32	WG1750403
2-Butanone (MEK)	ND		0.0117	1	10/03/2021 20:32	WG1750403
Methylene Chloride	ND		0.00587	1	10/03/2021 20:32	WG1750403
4-Methyl-2-pentanone (MIBK)	ND		0.0117	1	10/03/2021 20:32	WG1750403
Naphthalene	ND		0.00587	1	10/03/2021 20:32	WG1750403
n-Propylbenzene	ND		0.00117	1	10/03/2021 20:32	WG1750403
Styrene	ND		0.00117	1	10/03/2021 20:32	WG1750403
1,1,1,2-Tetrachloroethane	ND		0.00117	1	10/03/2021 20:32	WG1750403
1,1,2,2-Tetrachloroethane	ND		0.00117	1	10/03/2021 20:32	WG1750403
1,1,2-Trichlorotrifluoroethane	ND		0.00117	1	10/03/2021 20:32	WG1750403
Tetrachloroethene	ND		0.00117	1	10/03/2021 20:32	WG1750403
Toluene	ND		0.00587	1	10/03/2021 20:32	WG1750403
1,2,3-Trichlorobenzene	ND		0.00117	1	10/03/2021 20:32	WG1750403
1,2,4-Trichlorobenzene	ND		0.00117	1	10/03/2021 20:32	WG1750403
1,1,1-Trichloroethane	ND		0.00117	1	10/03/2021 20:32	WG1750403
1,1,2-Trichloroethane	ND		0.00117	1	10/03/2021 20:32	WG1750403
Trichloroethene	ND		0.00117	1	10/03/2021 20:32	WG1750403
Trichlorofluoromethane	ND		0.00587	1	10/03/2021 20:32	WG1750403
1,2,3-Trichloropropane	ND		0.00294	1	10/03/2021 20:32	WG1750403
1,2,4-Trimethylbenzene	ND		0.00117	1	10/03/2021 20:32	WG1750403
1,2,3-Trimethylbenzene	ND		0.00117	1	10/03/2021 20:32	WG1750403
1,3,5-Trimethylbenzene	ND		0.00117	1	10/03/2021 20:32	WG1750403
Vinyl chloride	ND		0.00117	1	10/03/2021 20:32	WG1750403
Xylenes, Total	ND		0.00352	1	10/03/2021 20:32	WG1750403
Di-isopropyl ether	ND		0.00117	1	10/03/2021 20:32	WG1750403
Ethanol	ND		0.117	1	10/03/2021 20:32	WG1750403
Ethyl tert-butyl ether	ND		0.00117	1	10/03/2021 20:32	WG1750403
Methyl tert-butyl ether	ND		0.00117	1	10/03/2021 20:32	WG1750403
t-Amyl Alcohol	ND		0.0587	1	10/03/2021 20:32	WG1750403
tert-Butyl alcohol	ND		0.00587	1	10/03/2021 20:32	WG1750403
tert-Amyl Methyl Ether	ND		0.00117	1	10/03/2021 20:32	WG1750403
(S) Toluene-d8	*116*		*75.0-131*		*10/03/2021 20:32*	WG1750403
(S) 4-Bromofluorobenzene	*104*		*67.0-138*		*10/03/2021 20:32*	WG1750403
(S) 1,2-Dichloroethane-d4	*114*		*70.0-130*		*10/03/2021 20:32*	WG1750403

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	ND		4.70	1	10/01/2021 11:18	WG1749660
C22-C32 Hydrocarbons	ND		4.70	1	10/01/2021 11:18	WG1749660
C32-C40 Hydrocarbons	ND		4.70	1	10/01/2021 11:18	WG1749660
(S) o-Terphenyl	*49.1*		*18.0-148*		*10/01/2021 11:18*	WG1749660

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.1		1	09/29/2021 08:09	WG1747745

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0584		0.0459	1	09/29/2021 10:56	WG1748049

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.30	1	09/30/2021 03:27	WG1748287
Arsenic	2.46		2.30	1	09/30/2021 03:27	WG1748287
Barium	215		0.574	1	09/30/2021 03:27	WG1748287
Beryllium	0.799		0.230	1	09/30/2021 03:27	WG1748287
Cadmium	ND		0.574	1	09/30/2021 03:27	WG1748287
Chromium	54.2		1.15	1	09/30/2021 03:27	WG1748287
Cobalt	16.3		1.15	1	09/30/2021 03:27	WG1748287
Copper	42.4		2.30	1	09/30/2021 03:27	WG1748287
Lead	12.9		0.574	1	09/30/2021 03:27	WG1748287
Molybdenum	0.782		0.574	1	09/30/2021 03:27	WG1748287
Nickel	68.7		2.30	1	09/30/2021 03:27	WG1748287
Selenium	ND		2.30	1	09/30/2021 03:27	WG1748287
Silver	ND		1.15	1	09/30/2021 03:27	WG1748287
Thallium	ND		2.30	1	09/30/2021 03:27	WG1748287
Vanadium	58.1		2.30	1	09/30/2021 03:27	WG1748287
Zinc	78.2		5.74	1	09/30/2021 03:27	WG1748287

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPHG C5 - C12	ND		3.36	25	09/30/2021 08:38	WG1748298
(S) a,a,a-Trifluorotoluene(FID)	*92.6*		*77.0-120*		*09/30/2021 08:38*	WG1748298

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0574	1	10/03/2021 22:14	WG1750403
Acrylonitrile	ND		0.0115	1	10/03/2021 22:14	WG1750403
Benzene	ND		0.00115	1	10/03/2021 22:14	WG1750403
Bromobenzene	ND		0.00115	1	10/03/2021 22:14	WG1750403
Bromodichloromethane	ND		0.00115	1	10/03/2021 22:14	WG1750403
Bromoform	ND		0.00115	1	10/03/2021 22:14	WG1750403
Bromomethane	ND		0.00574	1	10/03/2021 22:14	WG1750403
n-Butylbenzene	ND		0.00115	1	10/03/2021 22:14	WG1750403
sec-Butylbenzene	ND		0.00115	1	10/03/2021 22:14	WG1750403
tert-Butylbenzene	ND		0.00115	1	10/03/2021 22:14	WG1750403
Carbon tetrachloride	ND		0.00115	1	10/03/2021 22:14	WG1750403
Carbon disulfide	ND		0.00115	1	10/03/2021 22:14	WG1750403
Chlorobenzene	ND		0.00115	1	10/03/2021 22:14	WG1750403
Chlorodibromomethane	ND		0.00115	1	10/03/2021 22:14	WG1750403
Chloroethane	ND		0.00574	1	10/03/2021 22:14	WG1750403
Chloroform	ND		0.00574	1	10/03/2021 22:14	WG1750403
Chloromethane	ND		0.00287	1	10/03/2021 22:14	WG1750403
2-Chlorotoluene	ND		0.00115	1	10/03/2021 22:14	WG1750403

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Chlorotoluene	ND		0.00115	1	10/03/2021 22:14	WG1750403
1,2-Dibromo-3-Chloropropane	ND		0.00574	1	10/03/2021 22:14	WG1750403
1,2-Dibromoethane	ND		0.00115	1	10/03/2021 22:14	WG1750403
Dibromomethane	ND		0.00115	1	10/03/2021 22:14	WG1750403
1,2-Dichlorobenzene	ND		0.00115	1	10/03/2021 22:14	WG1750403
1,3-Dichlorobenzene	ND		0.00115	1	10/03/2021 22:14	WG1750403
1,4-Dichlorobenzene	ND		0.00115	1	10/03/2021 22:14	WG1750403
Dichlorodifluoromethane	ND		0.00574	1	10/03/2021 22:14	WG1750403
1,1-Dichloroethane	ND		0.00115	1	10/03/2021 22:14	WG1750403
1,2-Dichloroethane	ND		0.00115	1	10/03/2021 22:14	WG1750403
1,1-Dichloroethene	ND		0.00115	1	10/03/2021 22:14	WG1750403
cis-1,2-Dichloroethene	ND		0.00115	1	10/03/2021 22:14	WG1750403
trans-1,2-Dichloroethene	ND		0.00115	1	10/03/2021 22:14	WG1750403
1,2-Dichloropropane	ND		0.00115	1	10/03/2021 22:14	WG1750403
1,1-Dichloropropene	ND		0.00115	1	10/03/2021 22:14	WG1750403
1,3-Dichloropropane	ND		0.00115	1	10/03/2021 22:14	WG1750403
cis-1,3-Dichloropropene	ND		0.00115	1	10/03/2021 22:14	WG1750403
trans-1,3-Dichloropropene	ND		0.00115	1	10/03/2021 22:14	WG1750403
2,2-Dichloropropane	ND		0.00115	1	10/03/2021 22:14	WG1750403
Ethylbenzene	ND		0.00115	1	10/03/2021 22:14	WG1750403
Hexachloro-1,3-butadiene	ND		0.00115	1	10/03/2021 22:14	WG1750403
Isopropylbenzene	ND		0.00115	1	10/03/2021 22:14	WG1750403
p-Isopropyltoluene	ND		0.00115	1	10/03/2021 22:14	WG1750403
2-Butanone (MEK)	ND		0.0115	1	10/03/2021 22:14	WG1750403
Methylene Chloride	ND		0.00574	1	10/03/2021 22:14	WG1750403
4-Methyl-2-pentanone (MIBK)	ND		0.0115	1	10/03/2021 22:14	WG1750403
Naphthalene	ND		0.00574	1	10/03/2021 22:14	WG1750403
n-Propylbenzene	ND		0.00115	1	10/03/2021 22:14	WG1750403
Styrene	ND		0.00115	1	10/03/2021 22:14	WG1750403
1,1,1,2-Tetrachloroethane	ND		0.00115	1	10/03/2021 22:14	WG1750403
1,1,2,2-Tetrachloroethane	ND		0.00115	1	10/03/2021 22:14	WG1750403
1,1,2-Trichlorotrifluoroethane	ND		0.00115	1	10/03/2021 22:14	WG1750403
Tetrachloroethene	ND		0.00115	1	10/03/2021 22:14	WG1750403
Toluene	ND		0.00574	1	10/03/2021 22:14	WG1750403
1,2,3-Trichlorobenzene	ND		0.00115	1	10/03/2021 22:14	WG1750403
1,2,4-Trichlorobenzene	ND		0.00115	1	10/03/2021 22:14	WG1750403
1,1,1-Trichloroethane	ND		0.00115	1	10/03/2021 22:14	WG1750403
1,1,2-Trichloroethane	ND		0.00115	1	10/03/2021 22:14	WG1750403
Trichloroethene	ND		0.00115	1	10/03/2021 22:14	WG1750403
Trichlorofluoromethane	ND		0.00574	1	10/03/2021 22:14	WG1750403
1,2,3-Trichloropropane	ND		0.00287	1	10/03/2021 22:14	WG1750403
1,2,4-Trimethylbenzene	ND		0.00115	1	10/03/2021 22:14	WG1750403
1,2,3-Trimethylbenzene	ND		0.00115	1	10/03/2021 22:14	WG1750403
1,3,5-Trimethylbenzene	ND		0.00115	1	10/03/2021 22:14	WG1750403
Vinyl chloride	ND		0.00115	1	10/03/2021 22:14	WG1750403
Xylenes, Total	ND		0.00344	1	10/03/2021 22:14	WG1750403
Di-isopropyl ether	ND		0.00115	1	10/03/2021 22:14	WG1750403
Ethanol	ND		0.115	1	10/03/2021 22:14	WG1750403
Ethyl tert-butyl ether	ND		0.00115	1	10/03/2021 22:14	WG1750403
Methyl tert-butyl ether	ND		0.00115	1	10/03/2021 22:14	WG1750403
t-Amyl Alcohol	ND		0.0574	1	10/03/2021 22:14	WG1750403
tert-Butyl alcohol	ND		0.00574	1	10/03/2021 22:14	WG1750403
tert-Amyl Methyl Ether	ND		0.00115	1	10/03/2021 22:14	WG1750403
(S) Toluene-d8	*112*		*75.0-131*		*10/03/2021 22:14*	WG1750403
(S) 4-Bromofluorobenzene	*107*		*67.0-138*		*10/03/2021 22:14*	WG1750403
(S) 1,2-Dichloroethane-d4	*116*		*70.0-130*		*10/03/2021 22:14*	WG1750403

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	ND		4.59	1	10/01/2021 11:35	WG1749660
C22-C32 Hydrocarbons	ND		4.59	1	10/01/2021 11:35	WG1749660
C32-C40 Hydrocarbons	ND		4.59	1	10/01/2021 11:35	WG1749660
(S) o-Terphenyl	*45.7*		*18.0-148*		*10/01/2021 11:35*	WG1749660

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.3		1	09/29/2021 08:09	WG1747745

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0676		0.0433	1	09/29/2021 10:59	WG1748049

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.17	1	09/30/2021 03:29	WG1748287
Arsenic	3.01		2.17	1	09/30/2021 03:29	WG1748287
Barium	189		0.541	1	09/30/2021 03:29	WG1748287
Beryllium	0.590		0.217	1	09/30/2021 03:29	WG1748287
Cadmium	0.544		0.541	1	09/30/2021 03:29	WG1748287
Chromium	40.3		1.08	1	09/30/2021 03:29	WG1748287
Cobalt	12.2		1.08	1	09/30/2021 03:29	WG1748287
Copper	38.4		2.17	1	09/30/2021 03:29	WG1748287
Lead	22.9		0.541	1	09/30/2021 03:29	WG1748287
Molybdenum	0.622		0.541	1	09/30/2021 03:29	WG1748287
Nickel	48.8		2.17	1	09/30/2021 03:29	WG1748287
Selenium	ND		2.17	1	09/30/2021 03:29	WG1748287
Silver	ND		1.08	1	09/30/2021 03:29	WG1748287
Thallium	ND		2.17	1	09/30/2021 03:29	WG1748287
Vanadium	49.7		2.17	1	09/30/2021 03:29	WG1748287
Zinc	81.6		5.41	1	09/30/2021 03:29	WG1748287

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPHG C5 - C12	ND		2.95	25	09/30/2021 09:00	WG1748298
(S) a,a,a-Trifluorotoluene(FID)	*92.2*		*77.0-120*		*09/30/2021 09:00*	WG1748298

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	0.0936		0.0541	1	10/03/2021 23:36	WG1750403
Acrylonitrile	ND		0.0108	1	10/03/2021 23:36	WG1750403
Benzene	ND		0.00108	1	10/03/2021 23:36	WG1750403
Bromobenzene	ND		0.00108	1	10/03/2021 23:36	WG1750403
Bromodichloromethane	ND		0.00108	1	10/03/2021 23:36	WG1750403
Bromoform	ND		0.00108	1	10/03/2021 23:36	WG1750403
Bromomethane	ND		0.00541	1	10/03/2021 23:36	WG1750403
n-Butylbenzene	ND		0.00108	1	10/03/2021 23:36	WG1750403
sec-Butylbenzene	ND		0.00108	1	10/03/2021 23:36	WG1750403
tert-Butylbenzene	ND		0.00108	1	10/03/2021 23:36	WG1750403
Carbon tetrachloride	ND		0.00108	1	10/03/2021 23:36	WG1750403
Carbon disulfide	ND		0.00108	1	10/03/2021 23:36	WG1750403
Chlorobenzene	ND		0.00108	1	10/03/2021 23:36	WG1750403
Chlorodibromomethane	ND		0.00108	1	10/03/2021 23:36	WG1750403
Chloroethane	ND		0.00541	1	10/03/2021 23:36	WG1750403
Chloroform	ND		0.00541	1	10/03/2021 23:36	WG1750403
Chloromethane	ND		0.00271	1	10/03/2021 23:36	WG1750403
2-Chlorotoluene	ND		0.00108	1	10/03/2021 23:36	WG1750403

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Chlorotoluene	ND		0.00108	1	10/03/2021 23:36	WG1750403
1,2-Dibromo-3-Chloropropane	ND		0.00541	1	10/03/2021 23:36	WG1750403
1,2-Dibromoethane	ND		0.00108	1	10/03/2021 23:36	WG1750403
Dibromomethane	ND		0.00108	1	10/03/2021 23:36	WG1750403
1,2-Dichlorobenzene	ND		0.00108	1	10/03/2021 23:36	WG1750403
1,3-Dichlorobenzene	ND		0.00108	1	10/03/2021 23:36	WG1750403
1,4-Dichlorobenzene	ND		0.00108	1	10/03/2021 23:36	WG1750403
Dichlorodifluoromethane	ND		0.00541	1	10/03/2021 23:36	WG1750403
1,1-Dichloroethane	ND		0.00108	1	10/03/2021 23:36	WG1750403
1,2-Dichloroethane	ND		0.00108	1	10/03/2021 23:36	WG1750403
1,1-Dichloroethene	ND		0.00108	1	10/03/2021 23:36	WG1750403
cis-1,2-Dichloroethene	ND		0.00108	1	10/03/2021 23:36	WG1750403
trans-1,2-Dichloroethene	ND		0.00108	1	10/03/2021 23:36	WG1750403
1,2-Dichloropropane	ND		0.00108	1	10/03/2021 23:36	WG1750403
1,1-Dichloropropene	ND		0.00108	1	10/03/2021 23:36	WG1750403
1,3-Dichloropropane	ND		0.00108	1	10/03/2021 23:36	WG1750403
cis-1,3-Dichloropropene	ND		0.00108	1	10/03/2021 23:36	WG1750403
trans-1,3-Dichloropropene	ND		0.00108	1	10/03/2021 23:36	WG1750403
2,2-Dichloropropane	ND		0.00108	1	10/03/2021 23:36	WG1750403
Ethylbenzene	ND		0.00108	1	10/03/2021 23:36	WG1750403
Hexachloro-1,3-butadiene	ND		0.00108	1	10/03/2021 23:36	WG1750403
Isopropylbenzene	ND		0.00108	1	10/03/2021 23:36	WG1750403
p-Isopropyltoluene	ND		0.00108	1	10/03/2021 23:36	WG1750403
2-Butanone (MEK)	0.0144		0.0108	1	10/03/2021 23:36	WG1750403
Methylene Chloride	ND		0.00541	1	10/03/2021 23:36	WG1750403
4-Methyl-2-pentanone (MIBK)	ND		0.0108	1	10/03/2021 23:36	WG1750403
Naphthalene	ND		0.00541	1	10/03/2021 23:36	WG1750403
n-Propylbenzene	ND		0.00108	1	10/03/2021 23:36	WG1750403
Styrene	ND		0.00108	1	10/03/2021 23:36	WG1750403
1,1,1,2-Tetrachloroethane	ND		0.00108	1	10/03/2021 23:36	WG1750403
1,1,2,2-Tetrachloroethane	ND		0.00108	1	10/03/2021 23:36	WG1750403
1,1,2-Trichlorotrifluoroethane	ND		0.00108	1	10/03/2021 23:36	WG1750403
Tetrachloroethene	ND		0.00108	1	10/03/2021 23:36	WG1750403
Toluene	ND		0.00541	1	10/03/2021 23:36	WG1750403
1,2,3-Trichlorobenzene	ND		0.00108	1	10/03/2021 23:36	WG1750403
1,2,4-Trichlorobenzene	ND		0.00108	1	10/03/2021 23:36	WG1750403
1,1,1-Trichloroethane	ND		0.00108	1	10/03/2021 23:36	WG1750403
1,1,2-Trichloroethane	ND		0.00108	1	10/03/2021 23:36	WG1750403
Trichloroethene	ND		0.00108	1	10/03/2021 23:36	WG1750403
Trichlorofluoromethane	ND		0.00541	1	10/03/2021 23:36	WG1750403
1,2,3-Trichloropropane	ND		0.00271	1	10/03/2021 23:36	WG1750403
1,2,4-Trimethylbenzene	ND		0.00108	1	10/03/2021 23:36	WG1750403
1,2,3-Trimethylbenzene	ND		0.00108	1	10/03/2021 23:36	WG1750403
1,3,5-Trimethylbenzene	ND		0.00108	1	10/03/2021 23:36	WG1750403
Vinyl chloride	ND		0.00108	1	10/03/2021 23:36	WG1750403
Xylenes, Total	ND		0.00325	1	10/03/2021 23:36	WG1750403
Di-isopropyl ether	ND		0.00108	1	10/03/2021 23:36	WG1750403
Ethanol	ND		0.108	1	10/03/2021 23:36	WG1750403
Ethyl tert-butyl ether	ND		0.00108	1	10/03/2021 23:36	WG1750403
Methyl tert-butyl ether	ND		0.00108	1	10/03/2021 23:36	WG1750403
t-Amyl Alcohol	ND		0.0541	1	10/03/2021 23:36	WG1750403
tert-Butyl alcohol	ND		0.00541	1	10/03/2021 23:36	WG1750403
tert-Amyl Methyl Ether	ND		0.00108	1	10/03/2021 23:36	WG1750403
(S) Toluene-d8	*115*		*75.0-131*		*10/03/2021 23:36*	WG1750403
(S) 4-Bromofluorobenzene	*106*		*67.0-138*		*10/03/2021 23:36*	WG1750403
(S) 1,2-Dichloroethane-d4	*115*		*70.0-130*		*10/03/2021 23:36*	WG1750403

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	5.23		4.33	1	10/01/2021 12:42	WG1749660
C22-C32 Hydrocarbons	16.6		4.33	1	10/01/2021 12:42	WG1749660
C32-C40 Hydrocarbons	7.66		4.33	1	10/01/2021 12:42	WG1749660
(S) o-Terphenyl	*73.1*		*18.0-148*		*10/01/2021 12:42*	WG1749660

Method Blank (MB)

(MB) R3710306-1 09/29/21 08:09

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1408088-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1408088-04 09/29/21 08:09 • (DUP) R3710306-3 09/29/21 08:09

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	80.8	76.5	1	5.53		10

Laboratory Control Sample (LCS)

(LCS) R3710306-2 09/29/21 08:09

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

QUALITY CONTROL SUMMARY

L1408112-02,05,09

Method Blank (MB)

(MB) R3710160-1 09/29/21 09:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R3710160-2 09/29/21 10:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.417	83.4	80.0-120	

L1407973-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1407973-31 09/29/21 10:03 • (MS) R3710160-3 09/29/21 10:05 • (MSD) R3710160-4 09/29/21 10:08

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.500	ND	0.404	0.513	80.8	103	1	75.0-125		J3	23.7	20

QUALITY CONTROL SUMMARY

L1408112-02,05,09

Method Blank (MB)

(MB) R3710547-1 09/30/21 02:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Antimony	U		0.544	2.00
Arsenic	U		0.518	2.00
Barium	U		0.0852	0.500
Beryllium	U		0.0315	0.200
Cadmium	U		0.0471	0.500
Chromium	U		0.133	1.00
Cobalt	U		0.0811	1.00
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Molybdenum	U		0.109	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Thallium	U		0.394	2.00
Vanadium	U		0.506	2.00
Zinc	U		0.832	5.00

Laboratory Control Sample (LCS)

(LCS) R3710547-2 09/30/21 02:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	100	93.9	93.9	80.0-120	
Arsenic	100	93.9	93.9	80.0-120	
Barium	100	101	101	80.0-120	
Beryllium	100	97.7	97.7	80.0-120	
Cadmium	100	96.6	96.6	80.0-120	
Chromium	100	99.8	99.8	80.0-120	
Cobalt	100	99.6	99.6	80.0-120	
Copper	100	101	101	80.0-120	
Lead	100	97.0	97.0	80.0-120	
Molybdenum	100	103	103	80.0-120	
Nickel	100	99.2	99.2	80.0-120	
Selenium	100	100	100	80.0-120	
Silver	20.0	17.9	89.6	80.0-120	
Thallium	100	98.3	98.3	80.0-120	
Vanadium	100	100	100	80.0-120	
Zinc	100	96.2	96.2	80.0-120	

L1408057-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1408057-15 09/30/21 02:22 • (MS) R3710547-5 09/30/21 02:29 • (MSD) R3710547-6 09/30/21 02:32

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	129	ND	103	90.9	79.5	70.3	1	75.0-125		J6	12.4	20
Arsenic	129	ND	130	114	99.4	87.5	1	75.0-125			12.6	20
Barium	129	19.2	155	138	105	91.9	1	75.0-125			11.9	20
Beryllium	129	ND	135	120	105	93.1	1	75.0-125			11.7	20
Cadmium	129	ND	132	116	102	89.8	1	75.0-125			12.8	20
Chromium	129	6.58	139	123	103	90.3	1	75.0-125			12.2	20
Cobalt	129	1.46	140	124	107	94.5	1	75.0-125			12.3	20
Copper	129	7.05	145	128	107	93.6	1	75.0-125			12.4	20
Lead	129	ND	133	118	103	91.4	1	75.0-125			12.1	20
Molybdenum	129	ND	137	121	106	93.1	1	75.0-125			12.6	20
Nickel	129	6.01	143	127	106	93.7	1	75.0-125			11.7	20
Selenium	129	ND	137	121	106	93.9	1	75.0-125			12.0	20
Silver	25.9	ND	24.8	21.9	96.0	84.7	1	75.0-125			12.5	20
Thallium	129	ND	133	116	103	89.7	1	75.0-125			13.4	20
Vanadium	129	20.7	157	141	105	93.0	1	75.0-125			10.6	20
Zinc	129	14.2	143	128	99.5	87.8	1	75.0-125			11.2	20

Method Blank (MB)

(MB) R3710777-2 09/29/21 23:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C5 - C12	1.02	J	0.830	2.50
(S) a,a,a-Trifluorotoluene(FID)	*92.1*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3710777-1 09/29/21 23:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPHG C5 - C12	5.50	5.64	103	72.0-125	
(S) a,a,a-Trifluorotoluene(FID)			*115*	*77.0-120*	

L1408057-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1408057-02 09/30/21 00:17 • (MS) R3710777-3 09/30/21 09:22 • (MSD) R3710777-4 09/30/21 09:44

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPHG C5 - C12	203	4.83	145	154	69.3	73.4	25	10.0-141			5.58	29
(S) a,a,a-Trifluorotoluene(FID)					*108*	*108*		*77.0-120*				

Method Blank (MB)

(MB) R3711951-4 10/03/21 18:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0207	0.0500
Acrylonitrile	U		0.00202	0.0100
Benzene	U		0.000375	0.00100
Bromobenzene	U		0.000275	0.00100
Bromodichloromethane	U		0.000725	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00117	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon disulfide	U		0.000700	0.00100
Carbon tetrachloride	U		0.000248	0.00100
Chlorobenzene	U		0.000192	0.00100
Chlorodibromomethane	U		0.000224	0.00100
Chloroethane	U		0.00100	0.00500
Chloroform	U		0.00103	0.00500
Chloromethane	U		0.000650	0.00250
2-Chlorotoluene	U		0.000225	0.00100
4-Chlorotoluene	U		0.000691	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00190	0.00500
1,2-Dibromoethane	U		0.000250	0.00100
Dibromomethane	U		0.000350	0.00100
1,2-Dichlorobenzene	U		0.000425	0.00100
1,3-Dichlorobenzene	U		0.000600	0.00100
1,4-Dichlorobenzene	U		0.000830	0.00100
Dichlorodifluoromethane	U		0.000287	0.00500
1,1-Dichloroethane	U		0.000268	0.00100
1,2-Dichloroethane	U		0.000450	0.00100
1,1-Dichloroethene	U		0.000355	0.00100
cis-1,2-Dichloroethene	U		0.000475	0.00100
trans-1,2-Dichloroethene	U		0.000500	0.00100
1,2-Dichloropropane	U		0.000164	0.00100
1,1-Dichloropropene	U		0.000375	0.00100
1,3-Dichloropropane	U		0.000225	0.00100
cis-1,3-Dichloropropene	U		0.000425	0.00100
trans-1,3-Dichloropropene	U		0.000675	0.00100
2,2-Dichloropropane	U		0.000375	0.00100
Di-isopropyl ether	U		0.000221	0.00100
Ethylbenzene	U		0.000300	0.00100
Hexachloro-1,3-butadiene	U		0.000342	0.00100

Method Blank (MB)

(MB) R3711951-4 10/03/21 18:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Isopropylbenzene	U		0.000425	0.00100
p-Isopropyltoluene	U		0.000204	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000950	0.0100
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00498	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000223	0.00100
1,1,1,2-Tetrachloroethane	U		0.000296	0.00100
1,1,2,2-Tetrachloroethane	U		0.000231	0.00100
Tetrachloroethene	U		0.000325	0.00100
Toluene	U		0.00123	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000426	0.00100
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000370	0.00100
1,1,2-Trichloroethane	U		0.000425	0.00100
Trichloroethene	U		0.000200	0.00100
Trichlorofluoromethane	U		0.000356	0.00500
1,2,3-Trichloropropane	U		0.000244	0.00250
1,2,3-Trimethylbenzene	U		0.000287	0.00100
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Vinyl chloride	U		0.000226	0.00100
Xylenes, Total	U		0.000500	0.00300
tert-Amyl Methyl Ether	U		0.000400	0.00100
Ethyl tert-butyl ether	U		0.000250	0.00100
tert-Butyl alcohol	U		0.00250	0.00500
t-Amyl Alcohol	U		0.00638	0.0500
Ethanol	U		0.0490	0.100
(S) Toluene-d8	*119*			*75.0-131*
(S) 4-Bromofluorobenzene	*105*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3711951-1 10/03/21 16:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.125	0.107	85.6	10.0-160	
Acrylonitrile	0.125	0.0977	78.2	45.0-153	
Benzene	0.0250	0.0214	85.6	70.0-123	
Bromobenzene	0.0250	0.0210	84.0	73.0-121	
Bromodichloromethane	0.0250	0.0218	87.2	73.0-121	
Bromoform	0.0250	0.0225	90.0	64.0-132	
Bromomethane	0.0250	0.0258	103	56.0-147	
n-Butylbenzene	0.0250	0.0228	91.2	68.0-135	
sec-Butylbenzene	0.0250	0.0220	88.0	74.0-130	
tert-Butylbenzene	0.0250	0.0217	86.8	75.0-127	
Carbon disulfide	0.0250	0.0199	79.6	56.0-133	
Carbon tetrachloride	0.0250	0.0220	88.0	66.0-128	
Chlorobenzene	0.0250	0.0228	91.2	76.0-128	
Chlorodibromomethane	0.0250	0.0233	93.2	74.0-127	
Chloroethane	0.0250	0.0249	99.6	61.0-134	
Chloroform	0.0250	0.0222	88.8	72.0-123	
Chloromethane	0.0250	0.0274	110	51.0-138	
2-Chlorotoluene	0.0250	0.0224	89.6	75.0-124	
4-Chlorotoluene	0.0250	0.0226	90.4	75.0-124	
1,2-Dibromo-3-Chloropropane	0.0250	0.0232	92.8	59.0-130	
1,2-Dibromoethane	0.0250	0.0233	93.2	74.0-128	
Dibromomethane	0.0250	0.0219	87.6	75.0-122	
1,2-Dichlorobenzene	0.0250	0.0236	94.4	76.0-124	
1,3-Dichlorobenzene	0.0250	0.0247	98.8	76.0-125	
1,4-Dichlorobenzene	0.0250	0.0241	96.4	77.0-121	
Dichlorodifluoromethane	0.0250	0.0253	101	43.0-156	
1,1-Dichloroethane	0.0250	0.0225	90.0	70.0-127	
1,2-Dichloroethane	0.0250	0.0220	88.0	65.0-131	
1,1-Dichloroethene	0.0250	0.0224	89.6	65.0-131	
cis-1,2-Dichloroethene	0.0250	0.0227	90.8	73.0-125	
trans-1,2-Dichloroethene	0.0250	0.0221	88.4	71.0-125	
1,2-Dichloropropane	0.0250	0.0220	88.0	74.0-125	
1,1-Dichloropropene	0.0250	0.0219	87.6	73.0-125	
1,3-Dichloropropane	0.0250	0.0228	91.2	80.0-125	
cis-1,3-Dichloropropene	0.0250	0.0228	91.2	76.0-127	
trans-1,3-Dichloropropene	0.0250	0.0216	86.4	73.0-127	
2,2-Dichloropropane	0.0250	0.0295	118	59.0-135	
Di-isopropyl ether	0.0250	0.0222	88.8	60.0-136	
Ethylbenzene	0.0250	0.0224	89.6	74.0-126	
Hexachloro-1,3-butadiene	0.0250	0.0227	90.8	57.0-150	

Laboratory Control Sample (LCS)

(LCS) R3711951-1 10/03/21 16:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Isopropylbenzene	0.0250	0.0228	91.2	72.0-127	
p-Isopropyltoluene	0.0250	0.0223	89.2	72.0-133	
2-Butanone (MEK)	0.125	0.0931	74.5	30.0-160	
Methylene Chloride	0.0250	0.0222	88.8	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.125	0.109	87.2	56.0-143	
Methyl tert-butyl ether	0.0250	0.0246	98.4	66.0-132	
Naphthalene	0.0250	0.0232	92.8	59.0-130	
n-Propylbenzene	0.0250	0.0217	86.8	74.0-126	
Styrene	0.0250	0.0231	92.4	72.0-127	
1,1,1,2-Tetrachloroethane	0.0250	0.0233	93.2	74.0-129	
1,1,2,2-Tetrachloroethane	0.0250	0.0206	82.4	68.0-128	
Tetrachloroethene	0.0250	0.0219	87.6	70.0-136	
Toluene	0.0250	0.0219	87.6	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.0250	0.0227	90.8	61.0-139	
1,2,3-Trichlorobenzene	0.0250	0.0250	100	59.0-139	
1,2,4-Trichlorobenzene	0.0250	0.0266	106	62.0-137	
1,1,1-Trichloroethane	0.0250	0.0230	92.0	69.0-126	
1,1,2-Trichloroethane	0.0250	0.0234	93.6	78.0-123	
Trichloroethene	0.0250	0.0225	90.0	76.0-126	
Trichlorofluoromethane	0.0250	0.0226	90.4	61.0-142	
1,2,3-Trichloropropane	0.0250	0.0216	86.4	67.0-129	
1,2,3-Trimethylbenzene	0.0250	0.0228	91.2	74.0-124	
1,2,4-Trimethylbenzene	0.0250	0.0219	87.6	70.0-126	
1,3,5-Trimethylbenzene	0.0250	0.0219	87.6	73.0-127	
tert-Amyl Methyl Ether	0.0250	0.0272	109	66.0-135	
Ethyl tert-butyl ether	0.0250	0.0264	106	68.0-140	
Vinyl chloride	0.0250	0.0247	98.8	63.0-134	
Xylenes, Total	0.0750	0.0675	90.0	72.0-127	
t-Amyl Alcohol	0.125	0.124	99.2	26.0-160	
ethanol	1.25	0.871	69.7	10.0-160	
tert-Butyl alcohol	0.125	0.0944	75.5	15.0-160	
(S) Toluene-d8			*114*	*75.0-131*	
(S) 4-Bromofluorobenzene			*106*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*116*	*70.0-130*	

Method Blank (MB)

(MB) R3711374-1 10/01/21 09:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C12-C22 Hydrocarbons	U		0.733	4.00
C22-C32 Hydrocarbons	U		1.33	4.00
C32-C40 Hydrocarbons	U		1.33	4.00
(S) o-Terphenyl	*81.1*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3711374-2 10/01/21 10:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C22-C32 Hydrocarbons	25.0	18.6	74.4	50.0-150	
C12-C22 Hydrocarbons	25.0	20.4	81.6	50.0-150	
(S) o-Terphenyl			*79.0*	*18.0-148*	

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

KLEINFELDER
Bright People. Right Solutions.

G153

PROJECT NO.	PROJECT NAME	NO. OF CONTAINERS	TYPE OF CONTAINERS	ANALYSIS	RECEIVING LAB:
	Costco Westgate W.			Metals CAM17; DRO/ORO -CA; GRO -CA; VOCs+OXY 8260	Pace, TN

L.P. NO. (PO. NO.):
SAMPLERS: (Signature/Number): Brandon Connelly

INSTRUCTIONS/REMARKS: 1408112

	DATE MM/DD/YY	SAMPLE I.D. TIME HH-MM-SS	SAMPLE I.D.	MATRIX	NO. OF CONTAINERS	TYPE OF CONTAINERS	Metals CAM17	DRO/ORO -CA	GRO -CA	VOCs+OXY 8260	INSTRUCTIONS/REMARKS
1	9-22-21	1250	KUP-1-2.5	SS	2						Hold 01
2	↓	1500	KUP-1-5	↓	6		X	X	X	X	02
3		1505	KUP-1-10		1						Hold 03
4		1510	KUP-1-15		1						04
5		1300	KUP-7-2.5		6		X	X	X	X	05
6		~~1325~~	KUP-7-5		1						time 1525 Hold 06
7		1530	KUP-7-10		1						↓ 07
8		1535	KUP-7-15		1						08
9		1245	KUP-2-2.5		6		X	X	X	X	09
10		~~1350~~	KUP-2-5		1						time 1407, Hold 10
11		1410	KUP-2-10		1						↓ 11
12		1415	KUP-2-15	↓	1						12
13	↓	0800	TB-02-210922WQ		1						↓
14											
15											
16											
17											
18											
19											
20											

KC 9-22-21

Sample Receipt Checklist
COC Seal Present/Intact: Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
RAD Screen <0.5 mR/hr: Y N
If Applicable
VOA Zero Headspace: Y N
Pres.Correct/Check: Y N

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	9-22-21 16:30	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)

Instructions/Remarks:
Track 511744306430
1.9-.1=1.8 A3
COCSI

Send Results To:
Kleinfelder - Laguna Hills
24411 Ridge Route Rd
Suite 255
Laguna Hills, CA
Attn: Paolo Orozco

ENV-02 REV 05/08)

White – Sampler   Canary – Return Copy To Shipper   Pink – Lab Copy

CHAIN OF CUSTODY 511744306430   COC № 10634

ANALYTICAL REPORT

September 27, 2021

Kleinfelder - Laguna Hills, CA

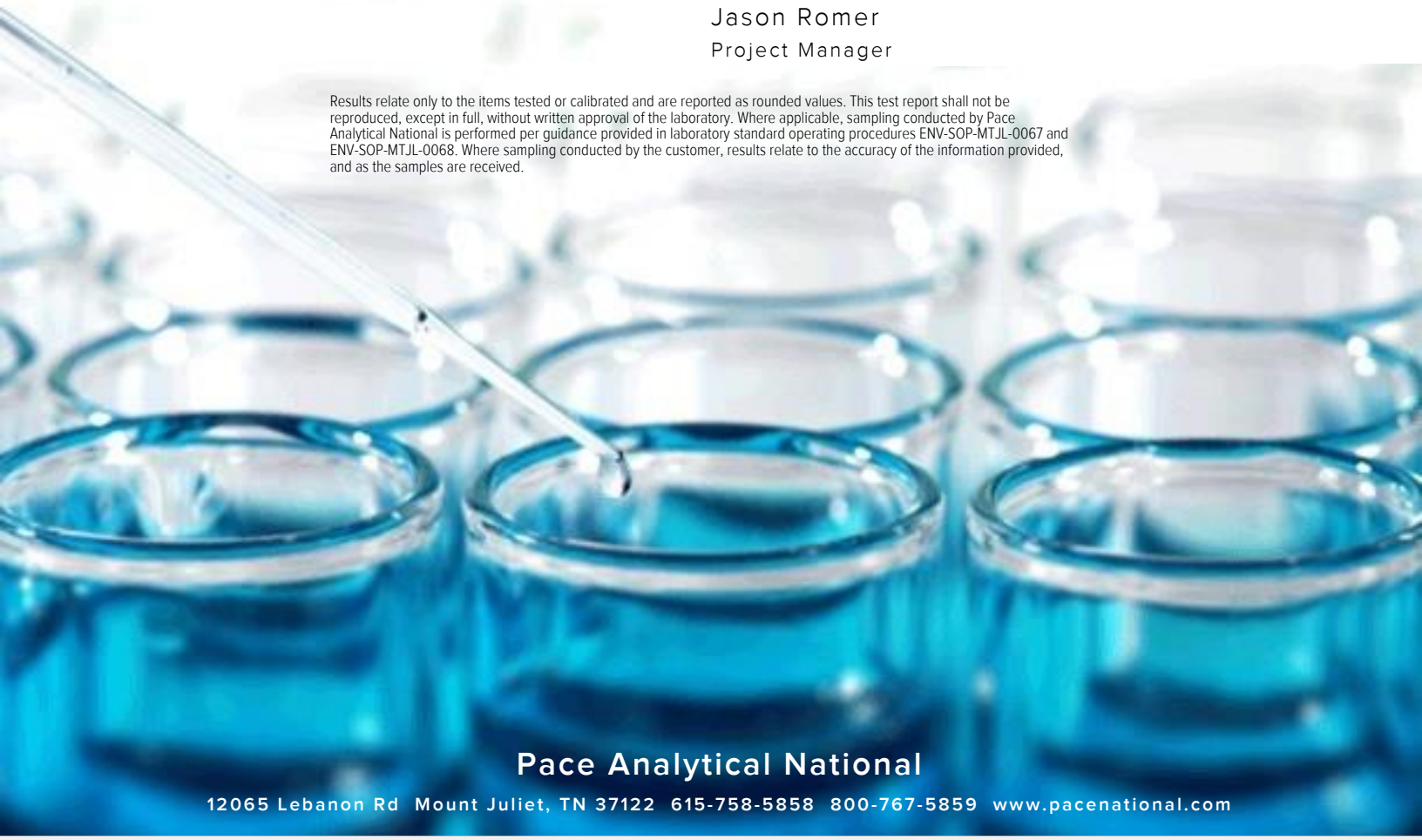
Sample Delivery Group:	L1408691
Samples Received:	09/24/2021
Project Number:	20221076.001A
Description:	Costco San Jose Westgate

Report To:

Brandon Connelly
24411 Ridge Route Dr
Suite 225
Laguna Hills, CA 92653

Entire Report Reviewed By:

Jason Romer
Project Manager



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KVP-12-5 L1408691-01 Air

Collected by: Jason Brown | Collected date/time: 09/23/21 08:35 | Received date/time: 09/24/21 15:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1746441	1	09/25/21 16:35	09/25/21 16:35	FKG	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1746994	1	09/27/21 09:32	09/27/21 09:32	DAH	Mt. Juliet, TN

KVP-12-15 L1408691-02 Air

Collected by: Jason Brown | Collected date/time: 09/23/21 08:52 | Received date/time: 09/24/21 15:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1746441	1	09/25/21 17:16	09/25/21 17:16	FKG	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1746738	5	09/26/21 14:28	09/26/21 14:28	CAW	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1746994	1	09/27/21 09:38	09/27/21 09:38	DAH	Mt. Juliet, TN

KVP-11-5 L1408691-03 Air

Collected by: Jason Brown | Collected date/time: 09/23/21 09:21 | Received date/time: 09/24/21 15:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1746441	1	09/25/21 17:57	09/25/21 17:57	FKG	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1746994	1	09/27/21 09:57	09/27/21 09:57	DAH	Mt. Juliet, TN

KVP-11-15 L1408691-04 Air

Collected by: Jason Brown | Collected date/time: 09/23/21 09:37 | Received date/time: 09/24/21 15:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1746441	1	09/25/21 18:38	09/25/21 18:38	FKG	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1746994	1	09/27/21 10:25	09/27/21 10:25	DAH	Mt. Juliet, TN

KVP-14-5 L1408691-05 Air

Collected by: Jason Brown | Collected date/time: 09/23/21 10:03 | Received date/time: 09/24/21 15:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1746441	1	09/25/21 19:19	09/25/21 19:19	FKG	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1746994	1	09/27/21 10:37	09/27/21 10:37	DAH	Mt. Juliet, TN

KVP-14-15 L1408691-06 Air

Collected by: Jason Brown | Collected date/time: 09/23/21 10:25 | Received date/time: 09/24/21 15:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1746441	1	09/25/21 20:00	09/25/21 20:00	FKG	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1746994	1	09/27/21 10:59	09/27/21 10:59	DAH	Mt. Juliet, TN

KVP-13-5 L1408691-07 Air

Collected by: Jason Brown | Collected date/time: 09/23/21 10:54 | Received date/time: 09/24/21 15:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1746441	1	09/25/21 20:42	09/25/21 20:42	FKG	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1746994	1	09/27/21 11:06	09/27/21 11:06	DAH	Mt. Juliet, TN

SAMPLE SUMMARY

KVP-13-15 L1408691-08 Air

Collected by: Jason Brown
Collected date/time: 09/23/21 11:45
Received date/time: 09/24/21 15:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1746441	1	09/25/21 21:24	09/25/21 21:24	FKG	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1746994	1	09/27/21 11:10	09/27/21 11:10	DAH	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Project Manager

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	2.49	5.92		1	WG1746441
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1746441
Benzene	71-43-2	78.10	0.200	0.639	0.562	1.80		1	WG1746441
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1746441
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1746441
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1746441
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1746441
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1746441
Carbon disulfide	75-15-0	76.10	0.200	0.622	2.08	6.47		1	WG1746441
Carbon tetrachloride	56-23-5	154	0.200	1.26	0.258	1.63		1	WG1746441
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1746441
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1746441
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1746441
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1746441
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1746441
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1746441
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1746441
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1746441
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1746441
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1746441
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1746441
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1746441
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1746441
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1746441
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1746441
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1746441
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1746441
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1746441
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1746441
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1746441
Ethanol	64-17-5	46.10	1.25	2.36	2.98	5.62		1	WG1746441
Ethylbenzene	100-41-4	106	0.200	0.867	2.51	10.9		1	WG1746441
4-Ethyltoluene	622-96-8	120	0.200	0.982	1.54	7.56		1	WG1746441
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.251	1.41		1	WG1746441
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.438	2.17		1	WG1746441
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1746441
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1746441
Heptane	142-82-5	100	0.200	0.818	0.579	2.37		1	WG1746441
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1746441
n-Hexane	110-54-3	86.20	0.630	2.22	1.80	6.35		1	WG1746441
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1746441
Methylene Chloride	75-09-2	84.90	0.200	0.694	1.29	4.48		1	WG1746441
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1746441
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1746441
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1746441
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1746441
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1746441
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1746441
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1746441
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1746441
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1746441
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1746441
Tetrachloroethylene	127-18-4	166	0.200	1.36	3.47	23.6		1	WG1746441
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1746441
Toluene	108-88-3	92.10	0.500	1.88	11.2	42.2		1	WG1746441
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1746441

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
			ppbv	ug/m3	ppbv	ug/m3			
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	94.4	514		1	WG1746441
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1746441
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1746441
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.32	6.48		1	WG1746441
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	1.02	5.01		1	WG1746441
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	0.485	2.27		1	WG1746441
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1746441
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1746441
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1746441
m&p-Xylene	1330-20-7	106	0.400	1.73	9.12	39.5		1	WG1746441
o-Xylene	95-47-6	106	0.200	0.867	3.27	14.2		1	WG1746441
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	3.41	9.21		1	WG1746441
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	213	880		1	WG1746441
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*95.8*				WG1746441

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
			%	%			
Helium	7440-59-7		0.100	ND		1	WG1746994

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	2.47	5.87		1	WG1746441
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1746441
Benzene	71-43-2	78.10	0.200	0.639	2.55	8.15		1	WG1746441
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1746441
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1746441
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1746441
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1746441
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1746441
Carbon disulfide	75-15-0	76.10	0.200	0.622	10.4	32.4		1	WG1746441
Carbon tetrachloride	56-23-5	154	0.200	1.26	0.602	3.79		1	WG1746441
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1746441
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1746441
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1746441
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1746441
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1746441
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1746441
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1746441
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1746441
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1746441
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1746441
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1746441
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1746441
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1746441
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	0.838	3.32		1	WG1746441
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1746441
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1746441
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1746441
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1746441
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1746441
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1746441
Ethanol	64-17-5	46.10	1.25	2.36	4.42	8.33		1	WG1746441
Ethylbenzene	100-41-4	106	0.200	0.867	2.48	10.8		1	WG1746441
4-Ethyltoluene	622-96-8	120	0.200	0.982	1.10	5.40		1	WG1746441
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.263	1.48		1	WG1746441
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.458	2.27		1	WG1746441
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1746441
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1746441
Heptane	142-82-5	100	0.200	0.818	1.22	4.99		1	WG1746441
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1746441
n-Hexane	110-54-3	86.20	0.630	2.22	3.01	10.6		1	WG1746441
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1746441
Methylene Chloride	75-09-2	84.90	0.200	0.694	2.70	9.38		1	WG1746441
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1746441
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1746441
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1746441
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1746441
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1746441
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1746441
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1746441
Propene	115-07-1	42.10	1.25	2.15	2.47	4.25		1	WG1746441
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1746441
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1746441
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.554	3.76		1	WG1746441
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1746441
Toluene	108-88-3	92.10	0.500	1.88	19.3	72.7		1	WG1746441
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1746441

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	1.00	5.44	159	865		5	WG1746738
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1746441
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1746441
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.874	4.29		1	WG1746441
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.711	3.49		1	WG1746441
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	4.36	20.4		1	WG1746441
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1746441
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1746441
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1746441
m&p-Xylene	1330-20-7	106	0.400	1.73	7.19	31.2		1	WG1746441
o-Xylene	95-47-6	106	0.200	0.867	2.56	11.1		1	WG1746441
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	1.09	2.94		1	WG1746441
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	428	1770		1	WG1746441
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*100*				WG1746441
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*93.6*				WG1746738

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	0.257		1	WG1746994

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	7.58	18.0		1	WG1746441
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1746441
Benzene	71-43-2	78.10	0.200	0.639	0.616	1.97		1	WG1746441
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1746441
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1746441
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1746441
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1746441
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1746441
Carbon disulfide	75-15-0	76.10	0.200	0.622	1.66	5.17		1	WG1746441
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1746441
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1746441
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1746441
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1746441
Chloromethane	74-87-3	50.50	0.200	0.413	0.219	0.452		1	WG1746441
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1746441
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1746441
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1746441
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1746441
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1746441
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1746441
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1746441
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1746441
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1746441
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1746441
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1746441
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1746441
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1746441
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1746441
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1746441
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1746441
Ethanol	64-17-5	46.10	1.25	2.36	22.0	41.5		1	WG1746441
Ethylbenzene	100-41-4	106	0.200	0.867	2.76	12.0		1	WG1746441
4-Ethyltoluene	622-96-8	120	0.200	0.982	1.39	6.82		1	WG1746441
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.254	1.43		1	WG1746441
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.364	1.80		1	WG1746441
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1746441
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1746441
Heptane	142-82-5	100	0.200	0.818	2.09	8.55		1	WG1746441
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1746441
n-Hexane	110-54-3	86.20	0.630	2.22	1.04	3.67		1	WG1746441
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1746441
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.385	1.34		1	WG1746441
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1746441
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1746441
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1746441
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1746441
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1746441
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1746441
2-Propanol	67-63-0	60.10	1.25	3.07	4.70	11.6		1	WG1746441
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1746441
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1746441
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1746441
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.574	3.90		1	WG1746441
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1746441
Toluene	108-88-3	92.10	0.500	1.88	26.0	97.9		1	WG1746441
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1746441

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
			ppbv	ug/m3	ppbv	ug/m3			
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	66.3	361		1	WG1746441
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1746441
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1746441
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.16	5.69		1	WG1746441
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.873	4.28		1	WG1746441
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	0.612	2.86		1	WG1746441
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1746441
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1746441
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1746441
m&p-Xylene	1330-20-7	106	0.400	1.73	9.71	42.1		1	WG1746441
o-Xylene	95-47-6	106	0.200	0.867	3.44	14.9		1	WG1746441
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	3.30	8.91		1	WG1746441
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	237	979		1	WG1746441
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*95.5*				WG1746441

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
			%	%			
Helium	7440-59-7		0.100	0.118		1	WG1746994

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	2.46	5.85		1	WG1746441
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1746441
Benzene	71-43-2	78.10	0.200	0.639	0.291	0.930		1	WG1746441
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1746441
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1746441
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1746441
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1746441
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1746441
Carbon disulfide	75-15-0	76.10	0.200	0.622	0.604	1.88		1	WG1746441
Carbon tetrachloride	56-23-5	154	0.200	1.26	0.301	1.90		1	WG1746441
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1746441
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1746441
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1746441
Chloromethane	74-87-3	50.50	0.200	0.413	0.305	0.630		1	WG1746441
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1746441
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1746441
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1746441
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1746441
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1746441
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1746441
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1746441
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1746441
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1746441
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1746441
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1746441
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1746441
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1746441
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1746441
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1746441
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1746441
Ethanol	64-17-5	46.10	1.25	2.36	5.55	10.5		1	WG1746441
Ethylbenzene	100-41-4	106	0.200	0.867	0.589	2.55		1	WG1746441
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.320	1.57		1	WG1746441
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.247	1.39		1	WG1746441
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.387	1.91		1	WG1746441
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1746441
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1746441
Heptane	142-82-5	100	0.200	0.818	0.271	1.11		1	WG1746441
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1746441
n-Hexane	110-54-3	86.20	0.630	2.22	0.968	3.41		1	WG1746441
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1746441
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.696	2.42		1	WG1746441
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1746441
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1746441
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1746441
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1746441
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1746441
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1746441
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1746441
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1746441
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1746441
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1746441
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1746441
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1746441
Toluene	108-88-3	92.10	0.500	1.88	4.94	18.6		1	WG1746441
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1746441

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	64.9	353		1	WG1746441
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1746441
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1746441
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.286	1.40		1	WG1746441
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1746441
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1746441
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1746441
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1746441
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1746441
m&p-Xylene	1330-20-7	106	0.400	1.73	1.87	8.11		1	WG1746441
o-Xylene	95-47-6	106	0.200	0.867	0.670	2.90		1	WG1746441
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	7.03	19.0		1	WG1746441
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG1746441
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*96.3*				WG1746441

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	ND		1	WG1746994

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	2.22	5.28		1	WG1746441
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1746441
Benzene	71-43-2	78.10	0.200	0.639	0.739	2.36		1	WG1746441
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1746441
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1746441
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1746441
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1746441
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1746441
Carbon disulfide	75-15-0	76.10	0.200	0.622	2.22	6.91		1	WG1746441
Carbon tetrachloride	56-23-5	154	0.200	1.26	0.473	2.98		1	WG1746441
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1746441
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1746441
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1746441
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1746441
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1746441
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1746441
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1746441
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1746441
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1746441
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1746441
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1746441
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1746441
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1746441
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1746441
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1746441
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1746441
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1746441
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1746441
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1746441
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1746441
Ethanol	64-17-5	46.10	1.25	2.36	3.05	5.75		1	WG1746441
Ethylbenzene	100-41-4	106	0.200	0.867	2.71	11.7		1	WG1746441
4-Ethyltoluene	622-96-8	120	0.200	0.982	1.55	7.61		1	WG1746441
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.307	1.73		1	WG1746441
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.632	3.13		1	WG1746441
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1746441
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1746441
Heptane	142-82-5	100	0.200	0.818	0.529	2.16		1	WG1746441
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1746441
n-Hexane	110-54-3	86.20	0.630	2.22	1.03	3.63		1	WG1746441
Isopropylbenzene	98-82-8	120.20	0.200	0.983	0.213	1.05		1	WG1746441
Methylene Chloride	75-09-2	84.90	0.200	0.694	1.14	3.96		1	WG1746441
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1746441
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1746441
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1746441
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1746441
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1746441
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1746441
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1746441
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1746441
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1746441
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1746441
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1746441
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1746441
Toluene	108-88-3	92.10	0.500	1.88	13.5	50.9		1	WG1746441
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1746441

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	11.2	60.9		1	WG1746441
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1746441
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1746441
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.60	7.85		1	WG1746441
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	1.12	5.50		1	WG1746441
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	0.664	3.10		1	WG1746441
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1746441
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1746441
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1746441
m&p-Xylene	1330-20-7	106	0.400	1.73	9.64	41.8		1	WG1746441
o-Xylene	95-47-6	106	0.200	0.867	4.09	17.7		1	WG1746441
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	3.46	9.35		1	WG1746441
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG1746441
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*96.2*				WG1746441

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	ND		1	WG1746994

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	1.45	3.45		1	WG1746441
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1746441
Benzene	71-43-2	78.10	0.200	0.639	0.252	0.805		1	WG1746441
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1746441
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1746441
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1746441
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1746441
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1746441
Carbon disulfide	75-15-0	76.10	0.200	0.622	2.52	7.84		1	WG1746441
Carbon tetrachloride	56-23-5	154	0.200	1.26	2.01	12.7		1	WG1746441
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1746441
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1746441
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1746441
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1746441
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1746441
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1746441
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1746441
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1746441
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1746441
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1746441
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1746441
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1746441
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1746441
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1746441
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1746441
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1746441
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1746441
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1746441
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1746441
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1746441
Ethanol	64-17-5	46.10	1.25	2.36	1.74	3.28		1	WG1746441
Ethylbenzene	100-41-4	106	0.200	0.867	0.385	1.67		1	WG1746441
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.245	1.20		1	WG1746441
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.278	1.56		1	WG1746441
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.785	3.88		1	WG1746441
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1746441
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1746441
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1746441
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1746441
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1746441
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1746441
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.840	2.92		1	WG1746441
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1746441
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1746441
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1746441
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1746441
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1746441
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1746441
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1746441
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1746441
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1746441
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1746441
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1746441
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	0.305	0.899		1	WG1746441
Toluene	108-88-3	92.10	0.500	1.88	2.49	9.38		1	WG1746441
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1746441

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	22.6	123		1	WG1746441
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1746441
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1746441
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.227	1.11		1	WG1746441
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1746441
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1746441
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1746441
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1746441
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1746441
m&p-Xylene	1330-20-7	106	0.400	1.73	1.24	5.38		1	WG1746441
o-Xylene	95-47-6	106	0.200	0.867	0.556	2.41		1	WG1746441
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	ND	ND		1	WG1746441
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG1746441
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*95.6*				WG1746441

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	ND		1	WG1746994

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	2.75	6.53		1	WG1746441
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1746441
Benzene	71-43-2	78.10	0.200	0.639	0.453	1.45		1	WG1746441
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1746441
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1746441
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1746441
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1746441
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1746441
Carbon disulfide	75-15-0	76.10	0.200	0.622	2.47	7.69		1	WG1746441
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1746441
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1746441
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1746441
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1746441
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1746441
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1746441
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1746441
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1746441
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1746441
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1746441
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1746441
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1746441
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1746441
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1746441
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1746441
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1746441
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1746441
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1746441
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1746441
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1746441
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1746441
Ethanol	64-17-5	46.10	1.25	2.36	4.49	8.47		1	WG1746441
Ethylbenzene	100-41-4	106	0.200	0.867	2.26	9.80		1	WG1746441
4-Ethyltoluene	622-96-8	120	0.200	0.982	1.47	7.21		1	WG1746441
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.246	1.38		1	WG1746441
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.351	1.74		1	WG1746441
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1746441
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1746441
Heptane	142-82-5	100	0.200	0.818	0.310	1.27		1	WG1746441
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1746441
n-Hexane	110-54-3	86.20	0.630	2.22	0.936	3.30		1	WG1746441
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1746441
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.886	3.08		1	WG1746441
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1746441
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1746441
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1746441
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1746441
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1746441
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1746441
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1746441
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1746441
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1746441
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1746441
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1746441
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1746441
Toluene	108-88-3	92.10	0.500	1.88	8.82	33.2		1	WG1746441
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1746441

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	29.8	162		1	WG1746441
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1746441
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1746441
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.56	7.66		1	WG1746441
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.952	4.67		1	WG1746441
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	0.290	1.35		1	WG1746441
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1746441
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1746441
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1746441
m&p-Xylene	1330-20-7	106	0.400	1.73	8.67	37.6		1	WG1746441
o-Xylene	95-47-6	106	0.200	0.867	3.77	16.3		1	WG1746441
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	6.76	18.3		1	WG1746441
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	239	987		1	WG1746441
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*95.6*				WG1746441

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	ND		1	WG1746994

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	4.74	11.3		1	WG1746441
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1746441
Benzene	71-43-2	78.10	0.200	0.639	0.548	1.75		1	WG1746441
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1746441
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1746441
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1746441
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1746441
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1746441
Carbon disulfide	75-15-0	76.10	0.200	0.622	2.26	7.03		1	WG1746441
Carbon tetrachloride	56-23-5	154	0.200	1.26	0.200	1.26		1	WG1746441
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1746441
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1746441
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1746441
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1746441
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1746441
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1746441
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1746441
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1746441
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1746441
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1746441
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1746441
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1746441
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1746441
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1746441
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1746441
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1746441
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1746441
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1746441
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1746441
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1746441
Ethanol	64-17-5	46.10	1.25	2.36	6.13	11.6		1	WG1746441
Ethylbenzene	100-41-4	106	0.200	0.867	1.10	4.77		1	WG1746441
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.663	3.25		1	WG1746441
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.244	1.37		1	WG1746441
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.363	1.80		1	WG1746441
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1746441
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1746441
Heptane	142-82-5	100	0.200	0.818	0.672	2.75		1	WG1746441
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1746441
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1746441
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1746441
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.285	0.990		1	WG1746441
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1746441
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1746441
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1746441
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1746441
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1746441
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1746441
2-Propanol	67-63-0	60.10	1.25	3.07	1.87	4.60		1	WG1746441
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1746441
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1746441
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1746441
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1746441
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1746441
Toluene	108-88-3	92.10	0.500	1.88	15.5	58.4		1	WG1746441
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1746441

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
			ppbv	ug/m3	ppbv	ug/m3			
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	41.1	224		1	WG1746441
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1746441
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1746441
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.686	3.37		1	WG1746441
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.355	1.74		1	WG1746441
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	0.256	1.20		1	WG1746441
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1746441
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1746441
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1746441
m&p-Xylene	1330-20-7	106	0.400	1.73	3.66	15.9		1	WG1746441
o-Xylene	95-47-6	106	0.200	0.867	1.38	5.98		1	WG1746441
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	3.30	8.91		1	WG1746441
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	266	1100		1	WG1746441
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*98.3*				WG1746441

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
			%	%			
Helium	7440-59-7		0.100	0.121		1	WG1746994

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3708800-3 09/25/21 07:41

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630
Isopropylbenzene	U		0.0777	0.200

Method Blank (MB)

(MB) R3708800-3 09/25/21 07:41

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.187	J	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
Ethanol	U		0.265	1.25
TPH (GC/MS) Low Fraction	U		39.7	200
1,1-Difluoroethane	U		0.129	1.00
(S) 1,4-Bromofluorobenzene	*95.6*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3708800-1 09/25/21 06:20 • (LCSD) R3708800-2 09/25/21 07:01

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethanol	3.75	3.53	3.64	94.1	97.1	55.0-148			3.07	25
Propene	3.75	4.02	4.01	107	107	64.0-144			0.249	25
Dichlorodifluoromethane	3.75	3.64	3.68	97.1	98.1	64.0-139			1.09	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3708800-1 09/25/21 06:20 • (LCSD) R3708800-2 09/25/21 07:01

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,2-Dichlorotetrafluoroethane	3.75	3.90	3.91	104	104	70.0-130			0.256	25
Chloromethane	3.75	3.73	3.84	99.5	102	70.0-130			2.91	25
Vinyl chloride	3.75	3.90	3.92	104	105	70.0-130			0.512	25
1,3-Butadiene	3.75	3.98	3.88	106	103	70.0-130			2.54	25
Bromomethane	3.75	3.64	3.80	97.1	101	70.0-130			4.30	25
Chloroethane	3.75	3.79	3.86	101	103	70.0-130			1.83	25
Trichlorofluoromethane	3.75	3.74	3.75	99.7	100	70.0-130			0.267	25
1,1,2-Trichlorotrifluoroethane	3.75	3.81	3.76	102	100	70.0-130			1.32	25
1,1-Dichloroethene	3.75	3.78	3.83	101	102	70.0-130			1.31	25
1,1-Dichloroethane	3.75	3.87	3.90	103	104	70.0-130			0.772	25
Acetone	3.75	4.04	4.06	108	108	70.0-130			0.494	25
2-Propanol	3.75	3.90	3.78	104	101	70.0-139			3.13	25
Carbon disulfide	3.75	3.78	3.81	101	102	70.0-130			0.791	25
Methylene Chloride	3.75	3.93	3.84	105	102	70.0-130			2.32	25
MTBE	3.75	3.62	3.72	96.5	99.2	70.0-130			2.72	25
trans-1,2-Dichloroethene	3.75	3.93	3.95	105	105	70.0-130			0.508	25
n-Hexane	3.75	3.94	3.90	105	104	70.0-130			1.02	25
Vinyl acetate	3.75	3.80	3.60	101	96.0	70.0-130			5.41	25
Methyl Ethyl Ketone	3.75	3.83	3.74	102	99.7	70.0-130			2.38	25
cis-1,2-Dichloroethene	3.75	3.84	3.86	102	103	70.0-130			0.519	25
Chloroform	3.75	3.72	3.78	99.2	101	70.0-130			1.60	25
Cyclohexane	3.75	3.81	3.85	102	103	70.0-130			1.04	25
1,1,1-Trichloroethane	3.75	3.83	3.77	102	101	70.0-130			1.58	25
Carbon tetrachloride	3.75	3.65	3.70	97.3	98.7	70.0-130			1.36	25
Benzene	3.75	3.78	3.81	101	102	70.0-130			0.791	25
1,2-Dichloroethane	3.75	3.78	3.78	101	101	70.0-130			0.000	25
Heptane	3.75	3.54	3.71	94.4	98.9	70.0-130			4.69	25
Trichloroethylene	3.75	3.88	3.80	103	101	70.0-130			2.08	25
1,2-Dichloropropane	3.75	3.89	3.92	104	105	70.0-130			0.768	25
1,4-Dioxane	3.75	3.58	3.76	95.5	100	70.0-140			4.90	25
Bromodichloromethane	3.75	3.74	3.80	99.7	101	70.0-130			1.59	25
cis-1,3-Dichloropropene	3.75	3.85	3.80	103	101	70.0-130			1.31	25
4-Methyl-2-pentanone (MIBK)	3.75	3.99	4.06	106	108	70.0-139			1.74	25
Toluene	3.75	3.80	3.80	101	101	70.0-130			0.000	25
trans-1,3-Dichloropropene	3.75	3.92	3.89	105	104	70.0-130			0.768	25
1,1,2-Trichloroethane	3.75	3.87	3.91	103	104	70.0-130			1.03	25
Tetrachloroethylene	3.75	3.74	3.63	99.7	96.8	70.0-130			2.99	25
Methyl Butyl Ketone	3.75	3.95	3.92	105	105	70.0-149			0.762	25
Dibromochloromethane	3.75	3.71	3.73	98.9	99.5	70.0-130			0.538	25
1,2-Dibromoethane	3.75	3.84	3.75	102	100	70.0-130			2.37	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3708800-1 09/25/21 06:20 • (LCSD) R3708800-2 09/25/21 07:01

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chlorobenzene	3.75	3.86	3.79	103	101	70.0-130			1.83	25
Ethylbenzene	3.75	3.76	3.75	100	100	70.0-130			0.266	25
m&p-Xylene	7.50	7.59	7.55	101	101	70.0-130			0.528	25
o-Xylene	3.75	3.76	3.71	100	98.9	70.0-130			1.34	25
Styrene	3.75	3.74	3.77	99.7	101	70.0-130			0.799	25
Bromoform	3.75	3.70	3.63	98.7	96.8	70.0-130			1.91	25
1,1,2,2-Tetrachloroethane	3.75	3.76	3.73	100	99.5	70.0-130			0.801	25
4-Ethyltoluene	3.75	3.64	3.69	97.1	98.4	70.0-130			1.36	25
1,3,5-Trimethylbenzene	3.75	3.90	3.67	104	97.9	70.0-130			6.08	25
1,2,4-Trimethylbenzene	3.75	3.73	3.67	99.5	97.9	70.0-130			1.62	25
1,3-Dichlorobenzene	3.75	3.65	3.67	97.3	97.9	70.0-130			0.546	25
1,4-Dichlorobenzene	3.75	3.60	3.65	96.0	97.3	70.0-130			1.38	25
Benzyl Chloride	3.75	3.67	3.64	97.9	97.1	70.0-152			0.821	25
1,2-Dichlorobenzene	3.75	3.60	3.57	96.0	95.2	70.0-130			0.837	25
1,2,4-Trichlorobenzene	3.75	3.93	3.85	105	103	70.0-160			2.06	25
Hexachloro-1,3-butadiene	3.75	3.89	3.90	104	104	70.0-151			0.257	25
Naphthalene	3.75	3.87	3.93	103	105	70.0-159			1.54	25
TPH (GC/MS) Low Fraction	203	220	217	108	107	70.0-130			1.37	25
Allyl Chloride	3.75	3.88	3.74	103	99.7	70.0-130			3.67	25
2-Chlorotoluene	3.75	3.70	3.70	98.7	98.7	70.0-130			0.000	25
Methyl Methacrylate	3.75	3.89	3.86	104	103	70.0-130			0.774	25
Tetrahydrofuran	3.75	3.96	4.00	106	107	70.0-137			1.01	25
2,2,4-Trimethylpentane	3.75	3.83	3.85	102	103	70.0-130			0.521	25
Vinyl Bromide	3.75	3.66	3.78	97.6	101	70.0-130			3.23	25
Isopropylbenzene	3.75	3.68	3.63	98.1	96.8	70.0-130			1.37	25
1,1-Difluoroethane	3.75	3.76	3.78	100	101	70.0-130			0.531	25
(S) 1,4-Bromofluorobenzene				*96.4*	*97.9*	*60.0-140*				

Method Blank (MB)

(MB) R3708956-3 09/26/21 10:01

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
1,1,1-Trichloroethane	U		0.0736	0.200
(S) 1,4-Bromofluorobenzene	*94.5*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3708956-1 09/26/21 09:02 • (LCSD) R3708956-2 09/26/21 09:32

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,1-Trichloroethane	3.75	4.12	4.20	110	112	70.0-130			1.92	25
(S) 1,4-Bromofluorobenzene				*99.5*	*98.3*	*60.0-140*				

Method Blank (MB)

(MB) R3709069-3 09/27/21 09:21

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Helium	U		0.0259	0.100

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3709069-1 09/27/21 09:04 • (LCSD) R3709069-2 09/27/21 09:08

Analyte	Spike Amount %	LCS Result %	LCSD Result %	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Helium	2.50	2.40	2.47	96.0	98.8	70.0-130			2.87	25

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Kleinfelder - Laguna Hills, CA

24411 Ridge Route Dr
Suite 225
Laguna Hills. CA 92653

Billing Information:
Project Manager- Paolo Dizon
24411 Ridge Route Dr
Suite 225
Laguna Hills, CA 92653

Pres Chk

Report to:
Project Manager - Paolo Dizon

Email To: @kleinfelder.com
vgolston; Ldandridge, pdizon

Project Description:
Costco San Jose Westgate

City/State Collected: San Jose, CA

Please Circle: (PT) MT CT ET

Phone: 949-727-4466

Client Project #
20221076.001A

Lab Project #
KLEINICA-SANJOSE

Collected by (print):
Jason Brown.

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N X Y ___ NA

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
X Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Helium Summa	VOCs TO-15 Summa	Remarks	Sample # (lab only)
KVP-12-5	G	Air	5	09/23/21	835	1	X	X		-01
KVP-12-15	G	Air	15		852	1	X	X		-02
KVP-11-5	G	Air	5		921	1	X	X		-03
KVP-11-15	G	Air	15		937	1	X	X		-04
KVP14-5	G	Air	5		1003	1	X	X		-05
KVP-14-15	G	Air	15		1025	1	X	X		-06
KVP-13-5	G	Air	5		1054	1	X	X		-07
KVP-13-15	G	Air	15		~~1116~~ 1145	1	X	X		-08
		Air								
		Air								

Chain of Custody Page 1 of 1

Pace Analytical®

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1408691

Table G185

Acctnum: KLEINICA

Template: T194930

Prelogin: P872695

PM: 110 - Brian Ford

PB: CSL-09/13/21

Shipped Via: FedEX Saver

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 936249583458

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

	Date:	Time:		
Relinquished by : (Signature)			Received by: (Signature) FedEx.	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)			Received by: (Signature)	Temp: °C Bottles Received: 8
Relinquished by : (Signature)			Received for lab by: (Signature) B. Barros	Date: 9-24-21 Time: 1540

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

ANALYTICAL REPORT

October 07, 2021

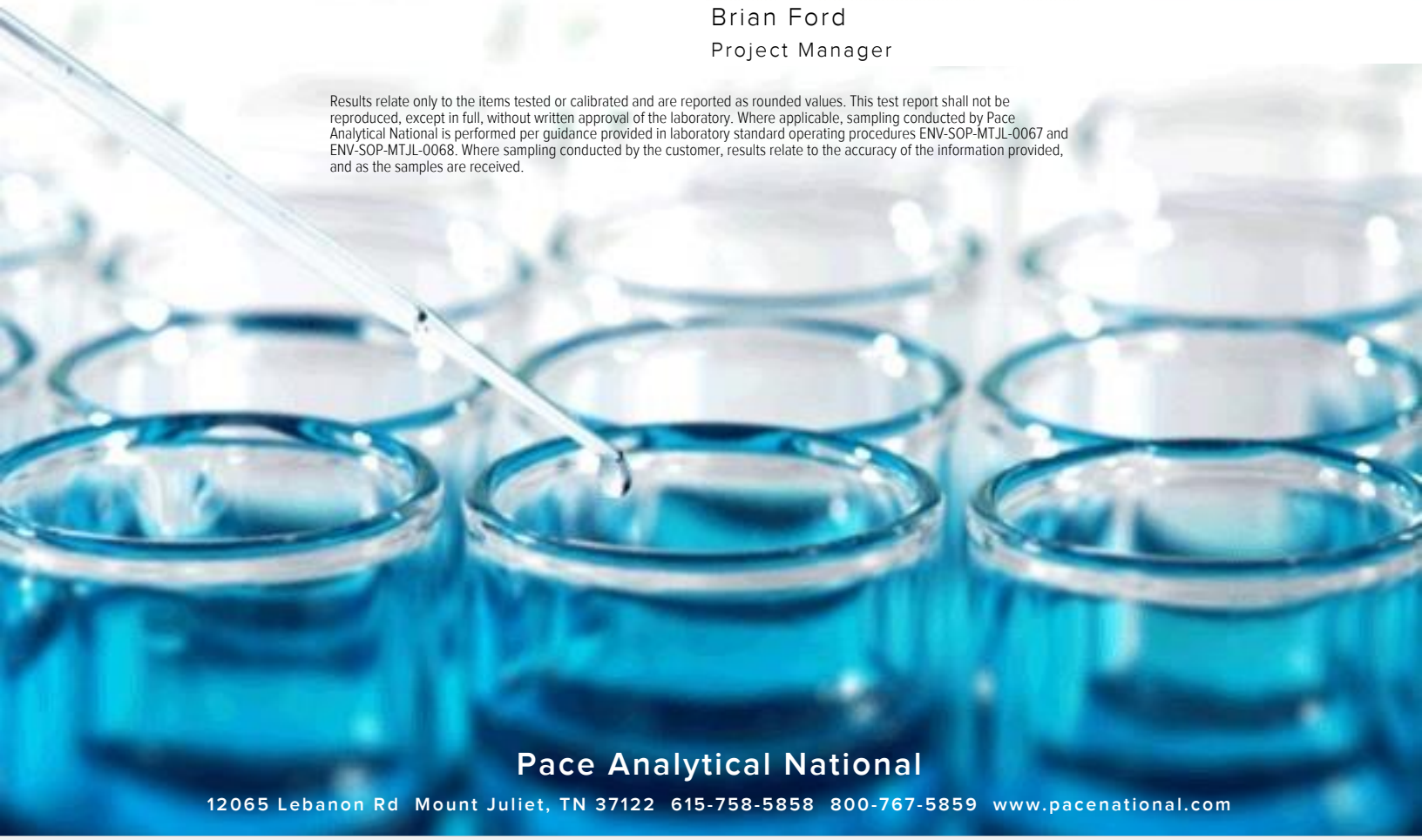
Kleinfelder - Laguna Hills, CA

Sample Delivery Group:	L1412848
Samples Received:	10/02/2021
Project Number:	20221076.001A
Description:	

Report To: Brandon Connelly
24411 Ridge Route Dr
Suite 225
Laguna Hills, CA 92653

Entire Report Reviewed By:

Brian Ford
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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KVP-10-5 L1412848-01 Air

Collected by: T. Dooley | Collected date/time: 10/01/21 07:07 | Received date/time: 10/02/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1751088	1	10/04/21 17:39	10/04/21 17:39	FKG	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1752353	1	10/06/21 14:07	10/06/21 14:07	DBB	Mt. Juliet, TN

KVP-10-15 L1412848-02 Air

Collected by: T. Dooley | Collected date/time: 10/01/21 07:37 | Received date/time: 10/02/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1751088	1	10/04/21 18:09	10/04/21 18:09	FKG	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1752353	1	10/06/21 14:11	10/06/21 14:11	DBB	Mt. Juliet, TN

KVP-1-5 L1412848-03 Air

Collected by: T. Dooley | Collected date/time: 10/01/21 08:22 | Received date/time: 10/02/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1751088	1	10/04/21 18:39	10/04/21 18:39	FKG	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1751573	5	10/05/21 15:25	10/05/21 15:25	CAW	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1752235	1	10/06/21 11:08	10/06/21 11:08	DBB	Mt. Juliet, TN

KVP-1-15 L1412848-04 Air

Collected by: T. Dooley | Collected date/time: 10/01/21 08:49 | Received date/time: 10/02/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1751088	1	10/04/21 19:09	10/04/21 19:09	FKG	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1751573	20	10/05/21 16:06	10/05/21 16:06	CAW	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1752353	1	10/06/21 14:24	10/06/21 14:24	DBB	Mt. Juliet, TN

KVP-2-5 L1412848-05 Air

Collected by: T. Dooley | Collected date/time: 10/01/21 09:10 | Received date/time: 10/02/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1751088	1	10/04/21 19:38	10/04/21 19:38	FKG	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1751573	10	10/05/21 16:47	10/05/21 16:47	CAW	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1752353	1	10/06/21 14:27	10/06/21 14:27	DBB	Mt. Juliet, TN

KVP-2-15 L1412848-06 Air

Collected by: T. Dooley | Collected date/time: 10/01/21 09:31 | Received date/time: 10/02/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1751088	1	10/04/21 20:08	10/04/21 20:08	FKG	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1751573	10	10/05/21 17:28	10/05/21 17:28	CAW	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1752353	1	10/06/21 14:33	10/06/21 14:33	DBB	Mt. Juliet, TN

KVP-3-5 L1412848-07 Air

Collected by: T. Dooley | Collected date/time: 10/01/21 09:59 | Received date/time: 10/02/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1751088	1	10/04/21 20:38	10/04/21 20:38	FKG	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1751573	5	10/05/21 18:09	10/05/21 18:09	CAW	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1752353	1	10/06/21 14:42	10/06/21 14:42	DBB	Mt. Juliet, TN

KVP-3-15 L1412848-08 Air

Collected by: T. Dooley | Collected date/time: 10/01/21 10:18 | Received date/time: 10/02/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1751088	1	10/04/21 21:07	10/04/21 21:07	FKG	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1751573	10	10/05/21 18:50	10/05/21 18:50	CAW	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1752353	1	10/06/21 14:46	10/06/21 14:46	DBB	Mt. Juliet, TN

KVP-4-5 L1412848-09 Air

Collected by: T. Dooley | Collected date/time: 10/01/21 10:42 | Received date/time: 10/02/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1751088	1	10/04/21 21:36	10/04/21 21:36	FKG	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1751573	10	10/05/21 19:31	10/05/21 19:31	CAW	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1752353	1	10/06/21 14:51	10/06/21 14:51	DBB	Mt. Juliet, TN

KVP-4-15 L1412848-10 Air

Collected by: T. Dooley | Collected date/time: 10/01/21 11:11 | Received date/time: 10/02/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1751088	1	10/04/21 22:06	10/04/21 22:06	FKG	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1751573	10	10/05/21 20:11	10/05/21 20:11	CAW	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1752353	1	10/06/21 14:57	10/06/21 14:57	DBB	Mt. Juliet, TN

KVP-5-5 L1412848-11 Air

Collected by: T. Dooley | Collected date/time: 10/01/21 11:34 | Received date/time: 10/02/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1751173	1	10/04/21 15:20	10/04/21 15:20	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1751638	10	10/05/21 19:09	10/05/21 19:09	CEP	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1752353	1	10/06/21 15:01	10/06/21 15:01	DBB	Mt. Juliet, TN

KVP-5-15 L1412848-12 Air

Collected by: T. Dooley | Collected date/time: 10/01/21 11:57 | Received date/time: 10/02/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1751173	1	10/04/21 15:49	10/04/21 15:49	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1751638	10	10/05/21 19:49	10/05/21 19:49	CEP	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1752353	1	10/06/21 15:06	10/06/21 15:06	DBB	Mt. Juliet, TN

KVP-6-5 L1412848-13 Air

Collected by: T. Dooley | Collected date/time: 10/01/21 12:23 | Received date/time: 10/02/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1751173	1	10/04/21 16:17	10/04/21 16:17	DAH	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1752353	1	10/06/21 15:10	10/06/21 15:10	DBB	Mt. Juliet, TN

KVP-6-15 L1412848-14 Air

Collected by: T. Dooley | Collected date/time: 10/01/21 12:47 | Received date/time: 10/02/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1751173	1	10/04/21 16:46	10/04/21 16:46	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1751638	10	10/05/21 20:30	10/05/21 20:30	CEP	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1752353	1	10/06/21 15:12	10/06/21 15:12	DBB	Mt. Juliet, TN

KVP-7-5 L1412848-15 Air

Collected by: T. Dooley | Collected date/time: 10/01/21 13:14 | Received date/time: 10/02/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1751173	1	10/04/21 17:15	10/04/21 17:15	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1752500	20	10/06/21 14:34	10/06/21 14:34	CEP	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1752353	1	10/06/21 15:17	10/06/21 15:17	DBB	Mt. Juliet, TN

KVP-7-15 L1412848-16 Air

Collected by: T. Dooley | Collected date/time: 10/01/21 13:42 | Received date/time: 10/02/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1751173	1	10/04/21 17:44	10/04/21 17:44	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1751638	10	10/05/21 21:54	10/05/21 21:54	CEP	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1752353	1	10/06/21 15:20	10/06/21 15:20	DBB	Mt. Juliet, TN

KVP-8-5 L1412848-17 Air

Collected by: T. Dooley | Collected date/time: 10/01/21 14:10 | Received date/time: 10/02/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1751173	1	10/04/21 18:13	10/04/21 18:13	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1751638	10	10/05/21 22:34	10/05/21 22:34	CEP	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1752353	1	10/06/21 15:26	10/06/21 15:26	DBB	Mt. Juliet, TN

KVP-9-5 L1412848-18 Air

Collected by: T. Dooley | Collected date/time: 10/01/21 14:32 | Received date/time: 10/02/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1751173	1	10/04/21 18:42	10/04/21 18:42	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1751638	10	10/05/21 23:14	10/05/21 23:14	CEP	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1752353	1	10/06/21 15:30	10/06/21 15:30	DBB	Mt. Juliet, TN

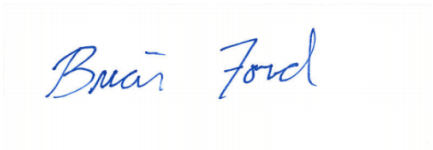
KVP-9-15 L1412848-19 Air

Collected by: T. Dooley | Collected date/time: 10/01/21 14:52 | Received date/time: 10/02/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1751173	1	10/04/21 19:11	10/04/21 19:11	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1751638	10	10/05/21 23:54	10/05/21 23:54	CEP	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1752353	1	10/06/21 15:33	10/06/21 15:33	DBB	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brian Ford
Project Manager

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	2.70	6.42		1	WG1751088
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1751088
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1751088
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1751088
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1751088
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1751088
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1751088
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1751088
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1751088
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1751088
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1751088
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1751088
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1751088
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1751088
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1751088
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1751088
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1751088
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1751088
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1751088
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1751088
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1751088
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1751088
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1751088
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1751088
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1751088
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1751088
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1751088
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1751088
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1751088
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1751088
Ethanol	64-17-5	46.10	1.25	2.36	2.70	5.09		1	WG1751088
Ethylbenzene	100-41-4	106	0.200	0.867	0.294	1.27		1	WG1751088
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1751088
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.209	1.17		1	WG1751088
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.440	2.18		1	WG1751088
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1751088
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1751088
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1751088
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1751088
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1751088
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1751088
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.219	0.760		1	WG1751088
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1751088
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1751088
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1751088
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1751088
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1751088
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1751088
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1751088
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1751088
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1751088
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1751088
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.359	2.44		1	WG1751088
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1751088
Toluene	108-88-3	92.10	0.500	1.88	1.12	4.22		1	WG1751088
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1751088

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	8.34	45.4		1	WG1751088
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1751088
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1751088
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.504	2.47		1	WG1751088
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.285	1.40		1	WG1751088
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1751088
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1751088
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1751088
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1751088
m&p-Xylene	1330-20-7	106	0.400	1.73	1.04	4.51		1	WG1751088
o-Xylene	95-47-6	106	0.200	0.867	0.643	2.79		1	WG1751088
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	ND	ND		1	WG1751088
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG1751088
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*103*				WG1751088

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	ND		1	WG1752353

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	3.69	8.77		1	WG1751088
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1751088
Benzene	71-43-2	78.10	0.200	0.639	0.267	0.853		1	WG1751088
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1751088
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1751088
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1751088
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1751088
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1751088
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1751088
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1751088
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1751088
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1751088
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1751088
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1751088
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1751088
Cyclohexane	110-82-7	84.20	0.200	0.689	0.355	1.22		1	WG1751088
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1751088
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1751088
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1751088
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1751088
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1751088
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1751088
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1751088
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1751088
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1751088
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1751088
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1751088
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1751088
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1751088
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1751088
Ethanol	64-17-5	46.10	1.25	2.36	6.64	12.5		1	WG1751088
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG1751088
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1751088
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.230	1.29		1	WG1751088
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.437	2.16		1	WG1751088
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1751088
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1751088
Heptane	142-82-5	100	0.200	0.818	0.311	1.27		1	WG1751088
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1751088
n-Hexane	110-54-3	86.20	0.630	2.22	0.714	2.52		1	WG1751088
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1751088
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1751088
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1751088
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1751088
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1751088
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1751088
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1751088
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1751088
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1751088
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1751088
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1751088
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1751088
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1751088
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1751088
Toluene	108-88-3	92.10	0.500	1.88	2.30	8.66		1	WG1751088
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1751088

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	13.3	72.3		1	WG1751088
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1751088
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1751088
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.231	1.13		1	WG1751088
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1751088
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	0.294	1.37		1	WG1751088
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1751088
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1751088
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1751088
m&p-Xylene	1330-20-7	106	0.400	1.73	0.714	3.10		1	WG1751088
o-Xylene	95-47-6	106	0.200	0.867	0.369	1.60		1	WG1751088
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	ND	ND		1	WG1751088
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG1751088
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*104*				WG1751088

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	ND		1	WG1752353

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	4.41	10.5		1	WG1751088
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1751088
Benzene	71-43-2	78.10	0.200	0.639	2.71	8.66		1	WG1751088
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1751088
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1751088
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1751088
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1751088
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1751088
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1751088
Carbon tetrachloride	56-23-5	154	0.200	1.26	0.390	2.46		1	WG1751088
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1751088
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1751088
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1751088
Chloromethane	74-87-3	50.50	0.200	0.413	0.221	0.456		1	WG1751088
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1751088
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1751088
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1751088
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1751088
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1751088
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1751088
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1751088
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1751088
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1751088
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1751088
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1751088
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1751088
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1751088
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1751088
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1751088
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1751088
Ethanol	64-17-5	46.10	1.25	2.36	4.05	7.64		1	WG1751088
Ethylbenzene	100-41-4	106	0.200	0.867	1.69	7.33		1	WG1751088
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.361	1.77		1	WG1751088
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.251	1.41		1	WG1751088
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	1.54	7.62		1	WG1751088
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1751088
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1751088
Heptane	142-82-5	100	0.200	0.818	0.355	1.45		1	WG1751088
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1751088
n-Hexane	110-54-3	86.20	0.630	2.22	1.60	5.64		1	WG1751088
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1751088
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.429	1.49		1	WG1751088
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1751088
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1751088
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1751088
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1751088
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1751088
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1751088
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1751088
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1751088
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1751088
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1751088
Tetrachloroethylene	127-18-4	166	0.200	1.36	23.2	158		1	WG1751088
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1751088
Toluene	108-88-3	92.10	0.500	1.88	8.99	33.9		1	WG1751088
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1751088

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	1.00	5.44	121	658		5	WG1751573
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1751088
Trichloroethylene	79-01-6	131	0.200	1.07	0.442	2.37		1	WG1751088
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.18	5.79		1	WG1751088
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.764	3.75		1	WG1751088
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1751088
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1751088
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1751088
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1751088
m&p-Xylene	1330-20-7	106	0.400	1.73	4.60	19.9		1	WG1751088
o-Xylene	95-47-6	106	0.200	0.867	1.92	8.32		1	WG1751088
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	1.69	4.57		1	WG1751088
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	218	901	B	1	WG1751088
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*102*				WG1751088
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*89.5*				WG1751573

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	1.05		1	WG1752235

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	3.56	8.46		1	WG1751088
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1751088
Benzene	71-43-2	78.10	0.200	0.639	0.465	1.49		1	WG1751088
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1751088
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1751088
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1751088
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1751088
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1751088
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1751088
Carbon tetrachloride	56-23-5	154	0.200	1.26	1.60	10.1		1	WG1751088
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1751088
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1751088
Chloroform	67-66-3	119	0.200	0.973	0.793	3.86		1	WG1751088
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1751088
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1751088
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1751088
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1751088
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1751088
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1751088
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1751088
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1751088
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1751088
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1751088
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	15.7	62.2		1	WG1751088
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1751088
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1751088
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1751088
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1751088
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1751088
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1751088
Ethanol	64-17-5	46.10	1.25	2.36	2.35	4.43		1	WG1751088
Ethylbenzene	100-41-4	106	0.200	0.867	0.412	1.79		1	WG1751088
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1751088
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.327	1.84		1	WG1751088
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	3.44	17.0		1	WG1751088
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1751088
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1751088
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1751088
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1751088
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1751088
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1751088
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1751088
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1751088
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1751088
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1751088
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1751088
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1751088
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1751088
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1751088
Propene	115-07-1	42.10	1.25	2.15	1.25	2.15		1	WG1751088
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1751088
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1751088
Tetrachloroethylene	127-18-4	166	0.200	1.36	3.14	21.3		1	WG1751088
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1751088
Toluene	108-88-3	92.10	0.500	1.88	3.06	11.5		1	WG1751088
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1751088

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	4.00	21.8	474	2580		20	WG1751573
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1751088
Trichloroethylene	79-01-6	131	0.200	1.07	0.360	1.93		1	WG1751088
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.406	1.99		1	WG1751088
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.209	1.03		1	WG1751088
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1751088
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1751088
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1751088
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1751088
m&p-Xylene	1330-20-7	106	0.400	1.73	1.47	6.37		1	WG1751088
o-Xylene	95-47-6	106	0.200	0.867	0.668	2.90		1	WG1751088
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	ND	ND		1	WG1751088
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	323	1330	B	1	WG1751088
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*101*				WG1751088
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*85.2*				WG1751573

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	0.905		1	WG1752353

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	8.00	19.0		1	WG1751088
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1751088
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1751088
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1751088
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1751088
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1751088
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1751088
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1751088
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1751088
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1751088
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1751088
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1751088
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1751088
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1751088
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1751088
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1751088
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1751088
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1751088
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1751088
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1751088
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1751088
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1751088
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1751088
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1751088
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	0.668	2.65		1	WG1751088
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1751088
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1751088
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1751088
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1751088
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1751088
Ethanol	64-17-5	46.10	1.25	2.36	2.04	3.85		1	WG1751088
Ethylbenzene	100-41-4	106	0.200	0.867	0.673	2.92		1	WG1751088
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.236	1.16		1	WG1751088
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.279	1.57		1	WG1751088
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	1.16	5.74		1	WG1751088
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1751088
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1751088
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1751088
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1751088
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1751088
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1751088
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1751088
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1751088
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1751088
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1751088
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1751088
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1751088
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1751088
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1751088
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1751088
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1751088
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1751088
Tetrachloroethylene	127-18-4	166	0.200	1.36	45.7	310		1	WG1751088
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1751088
Toluene	108-88-3	92.10	0.500	1.88	2.88	10.8		1	WG1751088
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1751088

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	2.00	10.9	149	811		10	WG1751573
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1751088
Trichloroethylene	79-01-6	131	0.200	1.07	24.7	132		1	WG1751088
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.40	6.87		1	WG1751088
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.586	2.88		1	WG1751088
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1751088
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1751088
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1751088
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1751088
m&p-Xylene	1330-20-7	106	0.400	1.73	2.82	12.2		1	WG1751088
o-Xylene	95-47-6	106	0.200	0.867	1.42	6.16		1	WG1751088
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	ND	ND		1	WG1751088
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	268	1110	B	1	WG1751088
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*101*				WG1751088
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*86.6*				WG1751573

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	0.782		1	WG1752353

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	3.84	9.12		1	WG1751088
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1751088
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1751088
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1751088
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1751088
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1751088
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1751088
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1751088
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1751088
Carbon tetrachloride	56-23-5	154	0.200	1.26	0.648	4.08		1	WG1751088
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1751088
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1751088
Chloroform	67-66-3	119	0.200	0.973	0.322	1.57		1	WG1751088
Chloromethane	74-87-3	50.50	0.200	0.413	0.313	0.646		1	WG1751088
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1751088
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1751088
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1751088
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1751088
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1751088
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1751088
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1751088
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1751088
1,1-Dichloroethane	75-34-3	98	0.200	0.802	0.212	0.850		1	WG1751088
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	6.95	27.5		1	WG1751088
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1751088
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1751088
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1751088
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1751088
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1751088
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1751088
Ethanol	64-17-5	46.10	1.25	2.36	22.2	41.9		1	WG1751088
Ethylbenzene	100-41-4	106	0.200	0.867	0.212	0.919		1	WG1751088
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1751088
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.283	1.59		1	WG1751088
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	1.70	8.41		1	WG1751088
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1751088
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1751088
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1751088
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1751088
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1751088
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1751088
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.396	1.38		1	WG1751088
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1751088
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1751088
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1751088
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1751088
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1751088
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1751088
2-Propanol	67-63-0	60.10	1.25	3.07	4.29	10.5		1	WG1751088
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1751088
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1751088
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1751088
Tetrachloroethylene	127-18-4	166	0.200	1.36	8.96	60.8		1	WG1751088
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	0.540	1.59		1	WG1751088
Toluene	108-88-3	92.10	0.500	1.88	3.51	13.2		1	WG1751088
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1751088

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	2.00	10.9	142	772		10	WG1751573
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1751088
Trichloroethylene	79-01-6	131	0.200	1.07	0.386	2.07		1	WG1751088
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1751088
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1751088
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1751088
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1751088
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1751088
Vinyl acetate	108-05-4	86.10	0.200	0.704	0.706	2.49		1	WG1751088
m&p-Xylene	1330-20-7	106	0.400	1.73	0.594	2.58		1	WG1751088
o-Xylene	95-47-6	106	0.200	0.867	0.255	1.11		1	WG1751088
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	5.58	15.1		1	WG1751088
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	260	1070	B	1	WG1751088
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*100*				WG1751088
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*88.5*				WG1751573

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	0.251		1	WG1752353

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	1.73	4.11		1	WG1751088
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1751088
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1751088
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1751088
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1751088
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1751088
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1751088
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1751088
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1751088
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1751088
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1751088
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1751088
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1751088
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1751088
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1751088
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1751088
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1751088
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1751088
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1751088
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1751088
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1751088
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1751088
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1751088
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1751088
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	1.13	4.48		1	WG1751088
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1751088
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1751088
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1751088
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1751088
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1751088
Ethanol	64-17-5	46.10	1.25	2.36	3.19	6.01		1	WG1751088
Ethylbenzene	100-41-4	106	0.200	0.867	0.623	2.70		1	WG1751088
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1751088
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.300	1.69		1	WG1751088
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	1.39	6.87		1	WG1751088
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1751088
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1751088
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1751088
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1751088
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1751088
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1751088
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.330	1.15		1	WG1751088
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1751088
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1751088
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1751088
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1751088
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1751088
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1751088
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1751088
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1751088
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1751088
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1751088
Tetrachloroethylene	127-18-4	166	0.200	1.36	83.9	570		1	WG1751088
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1751088
Toluene	108-88-3	92.10	0.500	1.88	2.58	9.72		1	WG1751088
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1751088

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	1.00	5.44	115	626		5	WG1751573
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1751088
Trichloroethylene	79-01-6	131	0.200	1.07	43.6	234		1	WG1751088
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.464	2.28		1	WG1751088
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.289	1.42		1	WG1751088
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1751088
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1751088
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1751088
Vinyl acetate	108-05-4	86.10	0.200	0.704	0.296	1.04		1	WG1751088
m&p-Xylene	1330-20-7	106	0.400	1.73	1.80	7.80		1	WG1751088
o-Xylene	95-47-6	106	0.200	0.867	0.886	3.84		1	WG1751088
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	1.06	2.86		1	WG1751088
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	306	1260	B	1	WG1751088
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*100*				WG1751088
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*88.7*				WG1751573

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	0.781		1	WG1752353

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	27.6	65.6		1	WG1751088
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1751088
Benzene	71-43-2	78.10	0.200	0.639	0.377	1.20		1	WG1751088
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1751088
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1751088
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1751088
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1751088
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1751088
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1751088
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1751088
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1751088
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1751088
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1751088
Chloromethane	74-87-3	50.50	0.200	0.413	0.924	1.91		1	WG1751088
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1751088
Cyclohexane	110-82-7	84.20	0.200	0.689	0.781	2.69		1	WG1751088
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1751088
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1751088
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1751088
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1751088
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1751088
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1751088
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1751088
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	0.416	1.65		1	WG1751088
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1751088
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1751088
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1751088
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1751088
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1751088
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1751088
Ethanol	64-17-5	46.10	12.5	23.6	233	439		10	WG1751573
Ethylbenzene	100-41-4	106	0.200	0.867	0.205	0.889		1	WG1751088
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1751088
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.207	1.16		1	WG1751088
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.607	3.00		1	WG1751088
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1751088
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1751088
Heptane	142-82-5	100	0.200	0.818	1.91	7.81		1	WG1751088
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1751088
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1751088
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1751088
Methylene Chloride	75-09-2	84.90	0.200	0.694	1.86	6.46		1	WG1751088
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1751088
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	1.56	4.60		1	WG1751088
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1751088
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1751088
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1751088
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1751088
2-Propanol	67-63-0	60.10	1.25	3.07	61.7	152		1	WG1751088
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1751088
Styrene	100-42-5	104	0.200	0.851	0.235	1.00		1	WG1751088
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1751088
Tetrachloroethylene	127-18-4	166	0.200	1.36	1.32	8.96		1	WG1751088
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	2.58	7.61		1	WG1751088
Toluene	108-88-3	92.10	0.500	1.88	23.7	89.3		1	WG1751088
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1751088

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	14.6	79.4		1	WG1751088
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1751088
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1751088
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1751088
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1751088
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1751088
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1751088
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1751088
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1751088
m&p-Xylene	1330-20-7	106	0.400	1.73	0.561	2.43		1	WG1751088
o-Xylene	95-47-6	106	0.200	0.867	0.268	1.16		1	WG1751088
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	2.01	5.43		1	WG1751088
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG1751088
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*102*				WG1751088
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*90.6*				WG1751573

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	0.786		1	WG1752353

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	4.12	9.79		1	WG1751088
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1751088
Benzene	71-43-2	78.10	0.200	0.639	0.254	0.811		1	WG1751088
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1751088
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1751088
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1751088
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1751088
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1751088
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1751088
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1751088
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1751088
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1751088
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1751088
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1751088
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1751088
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1751088
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1751088
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1751088
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1751088
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1751088
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1751088
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1751088
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1751088
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1751088
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1751088
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1751088
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1751088
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1751088
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1751088
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1751088
Ethanol	64-17-5	46.10	1.25	2.36	4.94	9.31		1	WG1751088
Ethylbenzene	100-41-4	106	0.200	0.867	0.371	1.61		1	WG1751088
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1751088
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.248	1.39		1	WG1751088
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.838	4.14		1	WG1751088
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1751088
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1751088
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1751088
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1751088
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1751088
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1751088
Methylene Chloride	75-09-2	84.90	0.200	0.694	1.54	5.35		1	WG1751088
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1751088
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1751088
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1751088
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1751088
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1751088
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1751088
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1751088
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1751088
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1751088
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1751088
Tetrachloroethylene	127-18-4	166	2.00	13.6	136	923		10	WG1751573
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1751088
Toluene	108-88-3	92.10	0.500	1.88	2.60	9.79		1	WG1751088
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1751088

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	42.7	232		1	WG1751088
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1751088
Trichloroethylene	79-01-6	131	0.200	1.07	1.06	5.68		1	WG1751088
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.475	2.33		1	WG1751088
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.248	1.22		1	WG1751088
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1751088
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1751088
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1751088
Vinyl acetate	108-05-4	86.10	0.200	0.704	0.343	1.21		1	WG1751088
m&p-Xylene	1330-20-7	106	0.400	1.73	1.43	6.20		1	WG1751088
o-Xylene	95-47-6	106	0.200	0.867	0.737	3.20		1	WG1751088
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	4.36	11.8		1	WG1751088
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	299	1240	B	1	WG1751088
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*99.9*				WG1751088
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*90.0*				WG1751573

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	0.699		1	WG1752353

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	4.61	11.0		1	WG1751088
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1751088
Benzene	71-43-2	78.10	0.200	0.639	0.360	1.15		1	WG1751088
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1751088
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1751088
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1751088
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1751088
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1751088
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1751088
Carbon tetrachloride	56-23-5	154	0.200	1.26	0.362	2.28		1	WG1751088
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1751088
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1751088
Chloroform	67-66-3	119	0.200	0.973	0.238	1.16		1	WG1751088
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1751088
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1751088
Cyclohexane	110-82-7	84.20	0.200	0.689	0.906	3.12		1	WG1751088
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1751088
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1751088
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1751088
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1751088
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1751088
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1751088
1,1-Dichloroethane	75-34-3	98	0.200	0.802	0.475	1.90		1	WG1751088
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	1.93	7.65		1	WG1751088
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1751088
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1751088
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1751088
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1751088
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1751088
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1751088
Ethanol	64-17-5	46.10	1.25	2.36	31.7	59.8		1	WG1751088
Ethylbenzene	100-41-4	106	0.200	0.867	0.722	3.13		1	WG1751088
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1751088
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.577	3.24		1	WG1751088
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	1.31	6.48		1	WG1751088
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1751088
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1751088
Heptane	142-82-5	100	0.200	0.818	1.06	4.34		1	WG1751088
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1751088
n-Hexane	110-54-3	86.20	0.630	2.22	3.71	13.1		1	WG1751088
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1751088
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.414	1.44		1	WG1751088
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1751088
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1751088
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1751088
Methyl methacrylate	80-62-6	100.12	0.200	0.819	0.305	1.25		1	WG1751088
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1751088
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1751088
2-Propanol	67-63-0	60.10	1.25	3.07	6.04	14.8		1	WG1751088
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1751088
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1751088
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1751088
Tetrachloroethylene	127-18-4	166	0.200	1.36	60.5	411		1	WG1751088
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	0.387	1.14		1	WG1751088
Toluene	108-88-3	92.10	0.500	1.88	11.2	42.2		1	WG1751088
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1751088

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	2.00	10.9	166	903		10	WG1751573
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1751088
Trichloroethylene	79-01-6	131	0.200	1.07	0.424	2.27		1	WG1751088
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.219	1.07		1	WG1751088
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1751088
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1751088
Vinyl chloride	75-01-4	62.50	0.200	0.511	0.203	0.519		1	WG1751088
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1751088
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1751088
m&p-Xylene	1330-20-7	106	0.400	1.73	2.52	10.9		1	WG1751088
o-Xylene	95-47-6	106	0.200	0.867	0.788	3.42		1	WG1751088
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	ND	ND		1	WG1751088
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	293	1210	B	1	WG1751088
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*102*				WG1751088
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*88.9*				WG1751573

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	1.01		1	WG1752353

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	ND	ND		1	WG1751173
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1751173
Benzene	71-43-2	78.10	0.200	0.639	0.454	1.45		1	WG1751173
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1751173
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1751173
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1751173
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1751173
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1751173
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1751173
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1751173
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1751173
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1751173
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1751173
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1751173
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1751173
Cyclohexane	110-82-7	84.20	0.200	0.689	2.26	7.78		1	WG1751173
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1751173
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1751173
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1751173
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1751173
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1751173
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1751173
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1751173
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1751173
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1751173
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1751173
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1751173
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1751173
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1751173
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1751173
Ethanol	64-17-5	46.10	1.25	2.36	19.0	35.8		1	WG1751173
Ethylbenzene	100-41-4	106	0.200	0.867	0.660	2.86		1	WG1751173
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1751173
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.255	1.43		1	WG1751173
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.752	3.72		1	WG1751173
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1751173
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1751173
Heptane	142-82-5	100	0.200	0.818	0.589	2.41		1	WG1751173
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1751173
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1751173
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1751173
Methylene Chloride	75-09-2	84.90	0.200	0.694	1.75	6.08		1	WG1751173
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1751173
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1751173
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1751173
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1751173
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1751173
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1751173
2-Propanol	67-63-0	60.10	1.25	3.07	4.05	9.96		1	WG1751173
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1751173
Styrene	100-42-5	104	0.200	0.851	0.216	0.919		1	WG1751173
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1751173
Tetrachloroethylene	127-18-4	166	2.00	13.6	68.1	462		10	WG1751638
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1751173
Toluene	108-88-3	92.10	0.500	1.88	3.84	14.5		1	WG1751173
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1751173

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	55.3	301		1	WG1751173
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1751173
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1751173
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.742	3.64		1	WG1751173
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.303	1.49		1	WG1751173
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	15.2	71.0		1	WG1751173
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1751173
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1751173
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1751173
m&p-Xylene	1330-20-7	106	0.400	1.73	1.99	8.63		1	WG1751173
o-Xylene	95-47-6	106	0.200	0.867	1.16	5.03		1	WG1751173
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	5.67	15.3		1	WG1751173
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	1360	5620		1	WG1751173
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*100*				WG1751173
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*101*				WG1751638

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	ND		1	WG1752353

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	13.1	31.1		1	WG1751173
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1751173
Benzene	71-43-2	78.10	0.200	0.639	0.349	1.11		1	WG1751173
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1751173
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1751173
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1751173
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1751173
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1751173
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1751173
Carbon tetrachloride	56-23-5	154	0.200	1.26	0.431	2.71		1	WG1751173
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1751173
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1751173
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1751173
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1751173
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1751173
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1751173
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1751173
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1751173
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1751173
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1751173
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1751173
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1751173
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1751173
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	1.22	4.84		1	WG1751173
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1751173
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1751173
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1751173
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1751173
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1751173
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1751173
Ethanol	64-17-5	46.10	1.25	2.36	6.36	12.0		1	WG1751173
Ethylbenzene	100-41-4	106	0.200	0.867	0.936	4.06		1	WG1751173
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1751173
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.310	1.74		1	WG1751173
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	1.33	6.58		1	WG1751173
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1751173
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1751173
Heptane	142-82-5	100	0.200	0.818	0.298	1.22		1	WG1751173
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1751173
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1751173
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1751173
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.751	2.61		1	WG1751173
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1751173
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	1.71	5.04		1	WG1751173
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1751173
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1751173
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1751173
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1751173
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1751173
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1751173
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1751173
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1751173
Tetrachloroethylene	127-18-4	166	0.200	1.36	56.8	386		1	WG1751173
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1751173
Toluene	108-88-3	92.10	0.500	1.88	7.34	27.6		1	WG1751173
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1751173

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	2.00	10.9	163	887		10	WG1751638
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1751173
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1751173
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.628	3.08		1	WG1751173
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.322	1.58		1	WG1751173
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1751173
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1751173
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1751173
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1751173
m&p-Xylene	1330-20-7	106	0.400	1.73	2.90	12.6		1	WG1751173
o-Xylene	95-47-6	106	0.200	0.867	1.25	5.42		1	WG1751173
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	ND	ND		1	WG1751173
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	367	1520	B	1	WG1751173
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*99.8*				WG1751173
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*98.9*				WG1751638

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	ND		1	WG1752353

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	1.38	3.28		1	WG1751173
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1751173
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1751173
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1751173
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1751173
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1751173
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1751173
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1751173
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1751173
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1751173
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1751173
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1751173
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1751173
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1751173
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1751173
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1751173
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1751173
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1751173
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1751173
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1751173
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1751173
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1751173
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1751173
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1751173
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1751173
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1751173
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1751173
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1751173
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1751173
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1751173
Ethanol	64-17-5	46.10	1.25	2.36	4.48	8.45		1	WG1751173
Ethylbenzene	100-41-4	106	0.200	0.867	0.328	1.42		1	WG1751173
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1751173
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.263	1.48		1	WG1751173
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.771	3.81		1	WG1751173
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1751173
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1751173
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1751173
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1751173
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1751173
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1751173
Methylene Chloride	75-09-2	84.90	0.200	0.694	1.13	3.92		1	WG1751173
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1751173
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1751173
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1751173
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1751173
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1751173
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1751173
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1751173
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1751173
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1751173
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1751173
Tetrachloroethylene	127-18-4	166	0.200	1.36	59.0	401		1	WG1751173
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1751173
Toluene	108-88-3	92.10	0.500	1.88	1.31	4.93		1	WG1751173
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1751173

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	52.4	285		1	WG1751173
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1751173
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1751173
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.426	2.09		1	WG1751173
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.296	1.45		1	WG1751173
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1751173
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1751173
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1751173
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1751173
m&p-Xylene	1330-20-7	106	0.400	1.73	0.930	4.03		1	WG1751173
o-Xylene	95-47-6	106	0.200	0.867	0.567	2.46		1	WG1751173
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	ND	ND		1	WG1751173
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	214	884	B	1	WG1751173
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*102*				WG1751173

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	ND		1	WG1752353

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	21.3	50.6		1	WG1751173
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1751173
Benzene	71-43-2	78.10	0.200	0.639	0.358	1.14		1	WG1751173
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1751173
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1751173
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1751173
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1751173
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1751173
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1751173
Carbon tetrachloride	56-23-5	154	0.200	1.26	0.367	2.31		1	WG1751173
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1751173
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1751173
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1751173
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1751173
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1751173
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1751173
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1751173
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1751173
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1751173
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1751173
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1751173
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1751173
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1751173
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1751173
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1751173
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1751173
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1751173
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1751173
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1751173
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1751173
Ethanol	64-17-5	46.10	1.25	2.36	5.95	11.2		1	WG1751173
Ethylbenzene	100-41-4	106	0.200	0.867	0.921	3.99		1	WG1751173
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.222	1.09		1	WG1751173
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.319	1.79		1	WG1751173
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	1.14	5.64		1	WG1751173
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1751173
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1751173
Heptane	142-82-5	100	0.200	0.818	0.237	0.969		1	WG1751173
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1751173
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1751173
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1751173
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1751173
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1751173
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	3.50	10.3		1	WG1751173
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	1.38	5.65		1	WG1751173
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1751173
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1751173
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1751173
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1751173
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1751173
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1751173
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1751173
Tetrachloroethylene	127-18-4	166	0.200	1.36	18.3	124		1	WG1751173
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1751173
Toluene	108-88-3	92.10	0.500	1.88	5.63	21.2		1	WG1751173
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1751173

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	2.00	10.9	152	827		10	WG1751638
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1751173
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1751173
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.908	4.46		1	WG1751173
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.524	2.57		1	WG1751173
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1751173
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1751173
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1751173
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1751173
m&p-Xylene	1330-20-7	106	0.400	1.73	3.04	13.2		1	WG1751173
o-Xylene	95-47-6	106	0.200	0.867	1.35	5.85		1	WG1751173
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	ND	ND		1	WG1751173
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	241	996	B	1	WG1751173
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*100*				WG1751173
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*99.8*				WG1751638

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	0.375		1	WG1752353

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	1.94	4.61		1	WG1751173
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1751173
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1751173
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1751173
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1751173
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1751173
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1751173
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1751173
Carbon disulfide	75-15-0	76.10	0.200	0.622	2.27	7.07		1	WG1751173
Carbon tetrachloride	56-23-5	154	0.200	1.26	0.298	1.88		1	WG1751173
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1751173
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1751173
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1751173
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1751173
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1751173
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1751173
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1751173
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1751173
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1751173
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1751173
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1751173
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1751173
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1751173
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1751173
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1751173
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1751173
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1751173
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1751173
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1751173
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1751173
Ethanol	64-17-5	46.10	1.25	2.36	2.78	5.24		1	WG1751173
Ethylbenzene	100-41-4	106	0.200	0.867	1.25	5.42		1	WG1751173
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.348	1.71		1	WG1751173
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.363	2.04		1	WG1751173
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	1.64	8.11		1	WG1751173
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1751173
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1751173
Heptane	142-82-5	100	0.200	0.818	0.251	1.03		1	WG1751173
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1751173
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1751173
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1751173
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1751173
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1751173
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1751173
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1751173
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1751173
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1751173
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1751173
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1751173
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1751173
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1751173
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1751173
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.637	4.32		1	WG1751173
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1751173
Toluene	108-88-3	92.10	0.500	1.88	3.54	13.3		1	WG1751173
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1751173

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	4.00	21.8	65.6	357		20	WG1752500
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1751173
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1751173
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.662	3.25		1	WG1751173
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.723	3.55		1	WG1751173
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	0.304	1.42		1	WG1751173
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1751173
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1751173
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1751173
m&p-Xylene	1330-20-7	106	0.400	1.73	2.40	10.4		1	WG1751173
o-Xylene	95-47-6	106	0.200	0.867	1.54	6.68		1	WG1751173
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	ND	ND		1	WG1751173
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	223	921	B	1	WG1751173
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*101*				WG1751173
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*97.4*				WG1752500

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	0.237		1	WG1752353

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	2.53	6.01		1	WG1751173
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1751173
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1751173
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1751173
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1751173
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1751173
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1751173
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1751173
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1751173
Carbon tetrachloride	56-23-5	154	0.200	1.26	0.480	3.02		1	WG1751173
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1751173
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1751173
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1751173
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1751173
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1751173
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1751173
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1751173
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1751173
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1751173
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1751173
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1751173
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1751173
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1751173
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1751173
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1751173
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1751173
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1751173
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1751173
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1751173
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1751173
Ethanol	64-17-5	46.10	1.25	2.36	2.21	4.17		1	WG1751173
Ethylbenzene	100-41-4	106	0.200	0.867	0.369	1.60		1	WG1751173
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1751173
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.391	2.20		1	WG1751173
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	2.18	10.8		1	WG1751173
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1751173
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1751173
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1751173
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1751173
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1751173
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1751173
Methylene Chloride	75-09-2	84.90	0.200	0.694	1.29	4.48		1	WG1751173
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1751173
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1751173
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1751173
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1751173
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1751173
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1751173
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1751173
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1751173
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1751173
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1751173
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1751173
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1751173
Toluene	108-88-3	92.10	0.500	1.88	3.45	13.0		1	WG1751173
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1751173

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	2.00	10.9	168	914		10	WG1751638
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1751173
Trichloroethylene	79-01-6	131	0.200	1.07	0.406	2.18		1	WG1751173
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.363	1.78		1	WG1751173
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1751173
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1751173
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1751173
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1751173
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1751173
m&p-Xylene	1330-20-7	106	0.400	1.73	1.32	5.72		1	WG1751173
o-Xylene	95-47-6	106	0.200	0.867	0.686	2.97		1	WG1751173
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	ND	ND		1	WG1751173
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	320	1320	B	1	WG1751173
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*99.7*				WG1751173
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*99.1*				WG1751638

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	ND		1	WG1752353

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	2.44	5.80		1	WG1751173
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1751173
Benzene	71-43-2	78.10	0.200	0.639	0.224	0.716		1	WG1751173
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1751173
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1751173
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1751173
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1751173
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1751173
Carbon disulfide	75-15-0	76.10	0.200	0.622	0.971	3.02		1	WG1751173
Carbon tetrachloride	56-23-5	154	0.200	1.26	0.264	1.66		1	WG1751173
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1751173
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1751173
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1751173
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1751173
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1751173
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1751173
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1751173
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1751173
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1751173
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1751173
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1751173
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1751173
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1751173
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1751173
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1751173
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1751173
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1751173
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1751173
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1751173
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1751173
Ethanol	64-17-5	46.10	1.25	2.36	5.39	10.2		1	WG1751173
Ethylbenzene	100-41-4	106	0.200	0.867	0.644	2.79		1	WG1751173
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1751173
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.337	1.89		1	WG1751173
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	2.09	10.3		1	WG1751173
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1751173
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1751173
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1751173
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1751173
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1751173
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1751173
Methylene Chloride	75-09-2	84.90	0.200	0.694	2.33	8.09		1	WG1751173
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1751173
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1751173
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1751173
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1751173
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1751173
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1751173
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1751173
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1751173
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1751173
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1751173
Tetrachloroethylene	127-18-4	166	0.200	1.36	2.28	15.5		1	WG1751173
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1751173
Toluene	108-88-3	92.10	0.500	1.88	3.29	12.4		1	WG1751173
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1751173

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	2.00	10.9	127	691		10	WG1751638
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1751173
Trichloroethylene	79-01-6	131	0.200	1.07	0.967	5.18		1	WG1751173
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.581	2.85		1	WG1751173
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.327	1.60		1	WG1751173
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1751173
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1751173
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1751173
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1751173
m&p-Xylene	1330-20-7	106	0.400	1.73	1.87	8.11		1	WG1751173
o-Xylene	95-47-6	106	0.200	0.867	1.04	4.51		1	WG1751173
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	5.46	14.7		1	WG1751173
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	218	901	B	1	WG1751173
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*99.0*				WG1751173
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*100*				WG1751638

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	ND		1	WG1752353

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	ND	ND		1	WG1751173
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1751173
Benzene	71-43-2	78.10	0.200	0.639	2.62	8.37		1	WG1751173
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1751173
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1751173
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1751173
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1751173
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1751173
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1751173
Carbon tetrachloride	56-23-5	154	0.200	1.26	0.464	2.92		1	WG1751173
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1751173
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1751173
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1751173
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1751173
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1751173
Cyclohexane	110-82-7	84.20	0.200	0.689	2.89	9.95		1	WG1751173
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1751173
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1751173
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1751173
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1751173
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1751173
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1751173
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1751173
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	1.03	4.08		1	WG1751173
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1751173
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1751173
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1751173
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1751173
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1751173
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1751173
Ethanol	64-17-5	46.10	1.25	2.36	56.9	107		1	WG1751173
Ethylbenzene	100-41-4	106	0.200	0.867	1.05	4.55		1	WG1751173
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.500	2.45		1	WG1751173
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.333	1.87		1	WG1751173
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	2.24	11.1		1	WG1751173
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1751173
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1751173
Heptane	142-82-5	100	0.200	0.818	2.13	8.71		1	WG1751173
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1751173
n-Hexane	110-54-3	86.20	0.630	2.22	6.22	21.9		1	WG1751173
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1751173
Methylene Chloride	75-09-2	84.90	0.200	0.694	3.57	12.4		1	WG1751173
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1751173
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1751173
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1751173
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1751173
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1751173
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1751173
2-Propanol	67-63-0	60.10	1.25	3.07	2.67	6.56		1	WG1751173
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1751173
Styrene	100-42-5	104	0.200	0.851	0.274	1.17		1	WG1751173
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1751173
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.273	1.85		1	WG1751173
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	2.16	6.37		1	WG1751173
Toluene	108-88-3	92.10	0.500	1.88	12.1	45.6		1	WG1751173
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1751173

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	2.00	10.9	168	914		10	WG1751638
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1751173
Trichloroethylene	79-01-6	131	0.200	1.07	0.700	3.75		1	WG1751173
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.669	3.28		1	WG1751173
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.289	1.42		1	WG1751173
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	2.07	9.67		1	WG1751173
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1751173
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1751173
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1751173
m&p-Xylene	1330-20-7	106	0.400	1.73	3.17	13.7		1	WG1751173
o-Xylene	95-47-6	106	0.200	0.867	1.30	5.64		1	WG1751173
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	ND	ND		1	WG1751173
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	326	1350	B	1	WG1751173
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*100*				WG1751173
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*99.4*				WG1751638

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	0.132		1	WG1752353

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	14.8	35.2		1	WG1751173
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1751173
Benzene	71-43-2	78.10	0.200	0.639	1.23	3.93		1	WG1751173
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1751173
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1751173
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1751173
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1751173
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1751173
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1751173
Carbon tetrachloride	56-23-5	154	0.200	1.26	1.01	6.36		1	WG1751173
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1751173
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1751173
Chloroform	67-66-3	119	0.200	0.973	1.12	5.45		1	WG1751173
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1751173
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1751173
Cyclohexane	110-82-7	84.20	0.200	0.689	1.20	4.13		1	WG1751173
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1751173
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1751173
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1751173
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1751173
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1751173
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1751173
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1751173
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	18.1	71.7		1	WG1751173
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1751173
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1751173
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1751173
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1751173
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1751173
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1751173
Ethanol	64-17-5	46.10	1.25	2.36	29.3	55.2		1	WG1751173
Ethylbenzene	100-41-4	106	0.200	0.867	0.620	2.69		1	WG1751173
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.397	1.95		1	WG1751173
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.402	2.26		1	WG1751173
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	4.52	22.4		1	WG1751173
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1751173
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1751173
Heptane	142-82-5	100	0.200	0.818	1.00	4.09		1	WG1751173
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1751173
n-Hexane	110-54-3	86.20	0.630	2.22	2.51	8.85		1	WG1751173
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1751173
Methylene Chloride	75-09-2	84.90	0.200	0.694	1.94	6.74		1	WG1751173
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1751173
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	1.55	4.57		1	WG1751173
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1751173
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1751173
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1751173
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1751173
2-Propanol	67-63-0	60.10	1.25	3.07	4.31	10.6		1	WG1751173
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1751173
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1751173
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1751173
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1751173
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	1.18	3.48		1	WG1751173
Toluene	108-88-3	92.10	0.500	1.88	7.31	27.5		1	WG1751173
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1751173

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	2.00	10.9	353	1920		10	WG1751638
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1751173
Trichloroethylene	79-01-6	131	0.200	1.07	0.482	2.58		1	WG1751173
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.537	2.64		1	WG1751173
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.229	1.12		1	WG1751173
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	0.872	4.07		1	WG1751173
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1751173
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1751173
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1751173
m&p-Xylene	1330-20-7	106	0.400	1.73	2.19	9.49		1	WG1751173
o-Xylene	95-47-6	106	0.200	0.867	0.891	3.86		1	WG1751173
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	ND	ND		1	WG1751173
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	412	1700	B	1	WG1751173
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*98.7*				WG1751173
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*98.6*				WG1751638

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	0.168		1	WG1752353

Method Blank (MB)

(MB) R3712395-3 10/04/21 10:03

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630
Isopropylbenzene	U		0.0777	0.200

Method Blank (MB)

(MB) R3712395-3 10/04/21 10:03

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.150	J	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
Ethanol	U		0.265	1.25
TPH (GC/MS) Low Fraction	51.7	J	39.7	200
1,1-Difluoroethane	U		0.129	1.00
(S) 1,4-Bromofluorobenzene	*102*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3712395-1 10/04/21 09:04 • (LCSD) R3712395-2 10/04/21 09:34

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethanol	3.75	4.33	4.01	115	107	55.0-148			7.67	25
Propene	3.75	3.57	3.66	95.2	97.6	64.0-144			2.49	25
Dichlorodifluoromethane	3.75	3.89	3.91	104	104	64.0-139			0.513	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3712395-1 10/04/21 09:04 • (LCSD) R3712395-2 10/04/21 09:34

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,2-Dichlorotetrafluoroethane	3.75	3.88	3.82	103	102	70.0-130			1.56	25
Chloromethane	3.75	4.06	3.95	108	105	70.0-130			2.75	25
Vinyl chloride	3.75	3.87	3.94	103	105	70.0-130			1.79	25
1,3-Butadiene	3.75	4.15	4.02	111	107	70.0-130			3.18	25
Bromomethane	3.75	3.71	3.63	98.9	96.8	70.0-130			2.18	25
Chloroethane	3.75	4.04	4.26	108	114	70.0-130			5.30	25
Trichlorofluoromethane	3.75	3.64	3.63	97.1	96.8	70.0-130			0.275	25
1,1,2-Trichlorotrifluoroethane	3.75	3.75	3.73	100	99.5	70.0-130			0.535	25
1,1-Dichloroethene	3.75	4.07	4.02	109	107	70.0-130			1.24	25
1,1-Dichloroethane	3.75	3.81	3.81	102	102	70.0-130			0.000	25
Acetone	3.75	4.44	4.39	118	117	70.0-130			1.13	25
2-Propanol	3.75	4.08	4.09	109	109	70.0-139			0.245	25
Carbon disulfide	3.75	3.74	3.70	99.7	98.7	70.0-130			1.08	25
Methylene Chloride	3.75	4.03	4.07	107	109	70.0-130			0.988	25
MTBE	3.75	3.79	3.81	101	102	70.0-130			0.526	25
trans-1,2-Dichloroethene	3.75	3.82	3.98	102	106	70.0-130			4.10	25
n-Hexane	3.75	3.68	3.69	98.1	98.4	70.0-130			0.271	25
Vinyl acetate	3.75	3.30	3.31	88.0	88.3	70.0-130			0.303	25
Methyl Ethyl Ketone	3.75	3.66	3.78	97.6	101	70.0-130			3.23	25
cis-1,2-Dichloroethene	3.75	3.76	3.77	100	101	70.0-130			0.266	25
Chloroform	3.75	4.01	4.09	107	109	70.0-130			1.98	25
Cyclohexane	3.75	3.69	3.77	98.4	101	70.0-130			2.14	25
1,1,1-Trichloroethane	3.75	3.99	3.98	106	106	70.0-130			0.251	25
Carbon tetrachloride	3.75	4.07	4.06	109	108	70.0-130			0.246	25
Benzene	3.75	3.77	3.76	101	100	70.0-130			0.266	25
1,2-Dichloroethane	3.75	3.97	3.93	106	105	70.0-130			1.01	25
Heptane	3.75	3.33	3.23	88.8	86.1	70.0-130			3.05	25
Trichloroethylene	3.75	3.95	3.92	105	105	70.0-130			0.762	25
1,2-Dichloropropane	3.75	3.73	3.79	99.5	101	70.0-130			1.60	25
1,4-Dioxane	3.75	3.62	3.61	96.5	96.3	70.0-140			0.277	25
Bromodichloromethane	3.75	3.93	3.91	105	104	70.0-130			0.510	25
cis-1,3-Dichloropropene	3.75	3.70	3.63	98.7	96.8	70.0-130			1.91	25
4-Methyl-2-pentanone (MIBK)	3.75	3.31	3.27	88.3	87.2	70.0-139			1.22	25
Toluene	3.75	3.86	3.77	103	101	70.0-130			2.36	25
trans-1,3-Dichloropropene	3.75	3.79	3.88	101	103	70.0-130			2.35	25
1,1,2-Trichloroethane	3.75	3.91	3.87	104	103	70.0-130			1.03	25
Tetrachloroethylene	3.75	3.44	3.49	91.7	93.1	70.0-130			1.44	25
Methyl Butyl Ketone	3.75	3.14	3.16	83.7	84.3	70.0-149			0.635	25
Dibromochloromethane	3.75	3.75	3.74	100	99.7	70.0-130			0.267	25
1,2-Dibromoethane	3.75	3.98	3.90	106	104	70.0-130			2.03	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3712395-1 10/04/21 09:04 • (LCSD) R3712395-2 10/04/21 09:34

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chlorobenzene	3.75	3.71	3.76	98.9	100	70.0-130			1.34	25
Ethylbenzene	3.75	3.83	3.82	102	102	70.0-130			0.261	25
m&p-Xylene	7.50	7.77	7.74	104	103	70.0-130			0.387	25
o-Xylene	3.75	3.85	3.91	103	104	70.0-130			1.55	25
Styrene	3.75	3.80	3.77	101	101	70.0-130			0.793	25
Bromoform	3.75	3.24	3.20	86.4	85.3	70.0-130			1.24	25
1,1,2,2-Tetrachloroethane	3.75	3.96	3.96	106	106	70.0-130			0.000	25
4-Ethyltoluene	3.75	3.75	3.78	100	101	70.0-130			0.797	25
1,3,5-Trimethylbenzene	3.75	3.79	3.85	101	103	70.0-130			1.57	25
1,2,4-Trimethylbenzene	3.75	3.85	3.88	103	103	70.0-130			0.776	25
1,3-Dichlorobenzene	3.75	3.74	3.85	99.7	103	70.0-130			2.90	25
1,4-Dichlorobenzene	3.75	3.84	3.87	102	103	70.0-130			0.778	25
Benzyl Chloride	3.75	3.77	3.62	101	96.5	70.0-152			4.06	25
1,2-Dichlorobenzene	3.75	3.78	3.75	101	100	70.0-130			0.797	25
1,2,4-Trichlorobenzene	3.75	3.74	3.68	99.7	98.1	70.0-160			1.62	25
Hexachloro-1,3-butadiene	3.75	3.41	3.34	90.9	89.1	70.0-151			2.07	25
Naphthalene	3.75	3.97	3.95	106	105	70.0-159			0.505	25
TPH (GC/MS) Low Fraction	203	224	225	110	111	70.0-130			0.445	25
Allyl Chloride	3.75	3.95	3.88	105	103	70.0-130			1.79	25
2-Chlorotoluene	3.75	3.81	3.77	102	101	70.0-130			1.06	25
Methyl Methacrylate	3.75	3.64	3.59	97.1	95.7	70.0-130			1.38	25
Tetrahydrofuran	3.75	3.34	3.19	89.1	85.1	70.0-137			4.59	25
2,2,4-Trimethylpentane	3.75	3.61	3.61	96.3	96.3	70.0-130			0.000	25
Vinyl Bromide	3.75	3.57	3.61	95.2	96.3	70.0-130			1.11	25
Isopropylbenzene	3.75	3.85	3.85	103	103	70.0-130			0.000	25
1,1-Difluoroethane	3.75	3.89	3.94	104	105	70.0-130			1.28	25
(S) 1,4-Bromofluorobenzene				*104*	*103*	*60.0-140*				

Method Blank (MB)

(MB) R3712372-3 10/04/21 12:51

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630
Isopropylbenzene	U		0.0777	0.200

Method Blank (MB)

(MB) R3712372-3 10/04/21 12:51

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
Ethanol	U		0.265	1.25
TPH (GC/MS) Low Fraction	73.5	J	39.7	200
1,1-Difluoroethane	U		0.129	1.00
(S) 1,4-Bromofluorobenzene	*100*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3712372-1 10/04/21 11:53 • (LCSD) R3712372-2 10/04/21 12:23

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethanol	3.75	3.57	3.69	95.2	98.4	55.0-148			3.31	25
Propene	3.75	3.76	3.76	100	100	64.0-144			0.000	25
Dichlorodifluoromethane	3.75	4.06	4.05	108	108	64.0-139			0.247	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3712372-1 10/04/21 11:53 • (LCSD) R3712372-2 10/04/21 12:23

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,2-Dichlorotetrafluoroethane	3.75	3.95	4.03	105	107	70.0-130			2.01	25
Chloromethane	3.75	4.15	4.04	111	108	70.0-130			2.69	25
Vinyl chloride	3.75	4.09	4.31	109	115	70.0-130			5.24	25
1,3-Butadiene	3.75	4.05	4.26	108	114	70.0-130			5.05	25
Bromomethane	3.75	3.87	3.89	103	104	70.0-130			0.515	25
Chloroethane	3.75	3.80	3.74	101	99.7	70.0-130			1.59	25
Trichlorofluoromethane	3.75	3.75	3.77	100	101	70.0-130			0.532	25
1,1,2-Trichlorotrifluoroethane	3.75	4.12	4.07	110	109	70.0-130			1.22	25
1,1-Dichloroethene	3.75	4.04	3.97	108	106	70.0-130			1.75	25
1,1-Dichloroethane	3.75	3.92	3.94	105	105	70.0-130			0.509	25
Acetone	3.75	3.70	3.51	98.7	93.6	70.0-130			5.27	25
2-Propanol	3.75	3.75	3.80	100	101	70.0-139			1.32	25
Carbon disulfide	3.75	3.91	3.96	104	106	70.0-130			1.27	25
Methylene Chloride	3.75	4.06	3.90	108	104	70.0-130			4.02	25
MTBE	3.75	3.79	3.80	101	101	70.0-130			0.264	25
trans-1,2-Dichloroethene	3.75	4.02	3.89	107	104	70.0-130			3.29	25
n-Hexane	3.75	3.78	3.79	101	101	70.0-130			0.264	25
Vinyl acetate	3.75	3.88	3.89	103	104	70.0-130			0.257	25
Methyl Ethyl Ketone	3.75	3.98	3.88	106	103	70.0-130			2.54	25
cis-1,2-Dichloroethene	3.75	3.90	3.87	104	103	70.0-130			0.772	25
Chloroform	3.75	3.82	3.84	102	102	70.0-130			0.522	25
Cyclohexane	3.75	3.89	3.98	104	106	70.0-130			2.29	25
1,1,1-Trichloroethane	3.75	3.98	3.91	106	104	70.0-130			1.77	25
Carbon tetrachloride	3.75	4.11	4.22	110	113	70.0-130			2.64	25
Benzene	3.75	3.86	3.81	103	102	70.0-130			1.30	25
1,2-Dichloroethane	3.75	3.94	3.82	105	102	70.0-130			3.09	25
Heptane	3.75	3.78	3.64	101	97.1	70.0-130			3.77	25
Trichloroethylene	3.75	3.90	3.80	104	101	70.0-130			2.60	25
1,2-Dichloropropane	3.75	3.92	3.77	105	101	70.0-130			3.90	25
1,4-Dioxane	3.75	3.85	3.83	103	102	70.0-140			0.521	25
Bromodichloromethane	3.75	3.99	3.94	106	105	70.0-130			1.26	25
cis-1,3-Dichloropropene	3.75	3.94	3.75	105	100	70.0-130			4.94	25
4-Methyl-2-pentanone (MIBK)	3.75	3.83	3.73	102	99.5	70.0-139			2.65	25
Toluene	3.75	3.83	3.69	102	98.4	70.0-130			3.72	25
trans-1,3-Dichloropropene	3.75	4.12	3.84	110	102	70.0-130			7.04	25
1,1,2-Trichloroethane	3.75	3.84	3.79	102	101	70.0-130			1.31	25
Tetrachloroethylene	3.75	3.79	3.81	101	102	70.0-130			0.526	25
Methyl Butyl Ketone	3.75	3.78	3.64	101	97.1	70.0-149			3.77	25
Dibromochloromethane	3.75	4.13	4.09	110	109	70.0-130			0.973	25
1,2-Dibromoethane	3.75	3.85	3.92	103	105	70.0-130			1.80	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3712372-1 10/04/21 11:53 • (LCSD) R3712372-2 10/04/21 12:23

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chlorobenzene	3.75	3.91	3.78	104	101	70.0-130			3.38	25
Ethylbenzene	3.75	3.80	3.71	101	98.9	70.0-130			2.40	25
m&p-Xylene	7.50	7.68	7.44	102	99.2	70.0-130			3.17	25
o-Xylene	3.75	3.89	3.77	104	101	70.0-130			3.13	25
Styrene	3.75	3.80	3.82	101	102	70.0-130			0.525	25
Bromoform	3.75	4.20	4.18	112	111	70.0-130			0.477	25
1,1,2,2-Tetrachloroethane	3.75	3.75	3.80	100	101	70.0-130			1.32	25
4-Ethyltoluene	3.75	3.86	3.76	103	100	70.0-130			2.62	25
1,3,5-Trimethylbenzene	3.75	3.81	3.77	102	101	70.0-130			1.06	25
1,2,4-Trimethylbenzene	3.75	3.79	3.70	101	98.7	70.0-130			2.40	25
1,3-Dichlorobenzene	3.75	3.95	3.90	105	104	70.0-130			1.27	25
1,4-Dichlorobenzene	3.75	3.81	3.80	102	101	70.0-130			0.263	25
Benzyl Chloride	3.75	4.26	4.12	114	110	70.0-152			3.34	25
1,2-Dichlorobenzene	3.75	3.83	3.79	102	101	70.0-130			1.05	25
1,2,4-Trichlorobenzene	3.75	3.87	3.73	103	99.5	70.0-160			3.68	25
Hexachloro-1,3-butadiene	3.75	3.53	3.45	94.1	92.0	70.0-151			2.29	25
Naphthalene	3.75	3.82	3.84	102	102	70.0-159			0.522	25
TPH (GC/MS) Low Fraction	203	243	239	120	118	70.0-130			1.66	25
Allyl Chloride	3.75	3.98	3.87	106	103	70.0-130			2.80	25
2-Chlorotoluene	3.75	3.87	3.78	103	101	70.0-130			2.35	25
Methyl Methacrylate	3.75	3.84	3.87	102	103	70.0-130			0.778	25
Tetrahydrofuran	3.75	3.73	3.81	99.5	102	70.0-137			2.12	25
2,2,4-Trimethylpentane	3.75	3.75	3.81	100	102	70.0-130			1.59	25
Vinyl Bromide	3.75	3.85	3.89	103	104	70.0-130			1.03	25
Isopropylbenzene	3.75	3.92	3.85	105	103	70.0-130			1.80	25
1,1-Difluoroethane	3.75	3.79	3.91	101	104	70.0-130			3.12	25
(S) 1,4-Bromofluorobenzene				*97.5*	*100*	*60.0-140*				

Method Blank (MB)

(MB) R3712876-3 10/05/21 09:59

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Tetrachloroethylene	U		0.0814	0.200
1,1,1-Trichloroethane	U		0.0736	0.200
Ethanol	U		0.265	1.25
(S) 1,4-Bromofluorobenzene	*88.0*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3712876-1 10/05/21 08:33 • (LCSD) R3712876-2 10/05/21 09:16

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethanol	3.75	3.56	3.59	94.9	95.7	55.0-148			0.839	25
1,1,1-Trichloroethane	3.75	3.68	3.69	98.1	98.4	70.0-130			0.271	25
Tetrachloroethylene	3.75	3.86	3.87	103	103	70.0-130			0.259	25
(S) 1,4-Bromofluorobenzene				*94.6*	*95.3*	*60.0-140*				

Method Blank (MB)

(MB) R3712539-2 10/05/21 09:48

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Tetrachloroethylene	U		0.0814	0.200
1,1,1-Trichloroethane	U		0.0736	0.200
(S) 1,4-Bromofluorobenzene	*96.1*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3712539-1 10/05/21 09:08 • (LCSD) R3712539-3 10/05/21 11:04

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,1-Trichloroethane	3.75	4.41	4.41	118	118	70.0-130			0.000	25
Tetrachloroethylene	3.75	4.13	4.26	110	114	70.0-130			3.10	25
(S) 1,4-Bromofluorobenzene				*97.8*	*97.4*	*60.0-140*				

Method Blank (MB)

(MB) R3713190-3 10/06/21 09:54

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
1,1,1-Trichloroethane	U		0.0736	0.200
(S) 1,4-Bromofluorobenzene	*97.9*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3713190-1 10/06/21 08:33 • (LCSD) R3713190-2 10/06/21 09:14

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,1-Trichloroethane	3.75	3.67	3.65	97.9	97.3	70.0-130			0.546	25
(S) 1,4-Bromofluorobenzene				*99.8*	*99.6*	*60.0-140*				

Method Blank (MB)

(MB) R3713044-3 10/06/21 10:21

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Helium	U		0.0259	0.100

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3713044-1 10/06/21 10:11 • (LCSD) R3713044-2 10/06/21 10:16

Analyte	Spike Amount %	LCS Result %	LCSD Result %	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Helium	2.50	2.15	2.14	86.0	85.6	70.0-130			0.466	25

Method Blank (MB)

(MB) R3713189-3 10/06/21 13:30

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Helium	U		0.0259	0.100

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3713189-1 10/06/21 13:23 • (LCSD) R3713189-2 10/06/21 13:25

Analyte	Spike Amount %	LCS Result %	LCSD Result %	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Helium	2.50	2.74	2.72	110	109	70.0-130			0.733	25

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Confluence Environmental, Inc.
3308 El Camino Ave, Suite 300 #148
Sacramento, CA 95821
916-760-7641 - main
916-473-8617 - fax
www.confluence-env.com

Chain of Custody

Project Name: Costco San Jose

Job Number: 20221076.001A

TAT: ~~STANDARD~~ 5 DAY 2 DAY 24 HOUR OTHER: ~~Rush, Next Day~~

Lab: Pace Analytical National	Site Address: 5287 Prospect Rd San Jose, CA	Confluence PM: Jason Brown
Address: 12065 Lebanon Pike mt. Juliet, TN	California Global ID No.:	Phone / Fax: 916-760-7641 / 916-473-8617
Contact:	Include EDF w/ Report: Yes No	Confluence Log Code: **CESC**
Phone/ Fax:	Consultant / PM: Paolo Dizon	Report to:
	Phone / Fax:	Invoice to:

	Sample ID	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: Summa	Requested Analysis	Requested Analysis	Requested Analysis	Requested Analysis	Requested Analysis	Requested Analysis: Hr Start	Requested Analysis: Hr Finish	Requested Analysis	Requested Analysis	Requested Analysis	Notes and Comments
																									1412848 Can #
	KVP-10-5'	0707	10/1/21			X		1						1						-28	-5				20194 01
	KVP-10-15	0734				X		1						1						-29	-5				20589 02
	KVP-1-5'	0822				X		1						1						-27	-5				8081 03
	KVP-1-15	0849				X		1						1						-30	-5				12577 04
	KVP-2-5'	0910				X		1						1						-30	-5				12576 05
	KVP-2-15	0931				X		1						1						-27	-5				10619 06
	KVP-3-5'	0959				X		1						1						-30	-5				10745 07
	KVP-3-15	1018				X		1						1						-7	-5				6553 08
	KVP-4-5'	1042				X		1						1						-28	-5				5356 09
	KVP-4-15	1111				X		1						1						-26	-5				5229 10

Sampler's Name: T.Dooley	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Confluence Environmental	CEF	10/1/21	1459	KLEINFELDER	10/1/21	1447
Shipment Date:						
Shipment Method:						

Special Instructions: Email To: vgoiston@kleinfelder.com, LDandridge@kleinfelder.com, Pdizon@kleinfelder.com

9762 4959 0460

Confluence Environmental, Inc.
3308 El Camino Ave, Suite 300 #148
Sacramento, CA 95821
916-760-7641 - main
916-473-8617 - fax
www.confluence-env.com

Chain of Custody

Project Name: Costco San Jose

Job Number: 20221076.001A

TAT: ~~STANDARD~~ 5 DAY 2 DAY 24 HOUR OTHER: ~~Rush, Next Day~~

Lab: Pace Analytical National	Site Address: 5287 Prospect Rd San Jose, CA	Confluence PM: Jason Brown
Address: 12065 Lebanon Pike Mt. Juliet, TN	California Global ID No.:	Phone / Fax: 916-760-7641 / 916-473-8617
Contact:	Include EDF w/ Report: Yes No	Confluence Log Code: **CESC**
Phone/ Fax:	Consultant / PM: Paolo Dizon	Report to:
	Phone / Fax:	Invoice to:

	Sample ID	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: Summa	Requested Analysis	Requested Analysis	Requested Analysis	Requested Analysis	Requested Analysis	Requested Analysis: Hg start	Requested Analysis: Hg Finish	Requested Analysis	Requested Analysis	Requested Analysis	Notes and Comments: 1412878 Can #	
	KVP-5-5	1134	10/1/21			X		1						1						-28	-5				20322	11
	KVP-5-15	1157				X		1						1						-30	-5				20278	12
	KVP-6-5	1223				X		1						1						-30	-5				20621	13
	KVP-6-15	1247				X		1						1						-30	-5				20199	14
	KVP-7-5	1314				X		1						1						-29	-5				20657	15
	KVP-7-15	1342				X		1						1						-29	-5				20333	16
	KVP-8-5	1410				X		1						1						-29	-5				20227	17
	KVP-9-5	1432				X		1						1						-30	-5				20281	18
	~~KVP-9-15~~	~~1442~~																								
	KVP-9-15	1452				X		1						1						-28	-5				20158	19

Sampler's Name: T. Dooley	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Confluence Environmental	CEI	10/1/21	1459	~~Cary~~ KLEINFELDER	10/1/21	1449
Shipment Date:						
Shipment Method:						

Special Instructions: Email To: vagoistan@kleinfelder.com, LDanebridge@kleinfelder.com, pdizon@kleinfelder.com

Tracking Numbers	[redacted]	Temperature
9362 4959 0420		AMB
" " 0450		AMB

10/2-NCF-KLEINICA

R5

Time estimate: oh **Time spent:** oh

Members

HM Hailey Melson (responsible) Brian Ford Jason Romer

Due on *6 October 2021 8:00 AM* for target *Done*

- [ ] Login Clarification needed
- [x] Chain of custody is incomplete
- [ ] Please specify Metals requested
- [ ] Please specify TCLP requested
- [ ] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [ ] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [x] PM initials:_____bjf_____
- [ ] Client Contact:_____

Comments

Hailey Melson *2 October 2021 7:21 PM*

No information filled out on the COC .

Canisters received have 2 different P#s on them. 1 canister has P874397 and the other 6 have P872695.

List of IDs attached.

Matthew Shacklock *4 October 2021 10:19 AM*

Received the remaining samples and the chain. Keep or disregard the NCF?Logged to L1412848.

Brian Ford *5 October 2021 8:34 PM*

keep ncf for documentation.

ANALYTICAL REPORT

October 08, 2021

Kleinfelder - Laguna Hills, CA

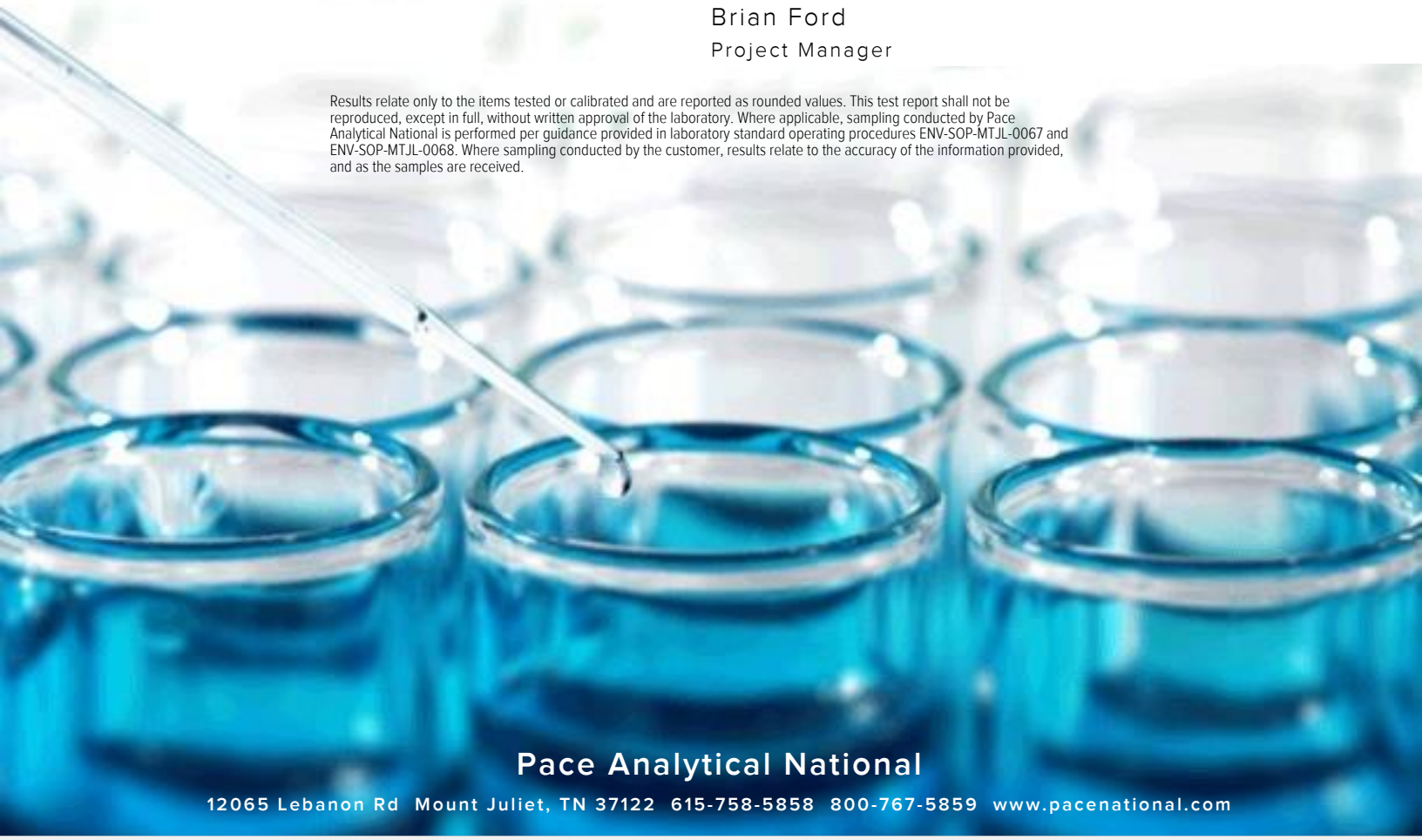
Sample Delivery Group:	L1411848
Samples Received:	09/18/2021
Project Number:	
Description:	Costco Westgate W.

Report To:

Brandon Connelly
24411 Ridge Route Dr
Suite 225
Laguna Hills, CA 92653

Entire Report Reviewed By:

Brian Ford
Project Manager



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Sc: Sample Chain of Custody 9

SAMPLE SUMMARY

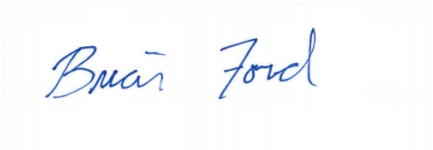
KVP-14-5 L1411848-01 GW

Collected by: Brandon Connelly
Collected date/time: 09/17/21 11:00
Received date/time: 09/18/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 22CCRA2	WG1751034	1	10/04/21 16:41	10/04/21 16:41	APH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1753323	9	10/07/21 16:33	10/08/21 05:54	CCE	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brian Ford
Project Manager

Preparation by Method 22CCRA2

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
STLC Extraction	-			1	10/04/2021 16:41	WG1751034
Final pH	5.46			1	10/04/2021 16:41	WG1751034

Metals (ICP) by Method 6010B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Chromium	ND		90.0	9	10/08/2021 05:54	WG1753323

Method Blank (MB)

(MB) R3713931-1 10/08/21 05:48

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Chromium	U		12.6	90.0

Laboratory Control Sample (LCS)

(LCS) R3713931-2 10/08/21 05:51

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Chromium	1000	1060	106	80.0-120	

L1411848-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1411848-01 10/08/21 05:54 • (MS) R3713931-4 10/08/21 05:59 • (MSD) R3713931-5 10/08/21 06:02

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Chromium	9000	ND	9370	9390	103	104	9	75.0-125			0.189	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:	Billing Information:	Pres Chk
Kleinfelder - Laguna Hills, CA 24411 Ridge Route Dr Suite 225 Laguna Hills, CA 92653	Project Manager- Paolo Dizon 24411 Ridge Route Dr Suite 225 Laguna Hills, CA 92653	
Report to: Project Manager	Email To: @kleinfelder.com	

Chain of Custody Page 1 of 2

Pace Analytical®

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # ~~1405817~~ NV 10/1/21
G052
L1418848

Acctnum: KLEINICA
Template: T194931
Prelogin: P873871
PM: 110 - Brian Ford
PB:
Shipped Via:

Project Description: Costco Westgate W.	City/State Collected: San Jose, CA	Please Circle: (PT) MT CT ET
Phone: 949-727-4466	Client Project #	Lab Project # KLEINICA-SANJOSE
Collected by (print): Brandon Connelly	Site/Facility ID #	P.O. #
Collected by (signature): [signature]	Rush? (Lab MUST Be Notified)	Quote #
Immediately Packed on Ice N ___ Y ✓	___ Same Day X Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day	Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CAM17 Metals 8ozClr-NoPres	DRO/ORO-CA 8ozClr-NoPres	GRO-CA 40ml/NaHSO4/Syr/MeOH	VOCs+OXYs 8260 2ozClr-NoPres	VOCs+OXYs 8260 40ml/NaHSO4/Syr/MeOH	Remarks	Sample # (lab only)
KUP-14-2.5	G	SS	2.5	9-17-21	1035	2						Hold + Freeze	~~-01~~
KUP-14-5		SS	5		1100	5	X	X	X	X	X		~~-02~~ -01
KUP-14-10		SS	10		1105	1						Hold + Freeze	~~-03~~
KUP-14-15		SS	15		1110	1							~~-04~~
KUP-13-2.5			2.5		0845	2							~~-05~~
KUP-13-5			5		0915	5	X	X	X	X	Y		~~-06~~
KUP-13-10			10		0920	1						Hold + Freeze	~~-07~~
KUP-13-15			15		0930	1							~~-08~~
KUP-12-2.5			2.5		1300	5	Y	X	X	X	X		~~-09~~
KUP-12-5			5		1330	1						Hold + Freeze	~~-10~~

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other________

Remarks:

pH ______ Temp ______
Flow ______ Other ______

Samples returned via: ___ UPS ✓ FedEx ___ Courier ______

Tracking # 516377211050

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: (Yes) / No 2 HCL / MeoH TBR	
[signature]	9-17-21	1515			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: AT 10°C 4.4+0=4.4 Bottles Received: 38	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]	Date: 9/18/21 Time: 0945	Hold: Condition: NCF / (OK)

R5

L1405817-02 - KLEINICA - relog

Please relog L1405817-02 for STLC Chromium per client request.

Standard TAT

Time estimate: oh **Time spent:** oh

Members

Brian Ford Jason Romer

ANALYTICAL REPORT

October 11, 2021

Kleinfelder - Laguna Hills, CA

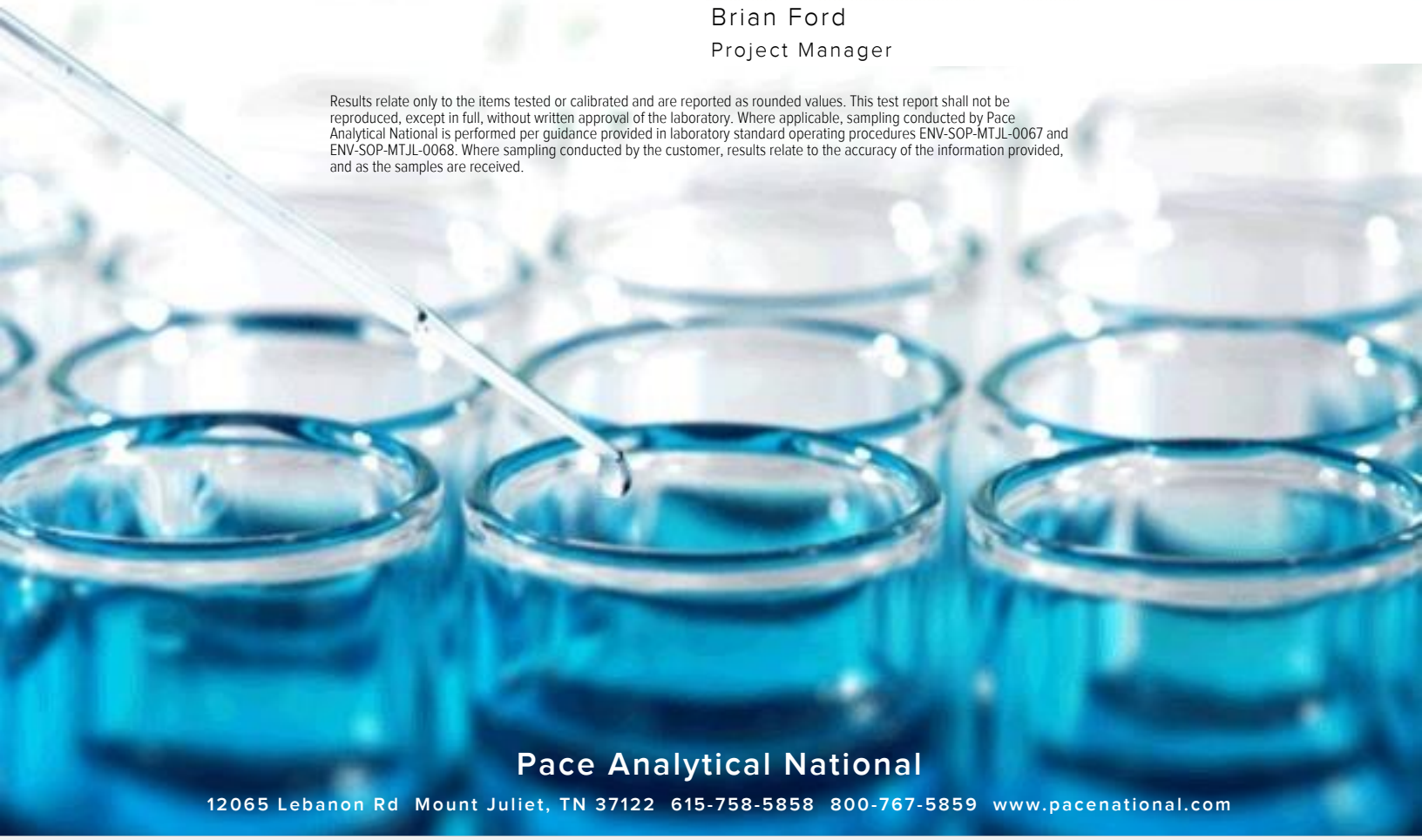
Sample Delivery Group:	L1413516
Samples Received:	09/23/2021
Project Number:	20221076.001A
Description:	Costco Westgate W

Report To:

Brandon Connelly
24411 Ridge Route Dr
Suite 225
Laguna Hills, CA 92653

Entire Report Reviewed By:

Brian Ford
Project Manager



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Al: Accreditations & Locations 9

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KVP-1-5 L1413516-01 GW

Collected by: Brandon Connelly
Collected date/time: 09/22/21 15:00
Received date/time: 09/23/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 22CCRA2	WG1754142	1	10/09/21 08:36	10/09/21 08:36	TDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1754735	9	10/11/21 09:13	10/11/21 13:35	EL	Mt. Juliet, TN

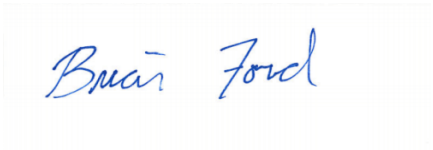
KVP-7-2.5 L1413516-02 GW

Collected by: Brandon Connelly
Collected date/time: 09/22/21 13:00
Received date/time: 09/23/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 22CCRA2	WG1754142	1	10/09/21 08:36	10/09/21 08:36	TDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1754735	9	10/11/21 09:13	10/11/21 13:38	EL	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brian Ford
Project Manager

Preparation by Method 22CCRA2

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
STLC Extraction	-			1	10/09/2021 08:36	WG1754142
Final pH	5.14			1	10/09/2021 08:36	WG1754142

Metals (ICP) by Method 6010B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Chromium	145		90.0	9	10/11/2021 13:35	WG1754735

Preparation by Method 22CCRA2

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
STLC Extraction	-			1	10/09/2021 08:36	WG1754142
Final pH	5.09			1	10/09/2021 08:36	WG1754142

Metals (ICP) by Method 6010B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Chromium	176		90.0	9	10/11/2021 13:38	WG1754735

Method Blank (MB)

(MB) R3714835-1 10/11/21 13:18

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chromium	U		12.6	90.0

Laboratory Control Sample (LCS)

(LCS) R3714835-2 10/11/21 13:21

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chromium	1000	1080	108	80.0-120	

L1412125-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1412125-05 10/11/21 13:24 • (MS) R3714835-4 10/11/21 13:30 • (MSD) R3714835-5 10/11/21 13:32

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	9000	ND	9780	9740	108	108	9	75.0-125			0.394	20

GLOSSARY OF TERMS

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Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

G153

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.	PROJECT NAME	RECEIVING LAB:
	Costco Westgate W.	Pace, TN
L.P. NO. (P.O. NO.)	SAMPLERS: (Signature/Number) Brandon Connelly	INSTRUCTIONS/REMARKS: L1413516 ~~1408112~~

AV 10/5/21

#	DATE MM/DD/YY	SAMPLE I.D. TIME HH-MM-SS	SAMPLE I.D.	MATRIX	NO. OF CON-TAINERS	TYPE OF CON-TAINERS	Metals CAM17	DRO/ORO-CA	GRO-CA	VOCs+OXY 8260	INSTRUCTIONS/REMARKS	
1	9-22-21	1250	KUP-1-2.5	SS	2						Hold ~~01~~	
2	↓	1500	KUP-1-5	↓	6		X	X	X	X	~~02~~	-01
3		1505	KUP-1-10		1						Hold ~~03~~	
4		1510	KUP-1-15		1						~~04~~	
5		1300	KUP-7-2.5		6		X	X	X	X	~~05~~	-02
6		~~1325~~ 9-22-21	KUP-7-5		1						time 1525 Hold ~~06~~	
7		1530	KUP-7-10		1						~~07~~	
8		1535	KUP-7-15		1						~~08~~	
9		1245	KUP-2-2.5		6		X	X	X	X	~~09~~	
10		~~13~~ 9-22-21	KUP-2-5		1						time 1407, Hold ~~10~~	
11		1410	KUP-2-10		1						~~11~~	
12		1415	KUP-2-15	↓	1						~~12~~	
13	↓	0800	TB-02-210922WQ		1							
14												
15												
16												
17												
18												
19												
20												

KC 9-22-21

Sample Receipt Checklist
COC Seal Present/Intact: ✓Y N
COC Signed/Accurate: ✓Y N
Bottles arrive intact: ✓Y N
Correct bottles used: ✓Y N
Sufficient volume sent: ✓Y N
RAD Screen <0.5 mR/hr: ✓Y N
If Applicable
VOA Zero Headspace: ✓Y N
Pres.Correct/Check: Y N

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Instructions/Remarks:	Send Results To:
[signature]	9-22-21 16:30		Track 511744306430	Kleinfelder - Laguna Hills
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	1.9-.1=1.8 A3	24411 Ridge Route Rd Suite 255
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	COCSI	Attn: Laguna Hills, CA Paolo Dizon

White – Sampler Canary – Return Copy To Shipper Pink – Lab Copy

ENV-02 REV 05/08)

CHAIN OF CUSTODY 511744306430

COC № 10634

L1408112 - KLEINICA-SANJOSE - relog

R3/R4/RX/EX

Per client, please relog as follows. Please log as EX due 10/11

L1408112-02 and -05 for STLC Chromium

Time estimate: oh **Time spent:** oh

Members

Brian Ford Jason Romer