Limited Phase II Environmental Site Assessment

Proposed Chick-fil-A Restaurant No. 04698
Huntington SW & 210 FSU
820 West Huntington Drive
Monrovia, California

Prepared For:

Chick-fil-A, Inc.
Irvine, California

March 12, 2021
Project No. 2E-2003011

GILES
ENGINEERING ASSOCIATES, INC.

GILES
ENGINEERING ASSOCIATES, INC.
GEOTECHNICAL, ENVIRONMENTAL & CONSTRUCTION MATERIALS CONSULTANTS

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• Dallas, TX
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• Manassas, VA
• Milwaukee, WI

March 12, 2021

Chick-fil-A, Inc.
15635 Alton Parkway, Suite 350
Irvine, CA 92618

Attention: Ms. Leslie Clay

Subject: Limited Phase II Environmental Site Assessment
Proposed Chick-fil-A Restaurant No. 04698
Huntington SW & 210 FSU
820 West Huntington Drive
Monrovia, California
Giles Project No. 2E-2003011

Dear Ms. Clay:

In accordance with your request and authorization, Giles Engineering Associates, Inc. completed a Limited Phase II Environmental Site Assessment for the above-referenced property. Descriptions of the completed work, findings, conclusions, and recommendations are detailed in the accompanying report.

We appreciate and thank you for the opportunity to be of service on this project. If there are any questions or concerns, or you require additional information regarding the information contained herein, please contact the undersigned.

Sincerely,

GILES ENGINEERING ASSOCIATES, INC.

Jonathan C. Lewis
Senior Project Manager

Michael F. Pisarik
Regional Director

Distribution: Chick-fil-A, Inc.
Attn: Ms. Leslie Clay (email: Leslie.Clay@cfacorp.com)
Ms. Jennifer Daw (email: Jennifer.Daw@cfacorp.com)
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MONROVIA, CALIFORNIA
GILES PROJECT NO. 2E-2003011

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HUNTINGTON SW & 210 FSU
820 W. HUNTINGTON DRIVE
MONROVIA, CALIFORNIA
GILES PROJECT NO. 2E-2003011

EXECUTIVE SUMMARY

Chick-fil-A, Inc. (CFA) retained Giles Engineering Associates, Inc. (Giles) to provide pre-acquisition/redevelopment due diligence environmental consulting services for the property located at 820 West Huntington Drive, in the City of Monrovia, Los Angeles County, California (the "Site"). CFA is considering redeveloping the Site into a new CFA restaurant number 04698. Giles initially completed a draft March 2020 Phase I Environmental Site Assessment (Phase I ESA) for the Site.

The approximately 0.9-acre Site was comprised of multiple parcels. The south portion along Alta Street was developed for residential land uses between 1928 and 1964. The remaining north portion of the Site was vacant between 1928 and 1949 and a commercial building was present near the northwest Site corner during 1952 (possible former Red Barn Launderette that may have included dry cleaning operations). The Site was redeveloped into an automobile dealership (Becherer Buick) including automotive repair between 1961 and at least 1991. A waste oil underground storage tank (UST) was installed at Site during 1956. A waste oil UST and a gasoline UST were removed during 1994. Impacted soil was removed from around the waste oil UST and no significantly impacted soil was identified associated with the gasoline UST. The regulator requested additional soil sampling during 2020 and the results of that sampling are pending. No other records documenting installation or removal of other USTs, in-ground hydraulic lifts, or in-ground oil/water separators associated with the automotive repair facilities at the Site were identified in the Phase I ESA. Former USTs and in-ground hydraulic lifts associated with automotive repair facilities may remain at the Site. The Site was vacant during 1994 before being redeveloped into a Claim Jumper Restaurant during 1994 that has operated at the Site between 1994 and present. The Site was occupied by the operating Claim Jumper Restaurant and associated parking lot and landscaped areas at the time of Giles's assessment.

The following recognized environmental conditions including vapor encroachment conditions were identified ion the Phase I ESA that could affect soil, groundwater, and/or soil gas quality at the Site.

- The use of the Site for automotive repair services.
- The potential dry cleaner operations associated with the former Red Barn Launderette at the Site.
- The potential presence of USTs and in-ground hydraulic lifts at the Site.

Giles recommended and completed a Limited Phase II ESA (Phase II) to evaluate potential soil, groundwater, and soil gas impacts at the Site from the identified recognized environmental conditions. The Phase II ESA was authorized by Ms. Jennifer Daw of CFA.

Giles performed the field activities for the Phase II ESA on April 14, 2020. Seven soil borings were completed to evaluate subsurface conditions. Soil samples collected from borings B-1, B-2, B-3, and VP-1 through VP-4 were described, field screened using a photoionization detector (PID), and laboratory analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and eight Resource Conservation and Recovery Act (RCRA) metals including trivalent and hexavalent chromium. Borings VP-1 through VP-4 were completed as temporary soil gas monitor points. Soil gas samples were collected from VP-1 through VP-4 and laboratory analyzed for VOCs. Given the depth to groundwater at the Site (greater than 250 feet below ground surface [bgs]), Giles did not believe it was necessary to evaluate the presence of groundwater impacts. The likelihood of impacted groundwater (if present) affecting the CFA restaurant employees and customers is very low.

Soil sample laboratory results were compared to their respective current California Environmental Protection Agency Department of Toxic Substance Control (DTSC) soil screening levels (SLs) and San Francisco Bay Reginal Water Quality Control Board (SFB-RWQCB) environmental screening levels (ESLs) for residential and commercial land use, and groundwater protection. The DTSC does not have groundwater protection soil SLs. In the absence of SFB-RWQCB ESLs for groundwater protection, soil results were compared to United States Environmental Protection Agency (USEPA) groundwater protection soil screening levels (SSLs). Soil gas sample laboratory results were compared to their respective current attenuated DTSC ambient air SL and SFB-RWQCB ESLs for residential and commercial land use. DTSC ambient air SLs were divided by the USEPA-recommended attenuation factor of 0.03 to account for attenuation of the compounds as they move through the ground and in to a building. The DTSC SLs and SFB-RWQCB ESLs are used to evaluate the need for further investigation or evaluation and are not cleanup levels.

The following conclusions and recommendations are provided based upon findings of this Phase II ESA.

- Most of the Site not occupied by a building was surfaced with asphalt pavement (parking areas and drives). The ground surface at the Site was generally flat and dipped to the southeast.
- Up to four inches of surficial asphalt or concrete was encountered in each boring except the three borings installed in landscaped areas. Native material below the pavement consisted of gravelly fine sand or sandy fine gravel to depths up to 10 feet bgs, underlain by fine to medium sand the boring termination depths of 6 to 20 feet bgs. Based upon investigation by others, groundwater is greater than 250 feet bgs and believed to flow south or southeast across the Site.
- PID responses up to 11.5 instrument units were measured in unsaturated soil samples from each boring. No unusual soil staining or odors were observed in samples from the borings. The PID responses did not suggest the presence of significantly (above DTSC SLs) impacted soil.
- All borings were properly abandoned in accordance with Los Angeles County Department of Public Health requirements after sampling was completed.
- Low concentrations of VOCs were detected in the soil samples. No VOCs were detected above their respective DTSC SLs or SFB-RWQCB ESLs for residential and commercial land use. Giles does not believe that the detected low concentration of

VOCs is environmentally significant. Therefore, no further environmental investigation with respect to VOCs in soil at the Site is warranted.

- SVOCs were not detected in the soil samples. No further environmental investigation with respect to SVOCs in soil at the Site is warranted.
- RCRA metals (arsenic, barium, cadmium, total chromium, lead, and mercury), hexavalent chromium, and trivalent chromium were detected in the soil samples. Arsenic was detected above its DTSC SL for residential and commercial land uses and USEPA groundwater protection SSL in each sample. Barium, lead, and mercury were detected above their respective USEPA groundwater protection SSL. Cadmium, total chromium, and trivalent chromium were not detected above their respective DTSC SLs or USEPA groundwater protection SSLs. Selenium and silver (RCRA metals) were not detected in the samples.

  Hexavalent chromium initially was detected above its DTSC SL for residential land use and USEPA groundwater protection SSL in one soil sample. That sample was reanalyzed and hexavalent chromium was not detected. The laboratory indicated the initially detected concentration was an error and it should be disregarded. Hexavalent chromium was not detected above its laboratory detection limit in the remaining soil samples. Giles did not identify anthropogenic sources of hexavalent chromium on the Site or surrounding properties in the Phase I ESA.

  The detected arsenic, barium, cadmium, total chromium, lead, and mercury concentrations are within their respective range of background concentrations documented by the DTSC, University of California, and/or United States Geological Survey. No background data is provided for trivalent and hexavalent chromium in the researched references but trivalent chromium was not detected above its applicable comparison criteria. With the possible exceptions of cadmium, chromium, and lead which could be associated with automotive service activities, there were no historical Site uses identified in the Giles Phase I ESA that would provide sources of the detected RCRA metals at the Site. Therefore, no further environmental investigation with respect to RCRA metals or trivalent or hexavalent chromium in soil at the Site is warranted.

- Soil at the Site is impacted with arsenic above its applicable screening levels. Out of an abundance of caution and in keeping with CFA's conservative level of risk management, soil generated from the Site that requires off-site disposal should be disposed at another commercial/industrial property after written approval from the disposal site owner is obtained. The soil should not be disposed at a residential or other sensitive receptor property (e.g., school, daycare, etc.).
- VOCs were detected in soil gas at the Site. Tetrachloroethene (PCE) was detected above its respective generic DTSC attenuated ambient air SL and SFB-RWQCB ESL for residential and commercial land uses. No other VOC was detected above its respective generic DTSC attenuated ambient air SL or SFB-RWQCB ESL.

  The generic DTSC attenuated ambient air SLs and SFB-RWQCB ESLs are based upon a cancer risk of one in a million ($1x10^{-6}$) and a hazard quotient (HQ) of 1.0. Giles evaluated the highest detected PCE concentration using the USEPA's vapor intrusion risk calculator with a cancer risk of $1x10^{-5}$ and a HQ of 1.0 which is appropriate for commercial land uses. The calculation results (cancer risk = $9.4x10^{-8}$,

HQ = 0.0257) demonstrate that the detected PCE concentrations do not pose an unacceptable indoor air cancer risk or health hazard.

Based upon the highest detected soil gas concentration of PCE, air in excavations at the Site would not exceed the California Occupational Safety and Health Administration Permissible Exposure Level for PCE. In addition, outdoor air at the Site would not be impacted above residential DTSC SLs and Giles believes the Site is suitable for commercial and/or recreational/park uses.

The risk of soil gas migration into new structures at the Site is considered to be low. Vapor intrusion mitigation measures are not typically taken at sites with soil gas VOC concentrations such as those found at the Site. Giles recommends that CFA complete a business risk-tolerance evaluation to determine the need for vapor mitigation measures at the Site.

- The former building(s) at the Site likely were used for automobile repair. It is possible that in-ground hydraulic lifts and/or USTs are present at the Site. Giles recommends that a magnetometer survey be performed to investigate for the presence of hydraulic lifts and USTs after the existing building at the Site is removed.
- Giles recommends that CFA seek legal counsel regarding potential indemnification for financial liabilities associated with the impacted media identified on the Site.

1. INTRODUCTION

Giles Engineering Associates, Inc. (Giles) performed a Limited Phase II Environmental Site Assessment (Phase II ESA) of a property located at 820 West Huntington Drive in the City of Monrovia, Los Angeles County, California (the "Site"). Important information regarding this geoenvironmental report is included in Appendix A.

The purpose of the Phase II ESA was to evaluate subsurface materials and the presence of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and eight Resource Conservation and Recovery Act (RCRA) metals including trivalent and hexavalent chromium in soil and VOCs in soil gas. The field activities were performed in general accordance with applicable state of California and American Society for Testing and Materials standards and guidance.

2. BACKGROUND INFORMATION

Chick-fil-A, Inc. (CFA) is considering redeveloping the Site into a new CFA restaurant number 4698. CFA retained Giles to provide pre-acquisition due diligence environmental consulting services for the Site. Giles initially completed a draft Phase I environmental site assessment (Phase I ESA) for the Site (Giles, 2020a).

The following recognized environmental conditions including vapor encroachment conditions were identified in the Phase I ESA that could affect soil, groundwater, and/or soil gas quality at the Site.

- The use of the Site for automotive repair services.
- The potential dry cleaner operations associated with the former Red Barn Launderette at the Site.
- The potential presence of USTs and in-ground hydraulic lifts at the Site.

Based on the Phase I ESA findings, Giles recommended and completed a Phase II ESA in accordance with CFA requirements to assess the presence of impacted soil and soil gas at the Site from the identified recognized environmental conditions. The Phase II ESA was authorized by Ms. Jennifer Daw of CFA and completed in general conformance with Giles's proposal dated March 30, 2020 (Giles, 2020b).

3. SCOPE OF SERVICES

The scope of services completed for the Phase II ESA included the following tasks.

- Obtained a permit to install three soil borings from the Los Angeles County Department of Public Health (LADPH).
- Prepared and implemented a site-specific health and safety plan in accordance with 29 CFR 1910 for all field activities performed at the Site.
- Marked boring locations. Arranged for public utilities locator and retained private utility locator to clear boring locations.

- Completed three hollow-stem auger (HSA) borings to 20 feet below ground surface (bgs) to obtain soil samples.
- Completed four hand-augered soil borings to six feet bgs to obtain soil and soil gas samples. Installed a temporary soil gas monitoring point in each boring to facilitate soil gas sample collection. Giles collected one soil gas sample from each soil gas point and submitted the samples to a California-accredited laboratory for volatile organic compounds (VOCs) analysis.
- Described and field screened soil encountered in the borings for organic vapors using a photoionization detector (PID).
- Collected and submitted one soil sample from each boring for laboratory analyses by a California-accredited laboratory. The samples were analyzed for VOCs, SVOCs, and eight Resource Conservation and Recovery Act (RCRA) metals including trivalent and hexavalent chromium.
- Drummed soil generated from the borings and arranged for their proper disposal.
- Properly plugged the HSA and hand-augered borings in accordance with state and local requirements.
- Verified, reduced, and evaluated the data, and prepared this Phase II ESA report which summarizes the tasks performed, the field and laboratory results, and provides recommendations.
- Project management and peer review.

4. SITE DESCRIPTION

4.1. Setting and Location

The approximate 0.9-acre Site was located in a commercial area along West Huntington Drive within the city of Monrovia. Most of the Site not occupied by a building was surfaced with asphalt pavement parking areas and drives. The Site was served by a municipal public water supply, and there were no potable wells at the Site. The ground surface at the Site was generally flat with a gentle slope to the southeast. The Site location and local topography are shown on Figure 1.

4.2. Historical and Current Site Use

The Site was comprised of multiple tax parcels. The south portion of the Site along Alta Street was developed for residential land uses between 1928 and 1964. The remaining north portion of the Site was vacant between 1928 and 1949 and a commercial building was present off-site near the northwest Site corner during 1952 (possible former Red Barn Launderette that may have included dry cleaning operations). The Site was redeveloped into an automobile dealership (Becherer Buick) including automotive repair between 1961 and at least 1991 and included two buildings. A waste oil UST was installed at the Site during 1956. A waste oil UST and a gasoline UST subsequently were removed from the Site during 1994 (Athanor, 1994). Impacted soil was removed from around the waste oil UST and no significantly impacted soil was identified associated with the gasoline UST. The UST case was transferred to the Los Angeles

Regional Water Quality Control Board (LA-RWQCB) on September 23, 2020 (LADPW, 2020). The LA-RWQCB subsequently requested sampling/analyses of soil from both former UST locations (LA-RWQCB, 2020). The results of this sampling are pending. No other records documenting installation or removal of other USTs or in-ground hydraulic lifts associated with the automotive repair facilities at the Site were identified in the Phase I ESA. Former USTs and/or in-ground hydraulic lifts associated with automotive repair facilities may remain at the Site. The Site was vacant during 1994 before being redeveloped into a Claim Jumper Restaurant during 1994 that has operated at the Site between 1994 and present. The Site was occupied by the operating Claim Jumper Restaurant and associated parking lot and landscaped areas at the time of Giles's assessment.

5. INVESTIGATION PROCEDURES

Giles used several methods to investigate for the presence of impacts to soil and soil gas at the Site. Given the depth to groundwater at the Site (greater than 250 feet bgs), Giles did not believe it was necessary to evaluate the presence of groundwater impacts. The likelihood of impacted groundwater (if present) affecting the CFA restaurant employees and customers is very low. The methods used to investigate soil and soil gas quality are described below.

5.1. Soil Sampling, Screening, and Analyses

Giles retained Cascade Drilling (Cascade) to complete borings B-1, B-2 and B-3 (see Figure 2) using 8.25-inch diameter hollow-stem augering and sampling methods. Continuous soil samples were collected as the auger was advanced in each boring. Cascade obtained soil from borings VP-1 through VP-4 (see Figure 2) using a four-inch diameter hand auger. Soil samples were collected from regular depth intervals from each boring to total borehole depth.

A Giles geologist maintained a log of each borehole, field screened the soil, and collected samples for laboratory analysis. No lubricants or solvents were used on any downhole boring or sampling equipment. A portion of each two-foot sampled interval was immediately transferred into a one-quart resealable plastic bag stored on ice in a cooler where it was maintained chilled for possible laboratory analysis.

A duplicate portion of each sampled interval was subjected to headspace analysis for VOCs using a PID in the field. The headspace analysis sample was sealed in a one-quart plastic bag. Care was taken to maintain a relatively constant soil volume-to-headspace volume ratio for all samples. The sealed headspace sample was agitated to break up the soil before being left in a warm environment for at least 20 minutes to allow volatilization to occur. The PID probe was inserted into the bag and the highest stable response occurring in 10 to 20 seconds was recorded. A Rae Systems MiniRae Model 2000 organic vapor meter equipped with a 10.6 electron-volt lamp was used to field screen the samples. The PID calibration was checked before use using isobutylene (benzene equivalent) calibration gas.

Each sampled interval was visually described in general conformance with ASTM D-2488 in the field. Logs were prepared presenting information on color, soil type, grain size distribution, odor, moisture content, and PID response. The hand-augered boreholes were backfilled using granular bentonite and the HSA borings were backfilled with cement-bentonite grout in accordance with LADPH and California requirements after sampling was completed.

One apparently "most-impacted" soil sample from each boring, based on PID response, appearance, and odor, was selected for laboratory analysis to evaluate potential chemical concentration. If no apparently impacted samples were encountered, various depth intervals from the borings were laboratory analyzed. Samples selected for laboratory analyses were transferred from the initially-collected sample portion into labeled laboratory prepared and preserved containers. Soil samples were packed with ice in a cooler and shipped via FedEx under chain-of-custody protocol to document sample number, date/time collected, requested analyses, and handling to Eurofins/TestAmerica Laboratories, Inc. (Test America) for analyses. The samples were analyzed for VOCs using SW846 Method 8260; SVOCs using SW846 Method 8270; and eight RCRA metals including trivalent and hexavalent chromium using applicable SW846 Method 6010, 7196, or 7471.

5.2. Soil Gas Point Construction, Sampling, and Analysis

Cascade installed a temporary soil gas point in each of borings VP-1 through VP-4. The soil gas points were constructed using a one-inch long filter joined to the down-hole end of an eight-foot length of ¼-inch diameter Teflon® tubing. The down-hole end of the tubing was placed at approximately 5.5 feet below ground surface. Filter sand was used to fill the boring to five feet bgs, and hydrated granular bentonite was used to fill the remainder of the borings and formed the soil gas point seal.

Soil gas samples were collected from each temporary soil gas point. Each sample was collected by joining the soil gas point tubing to an evacuated six-liter Summa canister. Each sample was collected in the Summa canister using a 200-milliliter per minute flow regulator for a period of approximately 30 minutes. The samples were shipped via FedEx under chain-of-custody protocol to document sample number, date/time collected, requested analyses, and handling to Test America for analyses. The soil gas samples were laboratory analyzed for VOCs using EPA Method TO-15.

5.3. Investigative Waste Management

Soil generated from the borings were placed in labeled drums and staged on site. Giles arranged for the drummed soil to be removed and properly transported and disposed at an off-site licensed treatment/disposal facility. A manifest documenting the drummed soil transportation to Soil Safe, Adelanto, California is provided in Appendix B.

6. INVESTIGATION RESULTS AND DISCUSSION

The field activities were performed on April 14, 2020. The Phase II ESA results are presented and discussed below.

6.1. Subsurface Soil and Hydrogeologic Conditions

Borings B-1, B-2, and B-3 each were advanced to 20 feet bgs. Borings VP-1 through VP-4 were advanced to six feet bgs. The soil borings provided information about subsurface materials at the Site.

Up to four inches of surficial asphalt or concrete pavement was encountered in each boring except the three borings installed in landscaped areas. Native material below the pavement consisted of gravelly fine sand or sandy fine gravel to depths up to 10 feet bgs, underlain by fine to medium sand the boring termination depths of 6 and 20 feet bgs. Soil boring permits and soil descriptions are provided on borehole logs provided in Appendix C.

Based upon nearby off-site investigations by others, groundwater is believed be greater than 250 feet bgs and flow south to southeast across the Site.

6.2. Soil Sample Field Screening and Laboratory Analytical Results

The soil sample field screening and laboratory results are provided and discussed below. Soil sample laboratory results were compared to their respective current California Environmental Protection Agency Department of Toxic Substance Control (DTSC) soil screening levels (SLs) (DTSC, 2020) and San Francisco Bay-Regional Water Quality Control Board (SFB-RWQCB) environmental screening level (ESL) for residential and commercial land use sites (SFB-RWQCB, 2019). The DTSC does not have groundwater protection soil SLs. In the absence of DTSC SLs and/or SFB-RWQCB ESLs for groundwater protection, soil results were compared to United States Environmental Protection Agency (USEPA) groundwater protection soil screening levels (SSLs) (USEPA, 2020). The laboratory report and chain-of-custody documentation are provided in Appendix D.

6.2.1. Field Screening

PID responses up to 11.5 instrument units (IU) were measured in unsaturated soil samples from each boring. No unusual soil staining or odors were observed in samples from the borings. PID field screening results are provided on the borehole logs in Appendix B.

6.2.2. VOCs and SVOCs Laboratory Results

Low concentrations of VOCs were detected in the soil samples. No VOCs were detected above their respective DTSC SLs or SFB-RWQCB ESLs for residential and commercial land use. No VOCs were detected above their respective SFB-RWQCB ESLs for groundwater protection.

SVOCs were not detected in the soil samples.

6.2.3. RCRA Metals Laboratory Results

RCRA metals (arsenic, barium, cadmium, total chromium, lead, and mercury), and trivalent and hexavalent chromium were detected in the soil samples. Arsenic was

detected above its DTSC SL for residential and commercial land uses and USEPA groundwater protection SSL in each sample. Barium, lead, and mercury were detected above their respective USEPA groundwater protection SSLs. Cadmium, total chromium, and trivalent chromium were not detected above their respective DTSC SLs or USEPA groundwater SSLs. Selenium and silver (RCRA metals) were not detected in the samples.

Hexavalent chromium initially was detected above its DTSC SL for residential land uses and USEPA groundwater protection SSL in one soil sample. That sample was reanalyzed for hexavalent chromium and hexavalent chromium was not detected in the soil sample. The laboratory indicated the initially detected concentration was an error and it should be disregarded. Hexavalent chromium was not reported above laboratory detection limits in the remaining soil samples.

The detected arsenic, barium, cadmium, total chromium, lead, and mercury concentrations are within their respective range of background concentrations documented by the DTSC (DTSC, 2008), University of California (UC, 1996), and/or United States Geological Survey (USGS, 2008). No background data is provided for trivalent chromium in the researched references but trivalent chromium was not detected above its applicable comparison criteria. With the possible exceptions of cadmium, chromium, and lead which could be associated with automotive service activities, there were no historical Site uses identified in the Giles Phase I ESA that would provide sources of the detected RCRA metals.

6.3. Soil Gas Laboratory Results

The soil gas sample laboratory results are discussed below and the analytical results are summarized and compared to their respective current attenuated DTSC ambient air SL and SFB-RWQCB ESL for residential and commercial land use sites (DTSC, 2019) on Table 2. Since the ambient air SLs can represent indoor air concentrations and soil gas samples were collected, the ambient air SLs were divided by a DTSC/USEPA-recommended attenuation factor of 0.03 to account for the attenuation of the compound as it travels through the ground and into a building. The screening levels generally are used to evaluate the need for further investigation or evaluation. The laboratory report and chain-of-custody documentation are provided in Appendix E.

VOCs were detected in soil gas at the Site. PCE was detected above its respective DTSC attenuated ambient air SL and SFB-RWQCB ESL for residential and commercial land uses that are based upon $1x10^{-5}$ cancer risk and a hazard quotient (HQ) of 1.0. No other VOC was detected above it respective attenuated ambient air SL or SFB-RWQCB ESL.

Giles used an USEPA Vapor Intrusion Screening Level (VISL) model (USEPA, 2021), a $1x10^{-5}$ target cancer risk that is appropriate for commercial land use, and the highest detected PCE concentration (150 microgram per cubic meter [$\mu g/m^3$]) to calculate the resultant cancer risk and HQ. The VISL model results showed an acceptable cancer risk of $9.4x10^{-8}$ and HQ of 0.0257 for commercial land use.

Based upon the highest detected soil gas concentration of PCE, PCE concentrations in air in excavations at the Site would not exceed the California Occupational Safety and Health Administration PCE Permissible Exposure Level of 170,000 µg/m^3 (Cal/OSHA, 2021). In addition, outdoor air at the Site would not be impacted above residential or commercial DTSC SLs or SFB-RWQCB ESLs and Giles believes the Site is suitable for commercial and/or recreational/park development.

7. CONCLUSIONS AND RECOMMENDATIONS

Giles completed a Phase II ESA to assess the presence of VOCs, SVOCs, and eight RCRA metals, including trivalent and hexavalent chromium in soil and VOCs in soil gas at the Site. Seven soil borings (B-1, B-2, and B-3 and VP-1 through VP-4) were sampled to assess subsurface soils and evaluate soil quality. Borings VP-1 through VP-4 were completed as temporary soil gas monitoring points and sampled to evaluate soil gas quality.

Soil samples were described, field screened using a PID, and one sample from each boring was laboratory analyzed for VOCs, SVOCs, and eight RCRA metals including trivalent and hexavalent chromium. Soil gas samples were laboratory analyzed for VOCs.

The following conclusions and recommendations are provided based upon findings of this Phase II ESA.

- Most of the Site not occupied by a building was surfaced with asphalt pavement (parking areas and drives). The ground surface at the Site was generally flat and dipped to the southeast.
- Up to four inches of surficial asphalt or concrete was encountered in each boring except the three borings installed in landscaped areas. Native material below the pavement consisted of gravelly fine sand or sandy fine gravel to depths up to 10 feet bgs, underlain by fine to medium sand the boring termination depths of 6 to 20 feet bgs. Based upon investigation by others, groundwater is greater than 250 feet bgs and believed to flow south or southeast across the Site.
- PID responses up to 11.5 instrument units were measured in unsaturated soil samples from each boring. No unusual soil staining or odors were observed in samples from the borings. The PID responses did not suggest the presence of significantly (above DTSC SLs) impacted soil.
- All borings were properly abandoned in accordance with Los Angeles County Department of Public Health requirements after sampling was completed.
- Low concentrations of VOCs were detected in the soil samples. No VOCs were detected above their respective DTSC SLs or SFB-RWQCB ESLs for residential and commercial land use. Giles does not believe that the detected low concentration of VOCs is environmentally significant. Therefore, no further environmental investigation with respect to VOCs in soil at the Site is warranted.

- SVOCs were not detected in the soil samples. No further environmental investigation with respect to SVOCs in soil at the Site is warranted.

- RCRA metals (arsenic, barium, cadmium, total chromium, lead, and mercury), hexavalent chromium, and trivalent chromium were detected in the soil samples. Arsenic was detected above its DTSC SL for residential and commercial land uses and USEPA groundwater protection SSL in each sample. Barium, lead, and mercury were detected above their respective USEPA groundwater protection SSL. Cadmium, total chromium, and trivalent chromium were not detected above their respective DTSC SLs or USEPA groundwater protection SSLs. Selenium and silver (RCRA metals) were not detected in the samples.

  Hexavalent chromium initially was detected above its DTSC SL for residential land use and USEPA groundwater protection SSL in one soil sample. That sample was reanalyzed and hexavalent chromium was not detected. The laboratory indicated the initially detected concentration was an error and it should be disregarded. Hexavalent chromium was not detected above its laboratory detection limit in the remaining soil samples. Giles did not identify anthropogenic sources of hexavalent chromium on the Site or surrounding properties in the Giles Phase I ESA.

  The detected arsenic, barium, cadmium, total chromium, lead, and mercury concentrations are within their respective range of background concentrations documented by the DTSC, University of California, and/or United States Geological Survey. No background data is provided for trivalent and hexavalent chromium in the researched references but trivalent chromium was not detected above its applicable comparison criteria. With the possible exceptions of cadmium, chromium, and lead which could be associated with automotive service activities, there were no historical Site uses identified in the Giles Phase I ESA that would provide sources of the detected RCRA metals at the Site. Therefore, no further environmental investigation with respect to RCRA metals or trivalent or hexavalent chromium in soil at the Site is warranted.

- Soil at the Site is impacted with arsenic above its applicable screening levels. Out of an abundance of caution and in keeping with CFA's conservative level of risk management, soil generated from the Site that requires off-site disposal should be disposed at another commercial/industrial property after written approval from the disposal site owner is obtained. The soil should not be disposed at a residential or other sensitive receptor property (e.g., school, daycare, etc.).

- VOCs were detected in soil gas at the Site. Tetrachloroethene (PCE) was detected above its respective generic DTSC attenuated ambient air SL and SFB-RWQCB ESL for residential and commercial land uses. No other VOC was detected above its respective generic DTSC attenuated ambient air SL or SFB-RWQCB ESL.

  The generic DTSC attenuated ambient air SLs and SFB-RWQCB ESLs are based upon a cancer risk of one in a million ($1x10^{-6}$) and a hazard quotient (HQ) of 1.0. Giles evaluated the highest detected PCE concentration using the USEPA's vapor intrusion risk calculator with a cancer risk of $1x10^{-5}$ and a HQ of 1.0 which is appropriate for commercial land uses. The calculation results (cancer risk = $9.4x10^{-8}$,

HQ = 0.0257) showed that the detected PCE concentrations do not pose an unacceptable indoor air cancer risk or health hazard.

Based upon the highest detected soil gas concentration of PCE, air in excavations at the Site would not exceed the California Occupational Safety and Health Administration Permissible Exposure Level for PCE. In addition, outdoor air at the Site would not be impacted above residential DTSC SLs and Giles believes the Site is suitable for commercial and/or recreational/park uses.

The risk of soil gas migration into new structures at the Site is considered to be low. Vapor intrusion mitigation measures are not typically taken at sites with soil gas VOC concentrations such as those found at the Site. Giles recommends that CFA complete a business risk-tolerance evaluation to determine the need for vapor mitigation measures at the Site.

- The former building(s) at the Site likely were used for automobile repair. It is possible that in-ground hydraulic lifts and/or USTs are present at the Site. Giles recommends that a magnetometer survey be performed to investigate for the presence of hydraulic lifts and USTs after the existing building at the Site is removed.
- Giles recommends that CFA seek legal counsel regarding potential indemnification for financial liabilities associated with the impacted media identified on the Site.

8. REFERENCES

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California Occupational Safety and Health Administration, Permissible Exposure Limits, obtained from California Department of Industrial Relations, Title 8 Regulations, Subchapter 7, Group 16, Article 107, March 11, 2021.

Giles Engineering Associates, Inc., *Phase I Environmental Site Assessment, Proposed Chick-fil-A Restaurant #4698, Huntington SW & 210 FSU, 820 West Huntington Drive, Monrovia, California*, Giles Project No. 2E-2003005, March 25, 2020a.

Giles Engineering Associates, Inc., *Proposed Limited Phase II Environmental Site Assessment, Proposed Chick-fil-A Restaurant #4698, Huntington SW & 210 FSU, 820 West Huntington Drive, Monrovia, California*, Giles Proposal No. 2EP-2003023, March 30, 2020b.

Los Angeles County Department of Public Works (LA-DPW), letter to Mr. Richard Hale (site owner), September 14, 2020.

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San Francisco Bay Regional Water Quality Control Board, *Environmental Screening Levels* obtained from: https://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.html, January 2019 (Rev. 2).

United States Environmental Protection Agency (USEPA) groundwater protection soil screening levels obtained from: https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables, updated November 2020.

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United States Geological Survey (USGS), National Geochemical Survey, Open-File Report 2004-1001, Version 5.0, Los Angeles County, California, September 2008.

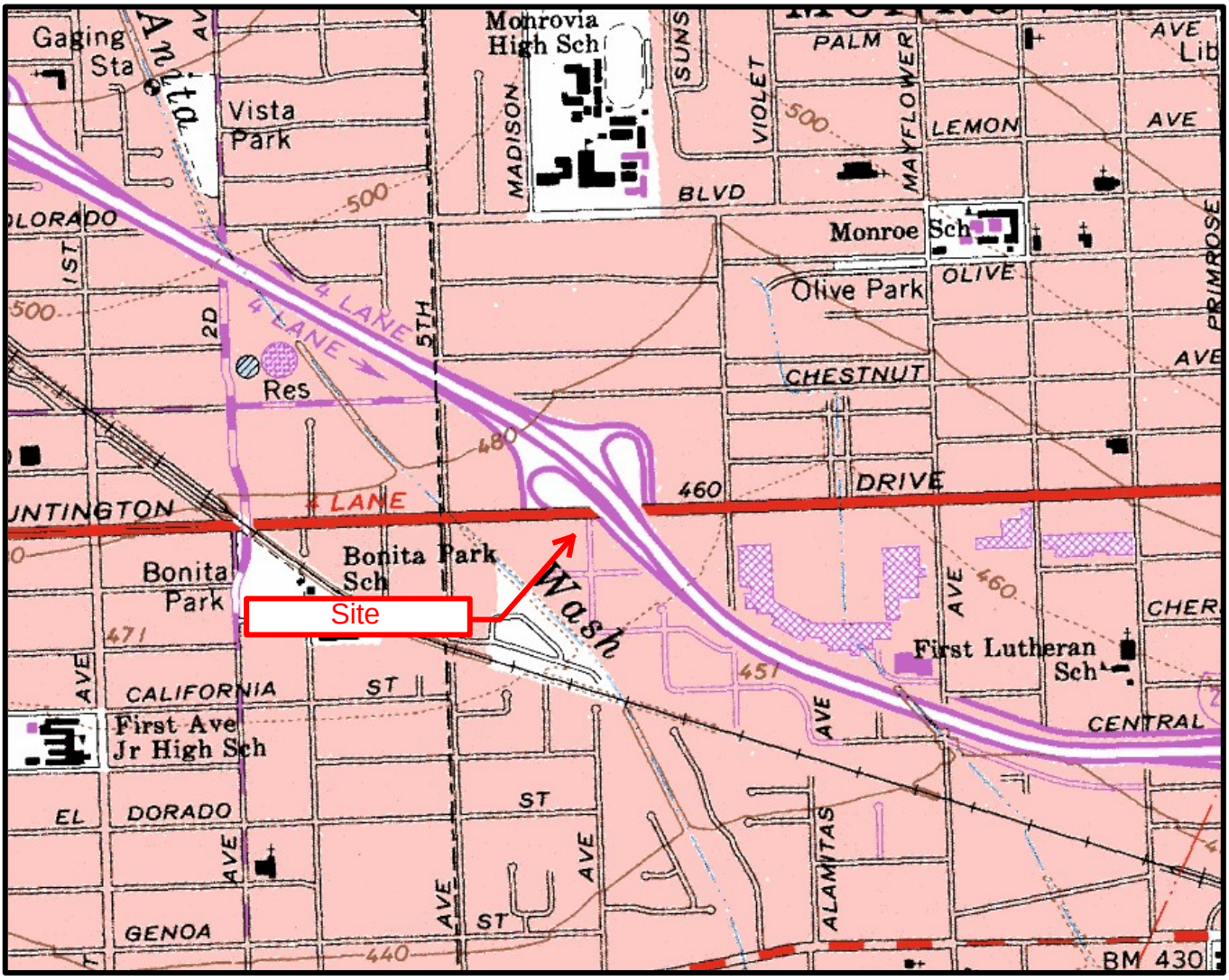
University of California (UC), Kerney Foundation Special Report, *Background Concentrations of Trace and Major Elements in California Soils*, March 1996.

9. GENERAL COMMENTS

This report is an instrument of service prepared for the exclusive use of CFA, and may not be reproduced or distributed without written authorization from Giles and CFA. The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, expressed or implied, is made. These services were performed consistent with Giles' agreement with CFA. This report is solely for the use and information of CFA or as otherwise noted. Any unauthorized use of this report is strictly prohibited and we assume no liability for any such use.

This report was prepared to aid in the evaluation of a site located at 820 West Huntington Drive, Monrovia, Los Angeles County, California, with regard to the potential for hazardous substance and/or petroleum hydrocarbon presence at the time of this study. The boring logs and related information provided in the appendix depict subsurface conditions only at specific locations drilled and at the particular times designated on the logs. Soil and groundwater conditions at other locations may differ from conditions occurring at these boring locations. In addition, the passage of time may result in a change of soil and groundwater conditions at the boring locations.

FIGURES



Source: USGS *Mt. Wilson, California* 7.5-Minute Series (topographic) Quadrangle Map (1966, photorevised 1988).

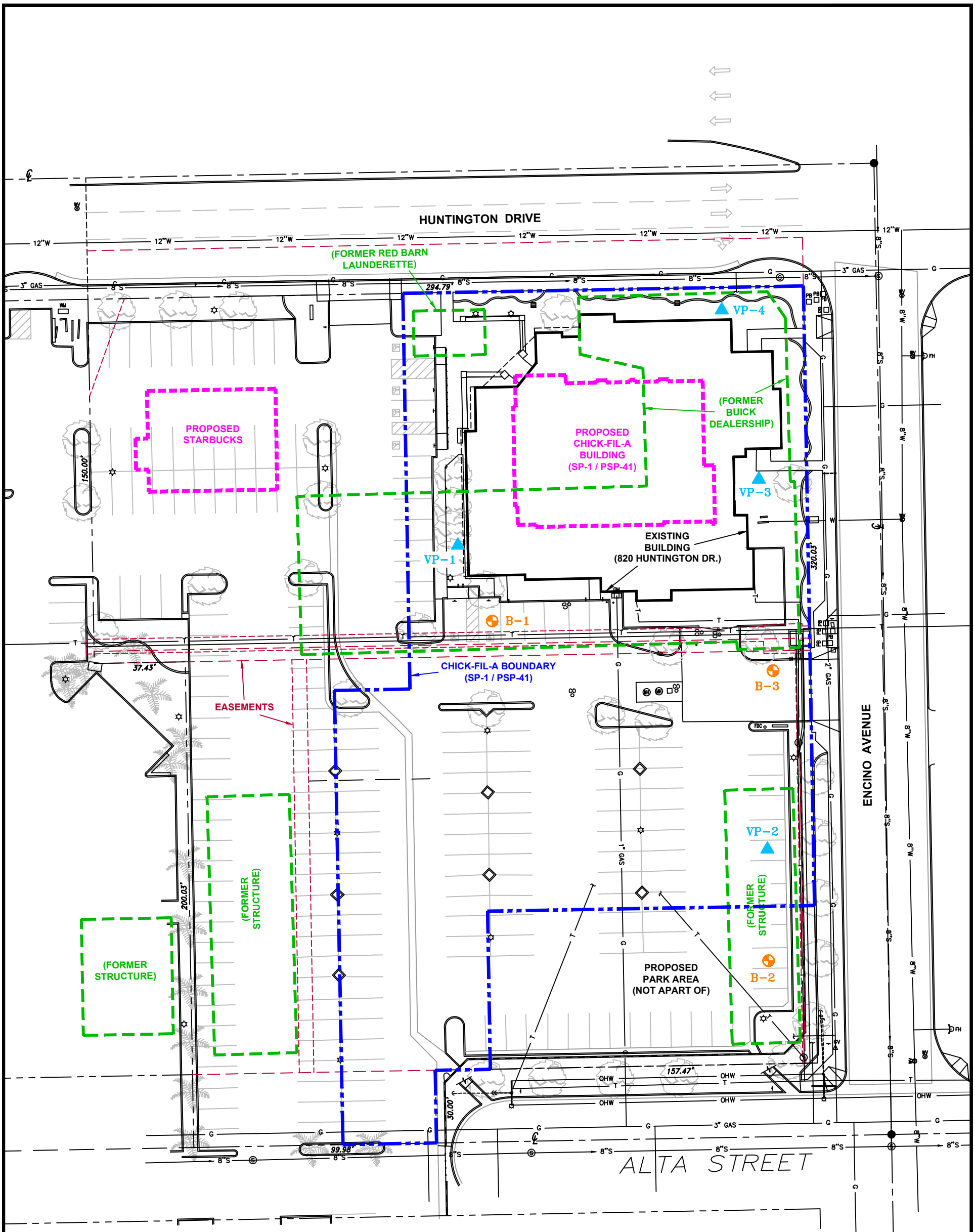
Scale: 1:24,000
Contour Interval: 40 Feet

N
W E
S

FIGURE 1
SITE LOCATION MAP

Proposed Chick-fil-A Restaurant No. 04698
Huntington SW & 210 FSU
820 West Huntington Drive
Monrovia, California
Project No. 2E-2003011

GILES
ENGINEERING ASSOCIATES, INC.



GILES ENGINEERING ASSOCIATES, INC.
1965 N. MAIN STREET
ORANGE, CA 92865 (714)279-0817
www.gilesengr.com

FIGURE 2
BORING LOCATION PLAN
PROPOSED CHICK-FIL-A RESTAURANT NO. 04698
HUNTINGTON SW & 210 FSU
820 W. HUNTINGTON DRIVE
MONROVIA, CALIFORNIA

DESIGNED	DRAWN	SCALE	DATE	REVISED
KLW/CRK	JGid	approx. 1"=40'	04-29-20	03-10-21
PROJECT NO.: 2E-2003011			CAD No. 2E2003011A2	

N
W E
S

0 20' 40'

APPROXIMATE SCALE

LEGEND:

- VP-1 — SOIL GAS POINT
- B-1 — SOIL BORING
- SITE BOUNDARY

NOTES:

1.) EXISTING FEATURES DEVELOPED FROM THE "ALTA/NSPS LAND TITLE SURVEY", DATED 3-19-2020, PREPARED BY PREPARED BY JOSEPH C. TRUXAW & ASSOCIATES, INC.

2.) PROPOSED FEATURES ARE APPROXIMATE BASED ON THE "PRELIMINARY SITE PLAN" (SHEET SP-1 / PSP 41), REV. 12-23-2020, PREPARED BY CRHO ARCHITECTS.

3.) FORMER STRUCTURES ARE APPROXIMATE BASED ON A 1980 AERIAL.

TABLES

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY

Proposed Chick-fil-A Restaurant 4698
Huntington SW & 210 FSU
820 West Huntington Drive
Monrovia, California
Giles Project No. 2E-2003011

Sample Location	VP-1	VP-2	VP-3	VP-4	B-1	B-2	B-3	DTSC Soil Screening Level (mg/kg)		San Francisco Bay Regional Water Quality Control Board ESL (mg/kg)				Reported Background Concentration (mg/kg)
Sample Date	4/14/20									Direct Shallow Exposure				
Sample Depth (feet below grade)	2-4	4-6	2-4	0-2	8-10	18-20	11-13	Land Use		Land Use		Construction Worker	Groundwater Protection (drinking water)	
PID Response (instrument units)	7.5	0	6.1	11.5	0	0	0	Residential	Commercial	Residential	Commercial			
Detected Volatile Organic Compound (mg/kg)														
Acetone	<0.016	<0.014	<0.012	<0.013	**0.011 J**	<0.012	**0.014 J**	61,000	670,000	61,000	670,000	270,000	0.92	Not Applicable
Ethylbenzene	<0.00074	<0.00065	<0.00059	**0.0019 J**	<0.00053	<0.00054	<0.00054	5.8	25	5.9	26	540	0.43	
m&p Xylene	<0.0016	<0.0014	<0.0012	**0.0061**	<0.0011	<0.0012	<0.0011	550	2400	580	2500	2400	2.1	
o-Xylene	<0.0012	<0.0011	<0.00096	**0.0021 J**	<0.00087	<0.00089	<0.00088	650	2800	580	2500	2400	2.1	
Xylenes, Total	<0.0023	<0.0020	<0.0018	**0.0082 J**	<0.0017	<0.0017	<0.0017	580	2500	580	2500	2400	2.1	
No Semi-Volatile Organic Compound Detected (milligram per kilogram)														
Detected Metal (mg/kg)														
Arsenic	4.2	1.9	2.3	5.0	3.0	2.1	1.5	0.11	0.36	0.067	0.31	2.0	0.29^^	0.6-12^, 0.8-24* & 0.312-90.811**
Barium	45	51	52	77	92	49	38	15,000	220,000	15,000	222,000	3000	82^^	133-1400*
Cadmium	0.093 J	<0.085	<0.089	**0.24 J**	<0.090	<0.086	<0.084	71	780	910	4000	110	0.38^^	0.05-1.7*
Chromium	18	12	11	14	18	10	9.9	NS	NS	NS	NS	NS	180,000^^	23-1579*
Lead	5.6	2.8	7.7	15	3.9	2.5	2.2	400	800	82	380	2700	14^^	12.4-97.1* & 2.205-634.625**
Mercury	0.016 J	0.033	0.016	0.035	0.034	0.025	0.016	1.0	4.4	13	190	44	0.033^^	0.1-0.9* & 0.010-1.849**
Chromium, Hexavalent	<0.38	<0.37	<0.38	<0.43	<0.40	5.8 / <0.37	<0.36	0.3	6.2	0.31	6.2	2.8	0.00067^^	ND
Chromium, Trivalent	18	12	11	14	18	4.4 J	9.9	36,000	180,000	120,000	1,800,000	530,000	40,000,000^^	ND

NOTES:

DTSC: Califonial Environmental Protection Agency Department of Toxic Substances Control
mg/kg: milligram per kilogram
PID: photoionization detector
J: Estimated value. Analyte detected between the laboratory method reporting and detection limits.
<X: Analyte not detected above its laboratory method detection limit of X for Giles results or laboratory method reporting limit of X for Salem Engineering results.
XXX / XXX: Sample reanalyzed. Both results provided.
XXX: Analyte detected above its laboratory method detection or reporting limit
XXX: Analyte detected above its applicable screening level for groundwater protection.
(XXX): Analyte detected above the lower of its carcinogenic or noncarcinogenic health effect DTSC screening level for residential land uses and/or applicable groundwater protection screening level.
XXX: Analyte detected above the lower of its carcinogenic or noncarcinogenic health effect DTSC screening level and SFB-RWQCB ESLfor residential and commercial land uses, and applicable groundwater protection screening level.
^^: No **SFB-RWQCB** groundwater protection value. United States Environmental Protection Agency (USEPA) soil screening level for groundwater protection listed.
^ Source: "Southern California Regional Background Arsenic Concentration in Soil," DTSC, March 2008.
***** Source: Kerney Foundation Special Report, "Background Concentrations of Trace and Major Elements in California Soils," Kerney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California, March 1996.
****** Source: National Geochemical Survey, United States Geological Survey, Open-File Report 2004-1001, Version 5.0, September 2008, last modified February 28, 2017, Angeles County, CA (https://mrdata.usgs.gov/geochem/doc/averages/countydata.htm)
DTSC soil screening levels obtained from "Human Health Risk Assessment Note 3, DTSC-modified Screening Levels," Cal/EPA DTSC Human and Ecological Risk Office, June 2020, https://www.dtsc.ca.gov/assessingrisk/humanrisk2.cfm: The lower of the carcenogenic or non-carcinogenic health effect value listed.
San Francisco Bay Regional Water Quality Control Board (**SFB-RWQCB**) Environmental Screening Level (**ESL**) obtained from: https://www.waterboards.ca.gov/sanfranciscobay/ water_issues/programs/esl.html, January 2019 (Rev. 2). The lower of the analyte's carcinogenic or non-carcinogenic health effect value listed.
USEPA screening levels obtained from USEPA website: https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables, updated November 2020. The maximum contaminant level (MCL) risk-based value listed. Risk-based value listed if no MCL-based value.

NA: not analyzed
ND: no data provided in the referenced sources
NS: no established screening level

TABLE 2
SOIL GAS ANALYTICAL RESULTS SUMMARY

Proposed Chick-fil-A Restaurant 4698
Huntington SW & 210 FSU
820 West Huntington Drive
Monrovia, California
Giles Project No. 2E-2003011

Sample Location	VP-1	VP-2	VP-3	VP-4	Attenuated Cal/EPA DTSC Ambient Air Screening Level (µg/m^3)		SFB-RWQCB Soil Gas ESL (µg/m^3)	
Sample Depth (feet below grade)	5-6	5-6	5-6	5-6	**Land Use**		**Land Use**	
Sample Date	4/14/20				**Residential**	**Commercial**	**Residential**	**Commercial**
Detected Volatile Organic Compound (µg/m^3)								
1,1,1-Trichloroethane	**0.20 J**	**0.33 J**	<0.55	<0.16	33,333	146,667	35000	150,000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon TF)	**0.56 J**	**1.3 J**	**1.0 J**	**0.56 J**	173,333	733,333	NS	NS
1,2,4-Trimethylbenzene	**1.2**	**2.9**	**1.0 J**	**1.4**	2100	8667	NS	NS
2-Butanone (Methyl Ethyl Ketone)	**1.5 J**	**1.8 J**	<2.0	**1.2 J**	173,333	733,333	170,000	730,000
2-Hexanone (Methyl Butyl Ketone)	**0.30 J**	**0.65 J**	<0.79	**0.31 J**	1033	4333	NS	NS
4-Methyl-2-pentanone (MIBK)	**0.99 J**	<0.80	<2.7	**0.81 J**	103,333	433,333	NS	NS
Acetone	**5.6 J**	**13 J**	<11	**6.9 J**	1,066,667	4,666,667	1,100,000	4,500,000
Benzene	**0.46 J**	**1.5**	**0.68 J**	**0.43 J**	3.23	14	3.2	14
Bromodichloromethane	<0.29	**1.3**	<0.98	<0.29	2.53	11	2.5	11
Butane	**8.2**	**1.7 J**	**2.5 J**	**8.6**	NS	NS	NS	NS
Carbon Disulfide	**2.5**	**0.59 J**	**0.34 J**	**0.20 J**	24,333	103,333	NS	NS
Carbon Tetrachloride	<0.24	**0.45 J**	<0.80	<0.24	16	67	16	68
Chlorobenzene	<0.23	**0.28 J**	<0.75	<0.23	1733	7333	1700	7300
Chlorodifluoromethane	**0.68 J**	**0.41 J**	**0.73 J**	**0.54 J**	1,733,333	7,333,333	NS	NS
Chloroform	**0.84 J**	**1.4**	<0.62	**1.4**	4.00	18	4.1	18
Cyclohexane	**8.6**	**12**	**2.0 J**	**8.3**	210,000	866,667	NS	NS
Dibromochloromethane	<0.36	**1.4 J**	<1.2	<0.36	NS	NS	NS	NS
Dichlorodifluoromethane	**1.1**	**1.0**	**1.8 J**	**1.2**	3333	14,667	NS	NS
Ethylbenzene	**31**	**9.4**	<0.98	**4.8**	37	163	37	160
Heptane	**0.67 J**	**2.6**	<0.64	**0.48 J**	14,000	60,000	NS	NS
Hexane	**0.74 J**	**2.7**	**1.8 J**	**1.4**	24,333	103,333	NS	NS
Isopropylbenzene (cumene)	**0.92 J**	**0.71 J**	<0.98	<0.29	14,000	60,000	NS	NS
Methylene Chloride (dichloromethane)	**1.1 J**	**3.0 J**	**6.1 J**	**6.2**	33	400	34	410
m&p-Xylenes	**130**	**56**	**2.9**	**17**	3333	14,667	3500	15000
Naphthalene	**0.61 J**	<0.47	<1.6	<0.47	2.77	12	2.8	12
o-Xylene	**33**	**24**	**0.98 J**	**4.8**	3333	14,667	3500	15000
Propylbenzene	<0.28	**0.67 J**	<0.92	**0.34 J**	33,333	146,667	NS	NS
Styrene	**0.65 J**	**0.72 J**	<0.82	**0.27 J**	31,333	130,000	31,000	130,000
Tetrachloroethene (PCE)	**(56)**	**(27)**	**150***	**(41)**	15	67	15	67
Toluene	**4.2**	**43**	**3.1 J**	**3.8**	10,333	43,333	10,000	44,000
Trichloroethene (TCE)	**0.72 J**	**0.82 J**	**<0.64**	**0.97 J**	16	100	16	100
Trichlorofluoromethane	**1.6**	**1.9**	**2.1 J**	**1.4**	43,333	176,667	NS	NS

NOTES:

CalEPA DTSC: Californial Environmental Protection Agency Department of Toxic Substances Control

SFB-RWQCB: San Francisco Bay Regional Water Quality Control Board **ESL**: Environmental Screening Level

NS: no CalEPA DTSC established screening level

µg/m^3: microgram per cubic meter

J: Estimated value. Analyte detected between the laboratory method reporting and detection limits

XXX: Analyte detected above its laboratory method detection limit

<X: Analyte not detected above its laboratory method detection limit of X for Giles results (Method TO-15) or laboratory method reporting limit of X for Salem Engineering results (Method 8260SV).

(XXX): Analyte detected above the lower of its carcinogenic or non-carcenogenic health effect Cal/EPA DTSC attenuated air screening level for residential land

XXX: Analyte detected above the lower of its carcinogenic or non-carcenogenic health effect Cal/EPA DTSC attenuated air screening level for commercial land u

Cal/EPA DTSC ambient air screening levels obtained from "Human Health Risk Assessment Note 3, DTSC-modified Screening Levels," Cal/EPA DTSC Human and Ecological Risk Office, June 2020, https://www.dtsc.ca.gov/assessingrisk/humanrisk2.cfm or USEPA website: https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables, updated November 2019.

Attenuated DTSC ambient air screening level calculated by dividing the analyte's DTSC ambient air screening level (1x10 $^{-6}$ risk) by the DTSC-endorsed attenuation factor of 0.03.

San Francisco Bay Regional Water Quality Control Board (**SFB-RWQCB**) Environmental Screening Level (**ESL**) based upon 1x10^{-6} risk obtained from: https://www.waterboards.ca.gov/sanfranciscobay/ water_issues/programs/esl.html, January 2019 (Rev. 2). The lower of the analyte's carcinogenic or non-carcinogenic health effect value listed.

***: Risk calculated for highest detected tetrachloroethene (PCE) concentration using target risk of 1x10 $^{-5}$ and United States Environmental Protection Agency risk calculator https://epa-visl.ornl.gov/cgi-bin/visl_search, March, 2021. The calculated cancer risk was 9.54x10 $^{-8}$ and the hazard quotient was 0.0257. This is an acceptable carenogenic risk and health hazard for commercial land use.**

APPENDIX A

Important Information About Your Geoenvironmental Report

Important Information About Your Geoenvironmental Report

Geoenvironmental studies are commissioned to gain information about environmental conditions on and beneath the surface of a site. The more comprehensive the study, the more reliable the assessment is likely to be. But remember: Any such assessment is to a greater or lesser extent based on professional opinions about conditions that cannot be seen or tested. Accordingly, no matter how many data are developed, risks created by unanticipated conditions will always remain. *Have realistic expectations.* Work with your geoenvironmental consultant to manage known and unknown risks. Part of that process should already have been accomplished, through the risk allocation provisions you and your geoenvironmental professional discussed and included in your contract's general terms and conditions. This document is intended to explain some of the concepts that may be included in your agreement, and to pass along information and suggestions to help you manage your risk.

Beware of Change; Keep Your Geoenvironmental Professional Advised

The design of a geoenvironmental study considers a variety of factors that are subject to change. Changes can undermine the applicability of a report's findings, conclusions, and recommendations. *Advise your geoenvironmental professional about any changes you become aware of.* Geoenvironmental professionals cannot accept responsibility or liability for problems that occur because a report fails to consider conditions that did not exist when the study was designed. Ask your geoenvironmental professional about the types of changes you should be particularly alert to. Some of the most common include:

- modification of the proposed development or ownership group,
- sale or other property transfer,
- replacement of or additions to the financing entity,
- amendment of existing regulations or introduction of new ones, or
- changes in the use or condition of adjacent property.

Should you become aware of any change, *do not rely on a geoenvironmental report.* Advise your geoenvironmental professional immediately; follow the professional's advice.

Recognize the Impact of Time

A geoenvironmental professional's findings, recommendations, and conclusions cannot remain valid indefinitely. The more time that passes, the more likely it is that important latent changes will occur. *Do not rely on a geoenvironmental report if too much time has elapsed since it was completed.* Ask your environmental professional to define "too much time." In the case of Phase I Environmental Site Assessments (ESAs), for example, more than 180 days after submission is generally considered "too much."

Prepare To Deal with Unanticipated Conditions

The findings, recommendations, and conclusions of a Phase I ESA report typically are based on a review of historical information, interviews, a site "walkover," and other forms of noninvasive research. When site subsurface conditions are not sampled in any way, the risk of unanticipated conditions is higher than it would otherwise be.

While borings, installation of monitoring wells, and similar invasive test methods can help reduce the risk of unanticipated conditions, *do not overvalue the effectiveness of testing.* Testing provides information about actual conditions only at the precise locations where samples are taken, and only when they are taken. Your geoenvironmental professional has applied that specific information to develop a general opinion about environmental conditions. *Actual conditions in areas not sampled may differ (sometimes sharply) from those predicted in a report.* For example, a site may contain an unregistered underground storage tank that shows no surface trace of its existence. *Even conditions in areas that were tested can change,* sometimes suddenly, due to any number of events, not the least of which include occurrences at

adjacent sites. Recognize, too, that *even some conditions in tested areas may go undiscovered,* because the tests or analytical methods used were designed to detect only those conditions assumed to exist.

Manage your risks by retaining your geoenvironmental professional to work with you as the project proceeds. Establish a contingency fund or other means to enable your geoenvironmental professional to respond rapidly, in order to limit the impact of unforeseen conditions. And to help prevent any misunderstanding, identify those empowered to authorize changes and the administrative procedures that should be followed.

Do Not Permit Any Other Party To Rely on the Report

Geoenvironmental professionals design their studies and prepare their reports to meet the specific needs of the clients who retain them, in light of the risk management methods that the client and geoenvironmental professional agree to, and the statutory, regulatory, or other requirements that apply. The study designed for a developer may differ sharply from one designed for a lender, insurer, public agency...or even another developer. *Unless the report specifically states otherwise, it was developed for you and only you.* Do not unilaterally permit any other party to rely on it. The report and the study underlying it may not be adequate for another party's needs, and you could be held liable for shortcomings your geoenvironmental professional was powerless to prevent or anticipate. Inform your geoenvironmental professional when you know or expect that someone else—a third-party—will want to use or rely on the report. *Do not permit third-party use or reliance until you first confer with the geoenvironmental professional who prepared the report.* Additional testing, analysis, or study may be required and, in any event, appropriate terms and conditions should be agreed to so both you and your geoenvironmental professional are protected from third-party risks. *Any party who relies on a geoenvironmental report without the express written permission of the professional who prepared it and the client for whom it was prepared may be solely liable for any problems that arise.*

Avoid Misinterpretation of the Report

Design professionals and other parties may want to rely on the report in developing plans and specifications. They need to be advised, in writing, that their needs may not have been considered when the study's scope was developed, and, even if their needs were considered, they might misinterpret geoenvironmental findings, conclusions, and recommendations. *Commission your geoenvironmental professional to explain pertinent elements of the report to others who are permitted to rely on it, and to review any plans, specifications or other instruments of professional service that incorporate any of the report's findings, conclusions, or recommendations.* Your geoenvironmental professional has the best understanding of the issues involved, including the fundamental assumptions that underpinned the study's scope.

Give Contractors Access to the Report

Reduce the risk of delays, claims, and disputes by giving contractors access to the full report, *providing that it is accompanied by a letter of transmittal that can protect you* by making it unquestionably clear that: 1) the study was not conducted and the report was not prepared for purposes of bid development, and 2) the findings, conclusions, and recommendations included in the report are based on a variety of opinions, inferences, and assumptions and are subject to interpretation. Use the letter to also advise contractors to consult with your geoenvironmental professional to obtain clarifications, interpretations, and guidance (a fee may be required for this service), and that—in any event—they should conduct additional studies to obtain the specific type and extent of information each prefers for preparing a bid or cost estimate. Providing access to the full report, with the appropriate caveats, helps prevent formation of adversarial attitudes and claims of concealed or differing conditions. If a contractor elects to ignore the warnings and advice in the letter of transmittal, it would do so at its own risk. Your geoenvironmental professional should be able to help you prepare an effective letter.

Do Not Separate Documentation from the Report

Geoenvironmental reports often include supplemental documentation, such as maps and copies of regulatory files, permits, registrations, citations, and correspondence with regulatory agencies. If subsurface explorations were performed, the report may contain final boring logs and copies of laboratory data. If remediation activities occurred on site, the report may include: copies of daily field reports; waste manifests; and information about the disturbance of subsurface materials, the type and thickness of any fill placed on site, and fill placement practices, among other types of documentation. *Do not separate supplemental documentation from the report. Do not, and do not permit any other party to redraw or modify any of the supplemental documentation for incorporation into other professionals' instruments of service.*

Understand the Role of Standards

Unless they are incorporated into statutes or regulations, standard practices and standard guides developed by the American Society for Testing and Materials (ASTM) and other recognized standards-developing organizations (SDOs) are little more than aspirational methods agreed to by a consensus of a committee. The committees that develop standards may not comprise those best-qualified to establish methods and, no matter what, no standard method can possibly consider the infinite client- and project-specific variables that fly in the face of the theoretical "standard conditions" to which standard practices and standard guides apply. In fact, these variables can be so pronounced that geoenvironmental professionals who comply with every directive of an ASTM or other standard procedure could run afoul of local custom and practice, thus violating the standard of care.

Accordingly, when geoenvironmental professionals indicate in their reports that they have performed a service "in general compliance" with one standard or another, it means they have applied professional judgement in creating and implementing a scope of service designed for the specific client and project involved, and which follows some of the general precepts laid out in the referenced standard. To the extent that a report indicates "general compliance" with a standard, you may wish to speak with your geoenvironmental professional to learn more about what was and was not done. *Do not assume a given standard was followed to the letter.* Research indicates that that seldom is the case.

Realize That Recommendations May Not Be Final

The technical recommendations included in a geoenvironmental report are based on assumptions about actual conditions, and so are preliminary or tentative. Final recommendations can be prepared only by observing actual conditions as they are exposed. For that reason, you should retain the geoenvironmental professional of record to observe construction and/or remediation activities on site, to permit rapid response to unanticipated conditions. *The geoenvironmental professional who prepared the report cannot assume responsibility or liability for the report's recommendations if that professional is not retained to observe relevant site operations.*

Understand That Geotechnical Issues Have Not Been Addressed

Unless geotechnical engineering was specifically included in the scope of professional service, a report is not likely to relate any findings, conclusions, or recommendations about the suitability of subsurface materials for construction purposes, especially when site remediation has been accomplished through the removal, replacement, encapsulation, or chemical treatment of on-site soils. The equipment, techniques, and testing used by geotechnical engineers differ markedly from those used by geoenvironmental professionals; their education, training, and experience are also significantly different. If you plan to build on the subject site, but have not yet had a geotechnical engineering study conducted, your geoenvironmental professional should be able to provide guidance about the next steps you should take. The same firm may provide the services you need.

Read Responsibility Provisions Closely

Geoenvironmental studies cannot be exact; they are based on professional judgement and opinion. Nonetheless, some clients, contractors, and others assume geoenvironmental reports are or certainly should be unerringly precise. Such assumptions have created unrealistic expectations that have led to wholly unwarranted claims and disputes. To help prevent such problems, geoenvironmental professionals have developed a number of report provisions and contract terms that explain who is responsible for what, and how risks are to be allocated. Some people mistake these for "exculpatory clauses," that is, provisions whose purpose is to transfer one party's rightful responsibilities and liabilities to someone else. Read the responsibility provisions included in a report and in the contract you and your geoenvironmental professional agreed to. *Responsibility provisions are not "boilerplate."* They are important.

Rely on Your Geoenvironmental Professional for Additional Assistance

Membership in ASFE exposes geoenvironmental professionals to a wide array of risk management techniques that can be of genuine benefit for everyone involved with a geoenvironmental project. Confer with your ASFE-member geoenvironmental professional for more information.

ASFE
THE BEST PEOPLE ON EARTH

8811 Colesville Road/Suite G106, Silver Spring, MD 20910
Telephone: 301/565-2733 Facsimile: 301/589-2017
e-mail: info@asfe.org www.asfe.org

IIGR06055.0M

APPENDIX B

Drummed Soil Transport Documentation

Manifest

SOIL SAFE OF CA – TPST
Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment:	Responsible for Payment:	Transport Truck #:	Facility #:	Approval Number:	Load #
1 1			A07	A5-1742	0101

Generator and/or Consultant

Generator's Name and Billing Address:
CHICK-FIL-A, INC.
15635 ALTON PARKWAY, SUITE 350
IRVINE, CA 92618

Generator's Phone #: 404-765-2714
Person to Contact:
FAX#:
Customer Account Number

Consultant's Name and Billing Address:

Consultant's Phone #:
Person to Contact:
FAX#:
Customer Account Number

Generation Site (Transport from): *(name & address)*
PROPOSED CFA 04698
820 WEST HUNTINGTON DRIVE
MONROVIA, CA 91016

Site Phone #:
Person to Contact:
FAX#:

Designated Facility (Transport to): *(name & address)*
SOIL SAFE
12328 HIBISCUS AVENUE
ADELANTO, CA 92301

Facility Phone #: (800) 862-8001
Person to Contact: JOE PROVANSAL
FAX#: (760) 246-8004

Transporter Name and Mailing Address:
BELSHIRE
25971 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610
BESI: 318321

Transporter's Phone #: 949-460-5200
CAR000183913
Person to Contact: LARRY MOOTHART
450647
FAX#: 949-460-5210
Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐	03 DM	SOIL	38780	37100	1680
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐					.84

List any exception to items listed above: Scale Ticket # 160277

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils descried in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☐ Consultant ☐
ON BEHALF OF GENERATOR LARRY MOOTHART
Signature and date:
Month 5 Day 11 Year 20

Transporter

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: EDUARDO CARCAMO
Signature and date:
Month 5 Day 11 Year 20

Recycling Facility

Discrepancies:
820WESTH
2293673

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: J. PROVANSAL
Signature and date: 5-21-20

Please print or type.

TRANSPORTER COPY

APPENDIX C

General Notes and Records of Subsurface Exploration and Boring Permits

ENVIRONMENTAL HEALTH

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

Work Plan Approval **Borings B-1 and B-3**

WORK SITE ADDRESS	CITY	ZIP	EMAIL ADDRESS
820 West Huntington Drive (8507-008-035)	Los Angeles	91016	jlewis@gilesengr.com

NOTICE:

- WORK PLAN APPROVALS ARE VALID FOR 180 DAYS. 30 DAY EXTENSIONS OF WORK PLAN APPROVALS ARE CONSIDERED ON AN INDIVIDUAL (CASE-BY-CASE) BASIS AND MAY BE SUBJECT TO ADDITIONAL PLAN REVIEW FEES (HOURLY RATE AS APPLICABLE).
- WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- WORK PLAN APPROVALS ARE LIMITED TO COMPLIANCE WITH THE CALIFORNIA WELL STANDARDS AND THE LOS ANGELES COUNTY CODE AND DOES NOT GRANT ANY RIGHTS TO CONSTRUCT, RENOVATE, OR DECOMMISSION ANY WELL. THE APPLICANT IS RESPONSIBLE FOR SECURING ALL OTHER NECESSARY PERMITS SUCH AS WATER RIGHTS, PROPERTY RIGHTS, COASTAL COMMISSION APPROVALS, USE COVENANTS, ENCROACHMENT PERMISSIONS, UTILITY LINE SETBACKS, CITY/COUNTY PUBLIC WORKS RIGHTS OF WAY, ETC.
- THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE SIGNED BY THE DEPUTY HEALTH OFFICER. WORK SHALL NOT BE INITIATED WITHOUT A WORK PLAN APPROVAL STAMPED BY THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.

TO BE COMPLETED BY DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM:

X	WORK PLAN APPROVED FOR: 2 Soil Boring/Exp. Hole	**PERMIT NUMBER:**	SR0219270	**DATE:**	April 7, 2020

ADDITIONAL APPROVAL CONDITIONS:

- Work plan approval is issued for scope of work submitted to the Drinking Water Program. Any modifications to the scope of work will require additional work plan review.
- As discussed, please ensure the boring/exploration hole is backfilled within 24 hours of boring construction.
- Ensure to backfill using a tremie pipe under pressure or equivalent equipment with approved cement grout, proceeding upward from the bottom of the boring/exploration hole.
- Ensure soil borings are sealed per California Well Standards 74-90
  - Cement grout mix ratio of 5-6 gallons of water per 94-pound bag of Portland cement.
  - Up to 6% of Bentonite may be added to the cement-based mix.
  - No hydrated Bentonite chips
- Borings/Exploration holes must comply with all applicable requirements published in the California Well Standards (Bulletins 74-81 and 74-90) and the Los Angeles County Code, Title 11.

APPROVED BY:

Teri Hachey, REHS
26415 Carl Boyer Dr.
Santa Clarita, Ca 91350
(661) 287-7017

5770

ENVIRONMENTAL HEALTH

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

Work Plan Approval **Boring B-2**

WORK SITE ADDRESS	CITY	ZIP	EMAIL ADDRESS
820 West Huntington Drive (8507-008-041)	Los Angeles	91016	jlewis@gilesengr.com

NOTICE:

- WORK PLAN APPROVALS ARE VALID FOR 180 DAYS. 30 DAY EXTENSIONS OF WORK PLAN APPROVALS ARE CONSIDERED ON AN INDIVIDUAL (CASE-BY-CASE) BASIS AND MAY BE SUBJECT TO ADDITIONAL PLAN REVIEW FEES (HOURLY RATE AS APPLICABLE).
- WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- WORK PLAN APPROVALS ARE LIMITED TO COMPLIANCE WITH THE CALIFORNIA WELL STANDARDS AND THE LOS ANGELES COUNTY CODE AND DOES NOT GRANT ANY RIGHTS TO CONSTRUCT, RENOVATE, OR DECOMMISSION ANY WELL. THE APPLICANT IS RESPONSIBLE FOR SECURING ALL OTHER NECESSARY PERMITS SUCH AS WATER RIGHTS, PROPERTY RIGHTS, COASTAL COMMISSION APPROVALS, USE COVENANTS, ENCROACHMENT PERMISSIONS, UTILITY LINE SETBACKS, CITY/COUNTY PUBLIC WORKS RIGHTS OF WAY, ETC.
- THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE SIGNED BY THE DEPUTY HEALTH OFFICER. WORK SHALL NOT BE INITIATED WITHOUT A WORK PLAN APPROVAL STAMPED BY THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.

TO BE COMPLETED BY DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM:

X	WORK PLAN APPROVED FOR: 1 Soil Boring/Exp. Hole	**PERMIT NUMBER:**	SR0219269	**DATE:**	April 7, 2020

ADDITIONAL APPROVAL CONDITIONS:

- Work plan approval is issued for scope of work submitted to the Drinking Water Program. Any modifications to the scope of work will require additional work plan review.
- As discussed, please ensure the boring/exploration hole is backfilled within 24 hours of boring construction.
- Ensure to backfill using a tremie pipe under pressure or equivalent equipment with approved cement grout, proceeding upward from the bottom of the boring/exploration hole.
- Ensure soil borings are sealed per California Well Standards 74-90
  - Cement grout mix ratio of 5-6 gallons of water per 94-pound bag of Portland cement.
  - Up to 6% of Bentonite may be added to the cement-based mix.
  - No hydrated Bentonite chips
- Borings/Exploration holes must comply with all applicable requirements published in the California Well Standards (Bulletins 74-81 and 74-90) and the Los Angeles County Code, Title 11.

APPROVED BY:

Teri Hachey, REHS
26415 Carl Boyer Dr.
Santa Clarita, Ca 91350
(661) 287-7017

REHS NO. 5770

GENERAL NOTES

SAMPLE IDENTIFICATION

All samples are visually classified in general accordance with the Unified Soil Classification System (ASTM D-2487-75 or D-2488-75)

DESCRIPTIVE TERM (% BY DRY WEIGHT)

Trace:	1-10%
Little:	11-20%
Some:	21-35%
And/Adjective	36-50%

PARTICLE SIZE (DIAMETER)

Boulders:	8 inch and larger
Cobbles:	3 inch to 8 inch
Gravel:	coarse - ¾ to 3 inch
	fine – No. 4 (4.76 mm) to ¾ inch
Sand:	coarse – No. 4 (4.76 mm) to No. 10 (2.0 mm)
	medium – No. 10 (2.0 mm) to No. 40 (0.42 mm)
	fine – No. 40 (0.42 mm) to No. 200 (0.074 mm)
Silt:	No. 200 (0.074 mm) and smaller (non-plastic)
Clay:	No 200 (0.074 mm) and smaller (plastic)

SOIL PROPERTY SYMBOLS

Dd:	Dry Density (pcf)
LL:	Liquid Limit, percent
PL:	Plastic Limit, percent
PI:	Plasticity Index (LL-PL)
LOI:	Loss on Ignition, percent
Gs:	Specific Gravity
K:	Coefficient of Permeability
w:	Moisture content, percent
qp:	Calibrated Penetrometer Resistance, tsf
qs:	Vane-Shear Strength, tsf
qu:	Unconfined Compressive Strength, tsf
qc:	Static Cone Penetrometer Resistance (correlated to Unconfined Compressive Strength, tsf)
PID:	Results of vapor analysis conducted on representative samples utilizing a Photoionization Detector calibrated to a benzene standard. Results expressed in HNU-Units. (BDL=Below Detection Limit)

DRILLING AND SAMPLING SYMBOLS

SS:	Split-Spoon
ST:	Shelby Tube – 3 inch O.D. (except where noted)
CS:	3 inch O.D. California Ring Sampler
DC:	Dynamic Cone Penetrometer per ASTM Special Technical Publication No. 399
AU:	Auger Sample
DB:	Diamond Bit
CB:	Carbide Bit
WS:	Wash Sample
RB:	Rock-Roller Bit
BS:	Bulk Sample
Note:	Depth intervals for sampling shown on Record of Subsurface Exploration are not indicative of sample recovery, but position where sampling initiated

N: Penetration Resistance per 12 inch interval, or fraction thereof, for a standard 2 inch O.D. (1⅜ inch I.D.) split spoon sampler driven with a 140 pound weight free-falling 30 inches. Performed in general accordance with Standard Penetration Test Specifications (ASTM D-1586). N in blows per foot equals sum of N-Values where plus sign (+) is shown.

Nc: Penetration Resistance per 1¾ inches of Dynamic Cone Penetrometer. Approximately equivalent to Standard Penetration Test N-Value in blows per foot.

Nr: Penetration Resistance per 12 inch interval, or fraction thereof, for California Ring Sampler driven with a 140 pound weight free-falling 30 inches per ASTM D-3550. Not equivalent to Standard Penetration Test N-Value.

SOIL STRENGTH CHARACTERISTICS

COHESIVE (CLAYEY) SOILS

COMPARATIVE CONSISTENCY	BLOWS PER FOOT (N)	UNCONFINED COMPRESSIVE STRENGTH (TSF)
Very Soft	0 - 2	0 - 0.25
Soft	3 - 4	0.25 - 0.50
Medium Stiff	5 – 8	0.50 - 1.00
Stiff	9 – 15	1.00 - 2.00
Very Stiff	16 – 30	2.00 - 4.00
Hard	31+	4.00+

NON-COHESIVE (GRANULAR) SOILS

RELATIVE DENSITY	BLOWS PER FOOT (N)
Very Loose	0 - 4
Loose	5 - 10
Firm	11 - 30
Dense	31 - 50
Very Dense	51+

DEGREE OF PLASTICITY	PI	DEGREE OF EXPANSIVE POTENTIAL	PI
None to Slight	0 - 4	Low	0 - 15
Slight	5 - 10	Medium	15 - 25
Medium	11 - 30	High	25+
High to Very High	31+		

BORING NO. & LOCATION: B-1	TEST BORING LOG	GILES ENGINEERING ASSOCIATES, INC.
SURFACE ELEVATION:	CHICK-FIL-A NO. 04698	
COMPLETION DATE: 04/14/20	820 WEST HUNTINGTON DRIVE MONROVIA, CA	
FIELD REP: CADE KLOCK	PROJECT NO: 2E-2003011	

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q_u (tsf)	Q_p (tsf)	Q_s (tsf)	W (%)	PID	NOTES
Asphalt										
Dark Brown Sandy fine Gravel (Moist)			1-HA						BDL	
Dark Brown Gravelly fine Sand (Moist)			2-HA						BDL	
	5		3-HA						BDL	
			4-SS						BDL	
Dark Brown Silty fine Sand with trace fine Gravel (Moist)			5-SS						BDL	a)
	10									
Dark Brown fine to medium Sand (Moist)			6-SS						BDL	
			7-SS						BDL	
	15									
Light Brown fine to medium Sand (Moist)			8-SS						BDL	
			9-SS						BDL	
	20									

PID: Results of vapor scan conducted on collected soil samples utilizing a Photoionization Detector (PID) equipped with an 10.6 eV lamp calibrated to an Isobutylene standard. Results expressed in instrument-units. BDL = Below Detection Limit

Boring abandoned after sampling completed using hydrated Bentonite chips.
Boring Terminated at about 20 feet

Water Observation Data	Remarks:
Water Encountered During Drilling: None	Driller: Cascade Drilling
Water Level At End of Drilling:	(a) Soil sample submitted for VOC, SVOC, RCRA Metals and Chromium (III) and (VI) analyses.
Cave Depth At End of Drilling:	HA = Hand Auger Sample
Water Level After Drilling:	SS = Split Spoon Sample
Cave Depth After Drilling:	

GILES LOG REPORT 2E-2003011.GPJ GILES.GDT 5/7/20

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: B-2	TEST BORING LOG	GILES ENGINEERING ASSOCIATES, INC.
SURFACE ELEVATION:	CHICK-FIL-A NO. 04698	
COMPLETION DATE: 04/14/20	820 WEST HUNTINGTON DRIVE MONROVIA, CA	
FIELD REP: CADE KLOCK	PROJECT NO: 2E-2003011	

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q_u (tsf)	Q_p (tsf)	Q_s (tsf)	W (%)	PID	NOTES
Asphalt										
Dark Brown Sandy fine Gravel (Moist)			1-HA						BDL	
Dark Brown Gravelly fine Sand (Moist)			2-HA						BDL	
	5		3-HA						BDL	
Dark Brown Silty fine Sand with trace fine Gravel (Moist)			4-SS						BDL	
			5-SS						BDL	
Light Brown fine Sand (Moist)	10									
			6-SS						BDL	
			7-SS						BDL	
	15									
			8-SS						BDL	
			9-SS						BDL	a)
	20									

PID: Results of vapor scan conducted on collected soil samples utilizing a Photoionization Detector (PID) equipped with an 10.6 eV lamp calibrated to an Isobutylene standard. Results expressed in instrument-units. BDL = Below Detection Limit

Boring abandoned after sampling completed using hydrated Bentonite chips.
Boring Terminated at about 20 feet

Water Observation Data	Remarks:
Water Encountered During Drilling: None	Driller: Cascade Drilling
Water Level At End of Drilling:	(a) Soil sample submitted for VOC, SVOC, RCRA Metals and Chromium (III) and (VI) analyses.
Cave Depth At End of Drilling:	HA = Hand Auger Sample
Water Level After Drilling:	SS = Split Spoon Sample
Cave Depth After Drilling:	

GILES LOG REPORT 2E-2003011.GPJ GILES.GDT 5/7/20

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: B-3	TEST BORING LOG	GILES ENGINEERING ASSOCIATES, INC.
SURFACE ELEVATION:	CHICK-FIL-A NO. 04698	
COMPLETION DATE: 04/14/20	820 WEST HUNTINGTON DRIVE MONROVIA, CA	
FIELD REP: CADE KLOCK	PROJECT NO: 2E-2003011	

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q_u (tsf)	Q_p (tsf)	Q_s (tsf)	W (%)	PID	NOTES
Concrete			1-HA						BDL	
Dark Brown Sandy fine to medium Gravel (Moist)										
Dark Brown Silty, Sandy Gravel (Moist)			2-HA						BDL	a)
Dark Brown Silty fine to medium Sand (Moist)	5		3-HA						BDL	
			4-SS						BDL	
Dark Brown fine to medium Sand with trace fine Gravel (Moist)			5-SS						BDL	
	10									
			6-SS						BDL	
Light Brown fine to medium Sand with trace Silt (Moist)			7-SS						BDL	
	15									
			8-SS						BDL	
Light Brown fine to medium Sand (Moist)			9-SS						BDL	
	20									

PID: Results of vapor scan conducted on collected soil samples utilizing a Photoionization Detector (PID) equipped with an 10.6 eV lamp calibrated to an Isobutylene standard. Results expressed in instrument-units. BDL = Below Detection Limit

Boring abandoned after sampling completed using hydrated Bentonite chips.
Boring Terminated at about 20 feet

Water Observation Data	Remarks:
Water Encountered During Drilling: None	Driller: Cascade Drilling
Water Level At End of Drilling:	(a) Soil sample submitted for VOC, SVOC, RCRA Metals and Chromium (III) and (VI) analyses.
Cave Depth At End of Drilling:	HA = Hand Auger Sample
Water Level After Drilling:	SS = Split Spoon Sample
Cave Depth After Drilling:	

GILES LOG REPORT 2E-2003011.GPJ GILES.GDT 5/7/20

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: VP-1	TEST BORING LOG	GILES ENGINEERING ASSOCIATES, INC.
SURFACE ELEVATION:	CHICK-FIL-A NO. 04698	
COMPLETION DATE: 04/14/20	820 WEST HUNTINGTON DRIVE MONROVIA, CA	
FIELD REP: CADE KLOCK	PROJECT NO: 2E-2003011	

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q_u (tsf)	Q_p (tsf)	Q_s (tsf)	W (%)	PID	NOTES
Dark Brown Clayey Silt (topsoil)										
Light Brown fine Sand (Moist)			1-HA						5.1	
Light Brown fine to medium Sand (Moist)	2.5		2-HA						7.5	a)
	5.0		3-HA						BDL	

PID: Results of vapor scan conducted on collected soil samples utilizing a Photoionization Detector (PID) equipped with an 10.6 eV lamp calibrated to an Isobutylene standard. Results expressed in instrument-units. BDL = Below Detection Limit

A temporary vapor probe was installed in the open borehole. The vapor probe was constructed using an 8 foot length of new teflon tubing with filter on the lower end, surrounded by a foot of sand, and a hydrated bentonite seal to the surface.

Temporary vapor probe was allowed to acclimate for approximtely 30 minutes and removed after sampling was complete.

Vapor probe was set between five and six feet below ground surface.
Boring Terminated at about 6 feet

Water Observation Data	Remarks:
Water Encountered During Drilling: None	Driller: Cascade Drilling
Water Level At End of Drilling:	(a) Soil sample submitted for VOC, SVOC, RCRA Metals and Chromium (III) and (VI) analyses.
Cave Depth At End of Drilling:	HA = Hand Auger Sample
Water Level After Drilling:	
Cave Depth After Drilling:	

GILES LOG REPORT 2E-2003011.GPJ GILES.GDT 5/7/20

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: VP-2	TEST BORING LOG	GILES ENGINEERING ASSOCIATES, INC.
SURFACE ELEVATION:	CHICK-FIL-A NO. 04698	
COMPLETION DATE: 04/14/20	820 WEST HUNTINGTON DRIVE MONROVIA, CA	
FIELD REP: CADE KLOCK	PROJECT NO: 2E-2003011	

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q_u (tsf)	Q_p (tsf)	Q_s (tsf)	W (%)	PID	NOTES
Asphalt										
Dark Brown Sandy fine Gravel (Moist)			1-HA						BDL	
Dark Brown fine Sand with trace medium Gravel (Moist)	2.5		2-HA						BDL	
Dark Brown Silty fine to medium Sand (Moist)			3-HA						BDL	a)
Dark Brown fine Sand (Moist)	5.0									

PID: Results of vapor scan conducted on collected soil samples utilizing a Photoionization Detector (PID) equipped with an 10.6 eV lamp calibrated to an Isobutylene standard. Results expressed in instrument-units. BDL = Below Detection Limit

A temporary vapor probe was installed in the open borehole. The vapor probe was constructed using an 8 foot length of new teflon tubing with filter on the lower end, surrounded by a foot of sand, and a hydrated bentonite seal to the surface.

Temporary vapor probe was allowed to acclimate for approximtely 30 minutes and removed after sampling was complete.

Vapor probe was set between five and six feet below ground surface.
Boring Terminated at about 6 feet

Water Observation Data	Remarks:
Water Encountered During Drilling: None	Driller: Cascade Drilling
Water Level At End of Drilling:	(a) Soil sample submitted for VOC, SVOC, RCRA Metals and Chromium (III) and (VI) analyses.
Cave Depth At End of Drilling:	HA = Hand Auger Sample
Water Level After Drilling:	
Cave Depth After Drilling:	

GILES LOG REPORT 2E-2003011.GPJ GILES.GDT 5/7/20

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: VP-3	TEST BORING LOG	GILES ENGINEERING ASSOCIATES, INC.
SURFACE ELEVATION:	CHICK-FIL-A NO. 04698	
COMPLETION DATE: 04/14/20	820 WEST HUNTINGTON DRIVE MONROVIA, CA	
FIELD REP: CADE KLOCK	PROJECT NO: 2E-2003011	

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q_u (tsf)	Q_p (tsf)	Q_s (tsf)	W (%)	PID	NOTES
Dark Brown Clayey Silt (topsoil)										
Dark Brown Silty fine Sand (Moist)			1-HA						BDL	
Dark Brown Silty fine Sand with trace fine Gravel (Moist)	2.5		2-HA						6.1	a)
Light Brown fine to medium Sand (Moist)										
Dark Brown fine Sand (Moist)	5.0		3-HA						BDL	

PID: Results of vapor scan conducted on collected soil samples utilizing a Photoionization Detector (PID) equipped with an 10.6 eV lamp calibrated to an Isobutylene standard. Results expressed in instrument-units. BDL = Below Detection Limit

A temporary vapor probe was installed in the open borehole. The vapor probe was constructed using an 8 foot length of new teflon tubing with filter on the lower end, surrounded by a foot of sand, and a hydrated bentonite seal to the surface.

Temporary vapor probe was allowed to acclimate for approximtely 30 minutes and removed after sampling was complete.

Vapor probe was set between five and six feet below ground surface.
Boring Terminated at about 6 feet

Water Observation Data	Remarks:
Water Encountered During Drilling: None	Driller: Cascade Drilling
Water Level At End of Drilling:	(a) Soil sample submitted for VOC, SVOC, RCRA Metals and Chromium (III) and (VI) analyses.
Cave Depth At End of Drilling:	HA = Hand Auger Sample
Water Level After Drilling:	
Cave Depth After Drilling:	

GILES LOG REPORT 2E-2003011.GPJ GILES.GDT 5/7/20

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: VP-4	TEST BORING LOG	GILES ENGINEERING ASSOCIATES, INC.
SURFACE ELEVATION:	CHICK-FIL-A NO. 04698	
COMPLETION DATE: 04/14/20	820 WEST HUNTINGTON DRIVE MONROVIA, CA	
FIELD REP: CADE KLOCK	PROJECT NO: 2E-2003011	

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q_u (tsf)	Q_p (tsf)	Q_s (tsf)	W (%)	PID	NOTES
Dark Brown Clayey Silt (topsoil) Dark Brown Silty fine Sand with trace Clay (Moist) Dark Brown Clayey Silt with trace fine Sand (Moist)			1-HA						11.5	a)
Light Brown fine to medium Sand (Moist)	2.5		2-HA						BDL	
Light Gray medium Sand with trace fine Gravel (Moist)	5.0		3-HA						BDL	

PID: Results of vapor scan conducted on collected soil samples utilizing a Photoionization Detector (PID) equipped with an 10.6 eV lamp calibrated to an Isobutylene standard. Results expressed in instrument-units. BDL = Below Detection Limit

A temporary vapor probe was installed in the open borehole. The vapor probe was constructed using an 8 foot length of new teflon tubing with filter on the lower end, surrounded by a foot of sand, and a hydrated bentonite seal to the surface.

Temporary vapor probe was allowed to acclimate for approximtely 30 minutes and removed after sampling was complete.

Vapor probe was set between five and six feet below ground surface.
Boring Terminated at about 6 feet

Water Observation Data	Remarks:
Water Encountered During Drilling: None Water Level At End of Drilling: Cave Depth At End of Drilling: Water Level After Drilling: Cave Depth After Drilling:	Driller: Cascade Drilling (a) Soil sample submitted for VOC, SVOC, RCRA Metals and Chromium (III) and (VI) analyses. HA = Hand Auger Sample

GILES LOG REPORT 2E-2003011.GPJ GILES.GDT 5/7/20

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

APPENDIX D

Soil Analytical Laboratory Report and Chains-of-Custody

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-186770-1
Client Project/Site: CFA 4698/Monrovia, CA/2E-2003011

For:
Giles Engineering Associates
2626 Lombardy Lane
Suite 105
Dallas, Texas 75220

Attn: Mr. Mike Pisarik

Authorized for release by:
4/30/2020 2:34:04 PM

Jamie McKinney, Senior Project Manager
(865)291-3000
jamie.mckinney@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Giles Engineering Associates
Job ID: 400-186770-1
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 400-186770-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-186770-1

Comments
No additional comments.

Receipt
The samples were received on 4/15/2020 9:07 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.8º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C: The following analyte(s) recovered outside control limits for the LCS associated with preparation batch 400-486120 and analytical batch 400-487568: Bis(2-chloroethyl)ether, Di-n-butyl phthalate and 4-Nitroaniline. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8270C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-486120 and analytical batch 400-486401 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 400-486120 and analytical batch 400-486401 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Methods 7471A, 7471B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-486001 and analytical batch 400-486166 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method 7196A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-486649 and analytical batch 400-486727 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Giles Engineering Associates
Job ID: 400-186770-1
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-186770-1	VP-1, 2.-4	Solid	04/14/20 07:15	04/15/20 09:07	
400-186770-2	VP-2, 4-6	Solid	04/14/20 09:00	04/15/20 09:07	
400-186770-3	VP-3, 2-4	Solid	04/14/20 08:15	04/15/20 09:07	
400-186770-4	VP-4, 0-2	Solid	04/14/20 07:35	04/15/20 09:07	
400-186770-5	B-1, 8-10	Solid	04/14/20 11:45	04/15/20 09:07	
400-186770-6	B-2, 18-20	Solid	04/14/20 09:20	04/15/20 09:07	
400-186770-7	B-3, 11-13	Solid	04/14/20 10:25	04/15/20 09:07	
400-186770-8	TRIP BLANK	Water	04/14/20 00:00	04/15/20 09:07	

Detection Summary

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: VP-1, 2.-4 — Lab Sample ID: 400-186770-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.2		1.0	0.58	mg/Kg	1	☼	6010B	Total/NA
Barium	45		1.0	0.17	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.093	J	0.51	0.090	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Lead	5.6		1.0	0.23	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.016	J	0.017	0.0099	mg/Kg	1	☼	7471B	Total/NA
Chromium, trivalent	18		5.5	0.41	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: VP-2, 4-6 — Lab Sample ID: 400-186770-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.9		0.96	0.55	mg/Kg	1	☼	6010B	Total/NA
Barium	51		0.96	0.16	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.96	0.30	mg/Kg	1	☼	6010B	Total/NA
Lead	2.8		0.96	0.21	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.033		0.017	0.010	mg/Kg	1	☼	7471B	Total/NA
Chromium, trivalent	12		5.2	0.39	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: VP-3, 2-4 — Lab Sample ID: 400-186770-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.3		1.0	0.57	mg/Kg	1	☼	6010B	Total/NA
Barium	52		1.0	0.17	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		1.0	0.31	mg/Kg	1	☼	6010B	Total/NA
Lead	7.7		1.0	0.22	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.016		0.015	0.0091	mg/Kg	1	☼	7471B	Total/NA
Chromium, trivalent	11		5.4	0.40	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: VP-4, 0-2 — Lab Sample ID: 400-186770-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.0019	J	0.0050	0.00060	mg/Kg	1	☼	8260B	Total/NA
m&p-Xylene	0.0061		0.0050	0.0013	mg/Kg	1	☼	8260B	Total/NA
o-Xylene	0.0021	J	0.0050	0.00099	mg/Kg	1	☼	8260B	Total/NA
Xylenes, Total	0.0082	J	0.0099	0.0019	mg/Kg	1	☼	8260B	Total/NA
Arsenic	5.0		1.1	0.64	mg/Kg	1	☼	6010B	Total/NA
Barium	77		1.1	0.19	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24	J	0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Lead	15		1.1	0.25	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.035		0.019	0.012	mg/Kg	1	☼	7471B	Total/NA
Chromium, trivalent	14		6.1	0.45	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: B-1, 8-10 — Lab Sample ID: 400-186770-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.011	J	0.022	0.011	mg/Kg	1	☼	8260B	Total/NA
Arsenic	3.0		1.0	0.58	mg/Kg	1	☼	6010B	Total/NA
Barium	92		1.0	0.17	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Lead	3.9		1.0	0.22	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.034		0.017	0.010	mg/Kg	1	☼	7471B	Total/NA
Chromium, trivalent	18		5.6	0.41	mg/Kg	1	☼	7196A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Giles Engineering Associates
Job ID: 400-186770-1
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Client Sample ID: B-2, 18-20 — Lab Sample ID: 400-186770-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.1		0.97	0.55	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.97	0.17	mg/Kg	1	☼	6010B	Total/NA
Chromium	10		0.97	0.30	mg/Kg	1	☼	6010B	Total/NA
Lead	2.5		0.97	0.21	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.025		0.015	0.0093	mg/Kg	1	☼	7471B	Total/NA
Chromium, hex	5.8		4.9	0.37	mg/Kg	1	☼	7196A	Total/NA
Chromium, trivalent	4.4	J	5.1	0.38	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: B-3, 11-13 — Lab Sample ID: 400-186770-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.014	J	0.022	0.011	mg/Kg	1	☼	8260B	Total/NA
Arsenic	1.5		0.96	0.54	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.96	0.16	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.9		0.96	0.30	mg/Kg	1	☼	6010B	Total/NA
Lead	2.2		0.96	0.21	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.016		0.015	0.0088	mg/Kg	1	☼	7471B	Total/NA
Chromium, trivalent	9.9		5.2	0.38	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 400-186770-8

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: VP-1, 2.-4
Date Collected: 04/14/20 07:15
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-1
Matrix: Solid
Percent Solids: 91.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
1,1,1-Trichloroethane	ND		0.0061	0.0013	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
1,1,2,2-Tetrachloroethane	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
1,1,2-Trichloroethane	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
1,1-Dichloroethane	ND		0.0061	0.0010	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
1,1-Dichloroethene	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
1,1-Dichloropropene	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
1,2,3-Trichlorobenzene	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
1,2,3-Trichloropropane	ND		0.0061	0.0037	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
1,2,4-Trichlorobenzene	ND		0.0061	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
1,2,4-Trimethylbenzene	ND		0.0061	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
1,2-Dibromo-3-Chloropropane	ND		0.0061	0.0040	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
1,2-Dibromoethane	ND		0.0061	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
1,2-Dichlorobenzene	ND		0.0061	0.00086	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
1,2-Dichloroethane	ND		0.0061	0.0010	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
1,2-Dichloroethene, Total	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
1,2-Dichloropropane	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
1,3,5-Trimethylbenzene	ND		0.0061	0.0010	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
1,3-Dichlorobenzene	ND		0.0061	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
1,3-Dichloropropane	ND		0.0061	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
1,4-Dichlorobenzene	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
1,4-Dioxane	ND		0.61	0.061	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
2,2-Dichloropropane	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
2-Butanone	ND		0.030	0.0073	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
2-Chlorotoluene	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
2-Hexanone	ND		0.030	0.0061	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
4-Chlorotoluene	ND		0.0061	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
4-Isopropyltoluene	ND		0.0061	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
4-Methyl-2-pentanone	ND		0.030	0.0061	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Acetone	ND		0.030	0.016	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Benzene	ND		0.0061	0.00082	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Bromobenzene	ND		0.0061	0.0016	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Bromochloromethane	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Bromodichloromethane	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Bromoform	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Bromomethane	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Carbon disulfide	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Carbon tetrachloride	ND		0.0061	0.0021	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Chlorobenzene	ND		0.0061	0.00063	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Chloroethane	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Chloroform	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Chloromethane	ND		0.0061	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
cis-1,2-Dichloroethene	ND		0.0061	0.00093	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
cis-1,3-Dichloropropene	ND		0.0061	0.0015	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Cyclohexane	ND		0.0061	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Dibromochloromethane	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Dibromomethane	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Dichlorodifluoromethane	ND		0.0061	0.0016	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Diisopropyl ether	ND		0.0061	0.00067	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: VP-1, 2.-4
Date Collected: 04/14/20 07:15
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-1
Matrix: Solid
Percent Solids: 91.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Ethylbenzene	ND		0.0061	0.00074	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Freon TF	ND		0.0061	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Hexachlorobutadiene	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Isobutyl alcohol	ND		0.030	0.012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Isopropylbenzene	ND		0.0061	0.00083	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
m&p-Xylene	ND		0.0061	0.0016	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Methyl acetate	ND		0.0061	0.0056	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Methyl iodide	ND		0.0061	0.0041	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Methyl t-butyl ether	ND		0.0061	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Methylcyclohexane	ND		0.0061	0.0018	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Methylene Chloride	ND		0.018	0.012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Naphthalene	ND		0.0061	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
n-Butylbenzene	ND		0.0061	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
n-Propylbenzene	ND		0.0061	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
o-Xylene	ND		0.0061	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
sec-Butylbenzene	ND		0.0061	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Styrene	ND		0.0061	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Tert-amyl methyl ether	ND		0.0061	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
tert-Butyl alcohol (TBA)	ND		0.012	0.0097	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
tert-Butylbenzene	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Tetrachloroethene	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Tetrahydrofuran	ND		0.012	0.0061	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Toluene	ND		0.0061	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
trans-1,2-Dichloroethene	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
trans-1,3-Dichloropropene	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Trichloroethene	ND		0.0061	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Trichlorofluoromethane	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Vinyl acetate	ND		0.030	0.011	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Vinyl chloride	ND		0.0061	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1
Xylenes, Total	ND		0.012	0.0023	mg/Kg	☼	04/18/20 08:13	04/18/20 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*67 - 130*	*04/18/20 08:13*	*04/18/20 13:15*	*1*
Toluene-d8	*99*		*76 - 127*	*04/18/20 08:13*	*04/18/20 13:15*	*1*
Dibromofluoromethane	*95*		*77 - 127*	*04/18/20 08:13*	*04/18/20 13:15*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
1,2,4,5-Tetrachlorobenzene	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
1,2,4-Trichlorobenzene	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
1,2-Dichlorobenzene	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
1,3-Dichlorobenzene	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
1,4-Dichlorobenzene	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
1-Methylnaphthalene	ND	F1	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
2,2'-oxybis[1-chloropropane]	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
2,3,4,6-Tetrachlorophenol	ND	F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
2,4,5-Trichlorophenol	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
2,4,6-Trichlorophenol	ND	F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: VP-1, 2.-4
Date Collected: 04/14/20 07:15
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-1
Matrix: Solid
Percent Solids: 91.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND	F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
2,4-Dimethylphenol	ND	F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
2,4-Dinitrophenol	ND		1.1	0.32	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
2,4-Dinitrotoluene	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
2,6-Dinitrotoluene	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
2-Chloronaphthalene	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
2-Chlorophenol	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
2-Methylnaphthalene	ND	F1	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
2-Methylphenol	ND	F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
2-Nitroaniline	ND	F1	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
2-Nitrophenol	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
3 & 4 Methylphenol	ND	F1 F2	0.72	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
3,3'-Dichlorobenzidine	ND	F1	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
3-Nitroaniline	ND	F1	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
4,6-Dinitro-2-methylphenol	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
4-Bromophenyl phenyl ether	ND	F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
4-Chloro-3-methylphenol	ND	F1	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
4-Chloroaniline	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
4-Chlorophenyl phenyl ether	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
4-Nitroaniline	ND	F1 * F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
4-Nitrophenol	ND	F2	0.36	0.12	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Acenaphthene	ND	F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Acenaphthylene	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Acetophenone	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Aniline	ND	F1 F2	0.36	0.047	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Anthracene	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Atrazine	ND	F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Azobenzene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Benzaldehyde	ND	F1	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Benzo[a]anthracene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Benzo[a]pyrene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Benzo[b]fluoranthene	ND	F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Benzo[g,h,i]perylene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Benzo[k]fluoranthene	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Benzoic acid	ND	F1 F2	1.1	0.38	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Benzyl alcohol	ND	F1	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Bis(2-chloroethoxy)methane	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Bis(2-chloroethyl)ether	ND	F1 *	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Bis(2-ethylhexyl) phthalate	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Butyl benzyl phthalate	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Caprolactam	ND	F1	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Carbazole	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Chrysene	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Dibenz(a,h)anthracene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Dibenzofuran	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Diethyl phthalate	ND	F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Dimethyl phthalate	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Di-n-butyl phthalate	ND	* F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Di-n-octyl phthalate	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1

Client Sample ID: VP-1, 2.-4
Date Collected: 04/14/20 07:15
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-1
Matrix: Solid
Percent Solids: 91.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Fluorene	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Hexachlorobenzene	ND	F2	0.36	0.11	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Hexachlorobutadiene	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Hexachlorocyclopentadiene	ND	F1 F2	0.36	0.072	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Hexachloroethane	ND	F1 F2	0.36	0.11	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Indeno[1,2,3-cd]pyrene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Isophorone	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Naphthalene	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Nitrobenzene	ND	F1 F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
N-Nitrosodimethylamine	ND	F2	0.36	0.072	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
N-Nitrosodi-n-propylamine	ND	F1 F2	0.36	0.12	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
N-Nitrosodiphenylamine	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Pentachlorophenol	ND	F1 F2	0.72	0.072	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Phenanthrene	ND	F2	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Phenol	ND	F1	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Pyrene	ND	F1	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1
Pyridine	ND	F1 F2	0.36	0.16	mg/Kg	☼	04/16/20 08:24	04/20/20 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*51*		*10 - 150*	*04/16/20 08:24*	*04/20/20 14:42*	*1*
2-Fluorophenol (Surr)	*33*		*25 - 128*	*04/16/20 08:24*	*04/20/20 14:42*	*1*
Nitrobenzene-d5 (Surr)	*33*		*15 - 136*	*04/16/20 08:24*	*04/20/20 14:42*	*1*
Phenol-d5 (Surr)	*37*		*29 - 130*	*04/16/20 08:24*	*04/20/20 14:42*	*1*
Terphenyl-d14 (Surr)	*51*		*24 - 146*	*04/16/20 08:24*	*04/20/20 14:42*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.51	0.34	mg/Kg	☼	04/18/20 12:33	04/20/20 16:31	1
Arsenic	**4.2**		1.0	0.58	mg/Kg	☼	04/18/20 12:33	04/20/20 16:31	1
Barium	**45**		1.0	0.17	mg/Kg	☼	04/18/20 12:33	04/20/20 16:31	1
Cadmium	**0.093**	**J**	0.51	0.090	mg/Kg	☼	04/18/20 12:33	04/20/20 16:31	1
Chromium	**18**		1.0	0.32	mg/Kg	☼	04/18/20 12:33	04/20/20 16:31	1
Lead	**5.6**		1.0	0.23	mg/Kg	☼	04/18/20 12:33	04/20/20 16:31	1
Selenium	ND		2.0	0.89	mg/Kg	☼	04/18/20 12:33	04/20/20 16:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.016**	**J**	0.017	0.0099	mg/Kg	☼	04/16/20 08:20	04/16/20 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND	F1	5.1	0.38	mg/Kg	☼	04/22/20 11:23	04/22/20 15:26	1
Chromium, trivalent	**18**		5.5	0.41	mg/Kg	☼		04/22/20 10:43	1
Percent Solids	**91.1**		0.01	0.01	%			04/16/20 15:40	1
Percent Moisture	**8.9**		0.01	0.01	%			04/16/20 15:40	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: VP-2, 4-6
Date Collected: 04/14/20 09:00
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-2
Matrix: Solid
Percent Solids: 95.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
1,1,1-Trichloroethane	ND		0.0053	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
1,1,2,2-Tetrachloroethane	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
1,1,2-Trichloroethane	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
1,1-Dichloroethane	ND		0.0053	0.00088	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
1,1-Dichloroethene	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
1,1-Dichloropropene	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
1,2,3-Trichlorobenzene	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
1,2,3-Trichloropropane	ND		0.0053	0.0032	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
1,2,4-Trichlorobenzene	ND		0.0053	0.0021	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
1,2,4-Trimethylbenzene	ND		0.0053	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
1,2-Dibromo-3-Chloropropane	ND		0.0053	0.0035	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
1,2-Dibromoethane	ND		0.0053	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
1,2-Dichlorobenzene	ND		0.0053	0.00076	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
1,2-Dichloroethane	ND		0.0053	0.00087	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
1,2-Dichloroethene, Total	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
1,2-Dichloropropane	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
1,3,5-Trimethylbenzene	ND		0.0053	0.00088	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
1,3-Dichlorobenzene	ND		0.0053	0.0010	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
1,3-Dichloropropane	ND		0.0053	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
1,4-Dichlorobenzene	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
1,4-Dioxane	ND		0.53	0.053	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
2,2-Dichloropropane	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
2-Butanone	ND		0.027	0.0064	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
2-Chlorotoluene	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
2-Hexanone	ND		0.027	0.0053	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
4-Chlorotoluene	ND		0.0053	0.0010	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
4-Isopropyltoluene	ND		0.0053	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
4-Methyl-2-pentanone	ND		0.027	0.0053	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Acetone	ND		0.027	0.014	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Benzene	ND		0.0053	0.00071	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Bromobenzene	ND		0.0053	0.0014	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Bromochloromethane	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Bromodichloromethane	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Bromoform	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Bromomethane	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Carbon disulfide	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Carbon tetrachloride	ND		0.0053	0.0018	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Chlorobenzene	ND		0.0053	0.00055	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Chloroethane	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Chloroform	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Chloromethane	ND		0.0053	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
cis-1,2-Dichloroethene	ND		0.0053	0.00081	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
cis-1,3-Dichloropropene	ND		0.0053	0.0013	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Cyclohexane	ND		0.0053	0.0010	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Dibromochloromethane	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Dibromomethane	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Dichlorodifluoromethane	ND		0.0053	0.0014	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Diisopropyl ether	ND		0.0053	0.00059	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1

Client Sample ID: VP-2, 4-6
Date Collected: 04/14/20 09:00
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-2
Matrix: Solid
Percent Solids: 95.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Ethylbenzene	ND		0.0053	0.00065	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Freon TF	ND		0.0053	0.0021	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Hexachlorobutadiene	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Isobutyl alcohol	ND		0.027	0.011	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Isopropylbenzene	ND		0.0053	0.00072	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
m&p-Xylene	ND		0.0053	0.0014	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Methyl acetate	ND		0.0053	0.0049	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Methyl iodide	ND		0.0053	0.0036	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Methyl t-butyl ether	ND		0.0053	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Methylcyclohexane	ND		0.0053	0.0016	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Methylene Chloride	ND		0.016	0.011	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Naphthalene	ND		0.0053	0.0021	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
n-Butylbenzene	ND		0.0053	0.0010	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
n-Propylbenzene	ND		0.0053	0.00096	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
o-Xylene	ND		0.0053	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
sec-Butylbenzene	ND		0.0053	0.0010	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Styrene	ND		0.0053	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Tert-amyl methyl ether	ND		0.0053	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
tert-Butyl alcohol (TBA)	ND		0.011	0.0085	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
tert-Butylbenzene	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Tetrachloroethene	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Tetrahydrofuran	ND		0.011	0.0053	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Toluene	ND		0.0053	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
trans-1,2-Dichloroethene	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
trans-1,3-Dichloropropene	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Trichloroethene	ND		0.0053	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Trichlorofluoromethane	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Vinyl acetate	ND		0.027	0.0097	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Vinyl chloride	ND		0.0053	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1
Xylenes, Total	ND		0.011	0.0020	mg/Kg	☼	04/18/20 08:13	04/18/20 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*67 - 130*	*04/18/20 08:13*	*04/18/20 13:36*	*1*
Toluene-d8	*99*		*76 - 127*	*04/18/20 08:13*	*04/18/20 13:36*	*1*
Dibromofluoromethane	*93*		*77 - 127*	*04/18/20 08:13*	*04/18/20 13:36*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
1,2,4,5-Tetrachlorobenzene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
1,2,4-Trichlorobenzene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
1,2-Dichlorobenzene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
1,3-Dichlorobenzene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
1,4-Dichlorobenzene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
1-Methylnaphthalene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
2,2'-oxybis[1-chloropropane]	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
2,3,4,6-Tetrachlorophenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
2,4,5-Trichlorophenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
2,4,6-Trichlorophenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: VP-2, 4-6
Date Collected: 04/14/20 09:00
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-2
Matrix: Solid
Percent Solids: 95.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
2,4-Dimethylphenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
2,4-Dinitrophenol	ND		1.0	0.30	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
2,4-Dinitrotoluene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
2,6-Dinitrotoluene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
2-Chloronaphthalene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
2-Chlorophenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
2-Methylnaphthalene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
2-Methylphenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
2-Nitroaniline	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
2-Nitrophenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
3 & 4 Methylphenol	ND		0.68	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
3,3'-Dichlorobenzidine	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
3-Nitroaniline	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
4,6-Dinitro-2-methylphenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
4-Bromophenyl phenyl ether	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
4-Chloro-3-methylphenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
4-Chloroaniline	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
4-Chlorophenyl phenyl ether	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
4-Nitroaniline	ND	*	0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
4-Nitrophenol	ND		0.34	0.11	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Acenaphthene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Acenaphthylene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Acetophenone	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Aniline	ND		0.34	0.044	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Anthracene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Atrazine	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Azobenzene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Benzaldehyde	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Benzo[a]anthracene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Benzo[a]pyrene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Benzo[b]fluoranthene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Benzo[g,h,i]perylene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Benzo[k]fluoranthene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Benzoic acid	ND		1.0	0.36	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Benzyl alcohol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Bis(2-chloroethoxy)methane	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Bis(2-chloroethyl)ether	ND	*	0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Bis(2-ethylhexyl) phthalate	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Butyl benzyl phthalate	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Caprolactam	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Carbazole	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Chrysene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Dibenz(a,h)anthracene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Dibenzofuran	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Diethyl phthalate	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Dimethyl phthalate	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Di-n-butyl phthalate	ND	*	0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Di-n-octyl phthalate	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: VP-2, 4-6

Date Collected: 04/14/20 09:00
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-2

Matrix: Solid
Percent Solids: 95.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Fluorene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Hexachlorobenzene	ND		0.34	0.10	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Hexachlorobutadiene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Hexachlorocyclopentadiene	ND		0.34	0.068	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Hexachloroethane	ND		0.34	0.10	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Indeno[1,2,3-cd]pyrene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Isophorone	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Naphthalene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Nitrobenzene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
N-Nitrosodimethylamine	ND		0.34	0.068	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
N-Nitrosodi-n-propylamine	ND		0.34	0.11	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
N-Nitrosodiphenylamine	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Pentachlorophenol	ND		0.68	0.068	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Phenanthrene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Phenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Pyrene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1
Pyridine	ND		0.34	0.15	mg/Kg	☼	04/16/20 08:24	04/20/20 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*50*		*10 - 150*	*04/16/20 08:24*	*04/20/20 15:08*	*1*
2-Fluorophenol (Surr)	*39*		*25 - 128*	*04/16/20 08:24*	*04/20/20 15:08*	*1*
Nitrobenzene-d5 (Surr)	*36*		*15 - 136*	*04/16/20 08:24*	*04/20/20 15:08*	*1*
Phenol-d5 (Surr)	*41*		*29 - 130*	*04/16/20 08:24*	*04/20/20 15:08*	*1*
Terphenyl-d14 (Surr)	*59*		*24 - 146*	*04/16/20 08:24*	*04/20/20 15:08*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.48	0.32	mg/Kg	☼	04/18/20 12:33	04/20/20 17:00	1
Arsenic	**1.9**		0.96	0.55	mg/Kg	☼	04/18/20 12:33	04/20/20 17:00	1
Barium	**51**		0.96	0.16	mg/Kg	☼	04/18/20 12:33	04/20/20 17:00	1
Cadmium	ND		0.48	0.085	mg/Kg	☼	04/18/20 12:33	04/20/20 17:00	1
Chromium	**12**		0.96	0.30	mg/Kg	☼	04/18/20 12:33	04/20/20 17:00	1
Lead	**2.8**		0.96	0.21	mg/Kg	☼	04/18/20 12:33	04/20/20 17:00	1
Selenium	ND		1.9	0.84	mg/Kg	☼	04/18/20 12:33	04/20/20 17:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.033**		0.017	0.010	mg/Kg	☼	04/16/20 08:20	04/16/20 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		5.0	0.37	mg/Kg	☼	04/22/20 11:23	04/22/20 15:28	1
Chromium, trivalent	**12**		5.2	0.39	mg/Kg	☼		04/22/20 10:43	1
Percent Solids	**95.9**		0.01	0.01	%			04/16/20 15:40	1
Percent Moisture	**4.1**		0.01	0.01	%			04/16/20 15:40	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: VP-3, 2-4
Date Collected: 04/14/20 08:15
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-3
Matrix: Solid
Percent Solids: 92.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
1,1,1-Trichloroethane	ND		0.0048	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
1,1,2,2-Tetrachloroethane	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
1,1,2-Trichloroethane	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
1,1-Dichloroethane	ND		0.0048	0.00080	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
1,1-Dichloroethene	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
1,1-Dichloropropene	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
1,2,3-Trichlorobenzene	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
1,2,3-Trichloropropane	ND		0.0048	0.0029	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
1,2,4-Trichlorobenzene	ND		0.0048	0.0019	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
1,2,4-Trimethylbenzene	ND		0.0048	0.00096	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
1,2-Dibromo-3-Chloropropane	ND		0.0048	0.0032	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
1,2-Dibromoethane	ND		0.0048	0.00096	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
1,2-Dichlorobenzene	ND		0.0048	0.00068	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
1,2-Dichloroethane	ND		0.0048	0.00079	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
1,2-Dichloroethene, Total	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
1,2-Dichloropropane	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
1,3,5-Trimethylbenzene	ND		0.0048	0.00080	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
1,3-Dichlorobenzene	ND		0.0048	0.00091	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
1,3-Dichloropropane	ND		0.0048	0.00096	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
1,4-Dichlorobenzene	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
1,4-Dioxane	ND		0.48	0.048	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
2,2-Dichloropropane	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
2-Butanone	ND		0.024	0.0058	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
2-Chlorotoluene	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
2-Hexanone	ND		0.024	0.0048	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
4-Chlorotoluene	ND		0.0048	0.00094	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
4-Isopropyltoluene	ND		0.0048	0.00096	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
4-Methyl-2-pentanone	ND		0.024	0.0048	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Acetone	ND		0.024	0.012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Benzene	ND		0.0048	0.00064	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Bromobenzene	ND		0.0048	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Bromochloromethane	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Bromodichloromethane	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Bromoform	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Bromomethane	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Carbon disulfide	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Carbon tetrachloride	ND		0.0048	0.0016	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Chlorobenzene	ND		0.0048	0.00050	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Chloroethane	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Chloroform	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Chloromethane	ND		0.0048	0.00096	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
cis-1,2-Dichloroethene	ND		0.0048	0.00073	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
cis-1,3-Dichloropropene	ND		0.0048	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Cyclohexane	ND		0.0048	0.00090	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Dibromochloromethane	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Dibromomethane	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Dichlorodifluoromethane	ND		0.0048	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Diisopropyl ether	ND		0.0048	0.00053	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1

Client Sample ID: VP-3, 2-4
Date Collected: 04/14/20 08:15
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-3
Matrix: Solid
Percent Solids: 92.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Ethylbenzene	ND		0.0048	0.00059	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Freon TF	ND		0.0048	0.0019	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Hexachlorobutadiene	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Isobutyl alcohol	ND		0.024	0.0096	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Isopropylbenzene	ND		0.0048	0.00065	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
m&p-Xylene	ND		0.0048	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Methyl acetate	ND		0.0048	0.0044	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Methyl iodide	ND		0.0048	0.0033	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Methyl t-butyl ether	ND		0.0048	0.00096	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Methylcyclohexane	ND		0.0048	0.0014	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Methylene Chloride	ND		0.014	0.0096	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Naphthalene	ND		0.0048	0.0019	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
n-Butylbenzene	ND		0.0048	0.00092	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
n-Propylbenzene	ND		0.0048	0.00087	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
o-Xylene	ND		0.0048	0.00096	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
sec-Butylbenzene	ND		0.0048	0.00091	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Styrene	ND		0.0048	0.00096	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Tert-amyl methyl ether	ND		0.0048	0.00096	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
tert-Butyl alcohol (TBA)	ND		0.0096	0.0077	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
tert-Butylbenzene	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Tetrachloroethene	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Tetrahydrofuran	ND		0.0096	0.0048	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Toluene	ND		0.0048	0.00096	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
trans-1,2-Dichloroethene	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
trans-1,3-Dichloropropene	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Trichloroethene	ND		0.0048	0.00096	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Trichlorofluoromethane	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Vinyl acetate	ND		0.024	0.0087	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Vinyl chloride	ND		0.0048	0.0024	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1
Xylenes, Total	ND		0.0096	0.0018	mg/Kg	☼	04/18/20 08:13	04/18/20 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*67 - 130*	*04/18/20 08:13*	*04/18/20 13:56*	*1*
Toluene-d8	*98*		*76 - 127*	*04/18/20 08:13*	*04/18/20 13:56*	*1*
Dibromofluoromethane	*96*		*77 - 127*	*04/18/20 08:13*	*04/18/20 13:56*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
1,2,4,5-Tetrachlorobenzene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
1,2,4-Trichlorobenzene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
1,2-Dichlorobenzene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
1,3-Dichlorobenzene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
1,4-Dichlorobenzene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
1-Methylnaphthalene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
2,2'-oxybis[1-chloropropane]	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
2,3,4,6-Tetrachlorophenol	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
2,4,5-Trichlorophenol	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
2,4,6-Trichlorophenol	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: VP-3, 2-4
Date Collected: 04/14/20 08:15
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-3
Matrix: Solid
Percent Solids: 92.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
2,4-Dimethylphenol	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
2,4-Dinitrophenol	ND		1.0	0.31	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
2,4-Dinitrotoluene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
2,6-Dinitrotoluene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
2-Chloronaphthalene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
2-Chlorophenol	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
2-Methylnaphthalene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
2-Methylphenol	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
2-Nitroaniline	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
2-Nitrophenol	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
3 & 4 Methylphenol	ND		0.70	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
3,3'-Dichlorobenzidine	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
3-Nitroaniline	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
4,6-Dinitro-2-methylphenol	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
4-Bromophenyl phenyl ether	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
4-Chloro-3-methylphenol	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
4-Chloroaniline	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
4-Chlorophenyl phenyl ether	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
4-Nitroaniline	ND	*	0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
4-Nitrophenol	ND		0.35	0.12	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Acenaphthene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Acenaphthylene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Acetophenone	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Aniline	ND		0.35	0.046	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Anthracene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Atrazine	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Azobenzene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Benzaldehyde	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Benzo[a]anthracene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Benzo[a]pyrene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Benzo[b]fluoranthene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Benzo[g,h,i]perylene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Benzo[k]fluoranthene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Benzoic acid	ND		1.0	0.37	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Benzyl alcohol	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Bis(2-chloroethoxy)methane	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Bis(2-chloroethyl)ether	ND	*	0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Bis(2-ethylhexyl) phthalate	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Butyl benzyl phthalate	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Caprolactam	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Carbazole	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Chrysene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Dibenz(a,h)anthracene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Dibenzofuran	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Diethyl phthalate	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Dimethyl phthalate	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Di-n-butyl phthalate	ND	*	0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Di-n-octyl phthalate	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1

Client Sample ID: VP-3, 2-4
Date Collected: 04/14/20 08:15
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-3
Matrix: Solid
Percent Solids: 92.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Fluorene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Hexachlorobenzene	ND		0.35	0.11	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Hexachlorobutadiene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Hexachlorocyclopentadiene	ND		0.35	0.070	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Hexachloroethane	ND		0.35	0.11	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Indeno[1,2,3-cd]pyrene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Isophorone	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Naphthalene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Nitrobenzene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
N-Nitrosodimethylamine	ND		0.35	0.070	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
N-Nitrosodi-n-propylamine	ND		0.35	0.12	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
N-Nitrosodiphenylamine	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Pentachlorophenol	ND		0.70	0.070	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Phenanthrene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Phenol	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Pyrene	ND		0.35	0.035	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1
Pyridine	ND		0.35	0.16	mg/Kg	☼	04/16/20 08:24	04/20/20 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*30*		*10 - 150*	*04/16/20 08:24*	*04/20/20 15:34*	*1*
2-Fluorophenol (Surr)	*40*		*25 - 128*	*04/16/20 08:24*	*04/20/20 15:34*	*1*
Nitrobenzene-d5 (Surr)	*39*		*15 - 136*	*04/16/20 08:24*	*04/20/20 15:34*	*1*
Phenol-d5 (Surr)	*40*		*29 - 130*	*04/16/20 08:24*	*04/20/20 15:34*	*1*
Terphenyl-d14 (Surr)	*58*		*24 - 146*	*04/16/20 08:24*	*04/20/20 15:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50	0.33	mg/Kg	☼	04/18/20 12:33	04/20/20 17:03	1
Arsenic	**2.3**		1.0	0.57	mg/Kg	☼	04/18/20 12:33	04/20/20 17:03	1
Barium	**52**		1.0	0.17	mg/Kg	☼	04/18/20 12:33	04/20/20 17:03	1
Cadmium	ND		0.50	0.089	mg/Kg	☼	04/18/20 12:33	04/20/20 17:03	1
Chromium	**11**		1.0	0.31	mg/Kg	☼	04/18/20 12:33	04/20/20 17:03	1
Lead	**7.7**		1.0	0.22	mg/Kg	☼	04/18/20 12:33	04/20/20 17:03	1
Selenium	ND		2.0	0.88	mg/Kg	☼	04/18/20 12:33	04/20/20 17:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.016**		0.015	0.0091	mg/Kg	☼	04/16/20 08:20	04/16/20 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		5.2	0.38	mg/Kg	☼	04/22/20 11:23	04/22/20 15:28	1
Chromium, trivalent	**11**		5.4	0.40	mg/Kg	☼		04/22/20 10:43	1
Percent Solids	**92.9**		0.01	0.01	%			04/16/20 15:40	1
Percent Moisture	**7.1**		0.01	0.01	%			04/16/20 15:40	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: VP-4, 0-2
Date Collected: 04/14/20 07:35
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-4
Matrix: Solid
Percent Solids: 82.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
1,1,1-Trichloroethane	ND		0.0050	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
1,1,2,2-Tetrachloroethane	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
1,1,2-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
1,1-Dichloroethane	ND		0.0050	0.00082	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
1,1-Dichloroethene	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
1,1-Dichloropropene	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
1,2,3-Trichlorobenzene	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
1,2,3-Trichloropropane	ND		0.0050	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
1,2,4-Trichlorobenzene	ND		0.0050	0.0020	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
1,2,4-Trimethylbenzene	ND		0.0050	0.00099	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0033	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
1,2-Dibromoethane	ND		0.0050	0.00099	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
1,2-Dichlorobenzene	ND		0.0050	0.00070	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
1,2-Dichloroethane	ND		0.0050	0.00081	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
1,2-Dichloroethene, Total	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
1,2-Dichloropropane	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
1,3,5-Trimethylbenzene	ND		0.0050	0.00082	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
1,3-Dichlorobenzene	ND		0.0050	0.00094	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
1,3-Dichloropropane	ND		0.0050	0.00099	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
1,4-Dichlorobenzene	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
1,4-Dioxane	ND		0.50	0.050	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
2,2-Dichloropropane	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
2-Butanone	ND		0.025	0.0059	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
2-Chlorotoluene	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
2-Hexanone	ND		0.025	0.0050	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
4-Chlorotoluene	ND		0.0050	0.00097	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
4-Isopropyltoluene	ND		0.0050	0.00099	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
4-Methyl-2-pentanone	ND		0.025	0.0050	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Acetone	ND		0.025	0.013	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Benzene	ND		0.0050	0.00066	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Bromobenzene	ND		0.0050	0.0013	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Bromochloromethane	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Bromodichloromethane	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Bromoform	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Bromomethane	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Carbon disulfide	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Carbon tetrachloride	ND		0.0050	0.0017	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Chlorobenzene	ND		0.0050	0.00052	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Chloroethane	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Chloroform	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Chloromethane	ND		0.0050	0.00099	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
cis-1,2-Dichloroethene	ND		0.0050	0.00075	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
cis-1,3-Dichloropropene	ND		0.0050	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Cyclohexane	ND		0.0050	0.00093	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Dibromochloromethane	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Dibromomethane	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Dichlorodifluoromethane	ND		0.0050	0.0013	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Diisopropyl ether	ND		0.0050	0.00055	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1

Client Sample ID: VP-4, 0-2
Date Collected: 04/14/20 07:35
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-4
Matrix: Solid
Percent Solids: 82.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Ethylbenzene	**0.0019**	**J**	0.0050	0.00060	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Freon TF	ND		0.0050	0.0020	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Hexachlorobutadiene	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Isobutyl alcohol	ND		0.025	0.0099	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Isopropylbenzene	ND		0.0050	0.00067	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
m&p-Xylene	**0.0061**		0.0050	0.0013	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Methyl acetate	ND		0.0050	0.0046	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Methyl iodide	ND		0.0050	0.0034	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Methyl t-butyl ether	ND		0.0050	0.00099	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Methylcyclohexane	ND		0.0050	0.0015	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Methylene Chloride	ND		0.015	0.0099	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Naphthalene	ND		0.0050	0.0020	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
n-Butylbenzene	ND		0.0050	0.00095	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
n-Propylbenzene	ND		0.0050	0.00089	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
o-Xylene	**0.0021**	**J**	0.0050	0.00099	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
sec-Butylbenzene	ND		0.0050	0.00094	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Styrene	ND		0.0050	0.00099	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Tert-amyl methyl ether	ND		0.0050	0.00099	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
tert-Butyl alcohol (TBA)	ND		0.0099	0.0079	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
tert-Butylbenzene	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Tetrachloroethene	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Tetrahydrofuran	ND		0.0099	0.0050	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Toluene	ND		0.0050	0.00099	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
trans-1,3-Dichloropropene	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Trichloroethene	ND		0.0050	0.00099	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Trichlorofluoromethane	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Vinyl acetate	ND		0.025	0.0090	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Vinyl chloride	ND		0.0050	0.0025	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1
Xylenes, Total	**0.0082**	**J**	0.0099	0.0019	mg/Kg	☼	04/18/20 08:13	04/18/20 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*67 - 130*	*04/18/20 08:13*	*04/18/20 15:18*	*1*
Toluene-d8	*99*		*76 - 127*	*04/18/20 08:13*	*04/18/20 15:18*	*1*
Dibromofluoromethane	*95*		*77 - 127*	*04/18/20 08:13*	*04/18/20 15:18*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
1,2,4,5-Tetrachlorobenzene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
1,2,4-Trichlorobenzene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
1,2-Dichlorobenzene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
1,3-Dichlorobenzene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
1,4-Dichlorobenzene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
1-Methylnaphthalene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
2,2'-oxybis[1-chloropropane]	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
2,3,4,6-Tetrachlorophenol	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
2,4,5-Trichlorophenol	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
2,4,6-Trichlorophenol	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: VP-4, 0-2
Date Collected: 04/14/20 07:35
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-4
Matrix: Solid
Percent Solids: 82.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
2,4-Dimethylphenol	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
2,4-Dinitrophenol	ND		1.1	0.34	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
2,4-Dinitrotoluene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
2,6-Dinitrotoluene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
2-Chloronaphthalene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
2-Chlorophenol	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
2-Methylnaphthalene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
2-Methylphenol	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
2-Nitroaniline	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
2-Nitrophenol	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
3 & 4 Methylphenol	ND		0.77	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
3,3'-Dichlorobenzidine	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
3-Nitroaniline	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
4,6-Dinitro-2-methylphenol	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
4-Bromophenyl phenyl ether	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
4-Chloro-3-methylphenol	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
4-Chloroaniline	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
4-Chlorophenyl phenyl ether	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
4-Nitroaniline	ND	*	0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
4-Nitrophenol	ND		0.38	0.13	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Acenaphthene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Acenaphthylene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Acetophenone	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Aniline	ND		0.38	0.050	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Anthracene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Atrazine	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Azobenzene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Benzaldehyde	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Benzo[a]anthracene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Benzo[a]pyrene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Benzo[b]fluoranthene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Benzo[g,h,i]perylene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Benzo[k]fluoranthene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Benzoic acid	ND		1.1	0.41	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Benzyl alcohol	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Bis(2-chloroethoxy)methane	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Bis(2-chloroethyl)ether	ND	*	0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Bis(2-ethylhexyl) phthalate	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Butyl benzyl phthalate	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Caprolactam	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Carbazole	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Chrysene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Dibenz(a,h)anthracene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Dibenzofuran	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Diethyl phthalate	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Dimethyl phthalate	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Di-n-butyl phthalate	ND	*	0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Di-n-octyl phthalate	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1

Client Sample ID: VP-4, 0-2
Date Collected: 04/14/20 07:35
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-4
Matrix: Solid
Percent Solids: 82.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Fluorene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Hexachlorobenzene	ND		0.38	0.12	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Hexachlorobutadiene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Hexachlorocyclopentadiene	ND		0.38	0.077	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Hexachloroethane	ND		0.38	0.12	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Indeno[1,2,3-cd]pyrene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Isophorone	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Naphthalene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Nitrobenzene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
N-Nitrosodimethylamine	ND		0.38	0.077	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
N-Nitrosodi-n-propylamine	ND		0.38	0.13	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
N-Nitrosodiphenylamine	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Pentachlorophenol	ND		0.77	0.077	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Phenanthrene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Phenol	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Pyrene	ND		0.38	0.038	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1
Pyridine	ND		0.38	0.17	mg/Kg	☼	04/16/20 08:24	04/20/20 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*48*		*10 - 150*	*04/16/20 08:24*	*04/20/20 16:00*	*1*
2-Fluorophenol (Surr)	*43*		*25 - 128*	*04/16/20 08:24*	*04/20/20 16:00*	*1*
Nitrobenzene-d5 (Surr)	*38*		*15 - 136*	*04/16/20 08:24*	*04/20/20 16:00*	*1*
Phenol-d5 (Surr)	*41*		*29 - 130*	*04/16/20 08:24*	*04/20/20 16:00*	*1*
Terphenyl-d14 (Surr)	*56*		*24 - 146*	*04/16/20 08:24*	*04/20/20 16:00*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.57	0.37	mg/Kg	☼	04/18/20 12:33	04/20/20 17:07	1
Arsenic	**5.0**		1.1	0.64	mg/Kg	☼	04/18/20 12:33	04/20/20 17:07	1
Barium	**77**		1.1	0.19	mg/Kg	☼	04/18/20 12:33	04/20/20 17:07	1
Cadmium	**0.24**	**J**	0.57	0.10	mg/Kg	☼	04/18/20 12:33	04/20/20 17:07	1
Chromium	**14**		1.1	0.35	mg/Kg	☼	04/18/20 12:33	04/20/20 17:07	1
Lead	**15**		1.1	0.25	mg/Kg	☼	04/18/20 12:33	04/20/20 17:07	1
Selenium	ND		2.3	0.98	mg/Kg	☼	04/18/20 12:33	04/20/20 17:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.035**		0.019	0.012	mg/Kg	☼	04/16/20 08:20	04/16/20 12:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		5.8	0.43	mg/Kg	☼	04/22/20 11:23	04/22/20 15:28	1
Chromium, trivalent	**14**		6.1	0.45	mg/Kg	☼		04/22/20 10:43	1
Percent Solids	**82.2**		0.01	0.01	%			04/16/20 15:40	1
Percent Moisture	**17.8**		0.01	0.01	%			04/16/20 15:40	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: B-1, 8-10
Date Collected: 04/14/20 11:45
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-5
Matrix: Solid
Percent Solids: 90.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
1,1,1-Trichloroethane	ND		0.0043	0.00096	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
1,1,2,2-Tetrachloroethane	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
1,1,2-Trichloroethane	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
1,1-Dichloroethane	ND		0.0043	0.00072	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
1,1-Dichloroethene	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
1,1-Dichloropropene	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
1,2,3-Trichlorobenzene	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
1,2,3-Trichloropropane	ND		0.0043	0.0026	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
1,2,4-Trichlorobenzene	ND		0.0043	0.0017	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
1,2,4-Trimethylbenzene	ND		0.0043	0.00087	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
1,2-Dibromo-3-Chloropropane	ND		0.0043	0.0029	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
1,2-Dibromoethane	ND		0.0043	0.00087	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
1,2-Dichlorobenzene	ND		0.0043	0.00062	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
1,2-Dichloroethane	ND		0.0043	0.00071	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
1,2-Dichloroethene, Total	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
1,2-Dichloropropane	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
1,3,5-Trimethylbenzene	ND		0.0043	0.00072	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
1,3-Dichlorobenzene	ND		0.0043	0.00083	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
1,3-Dichloropropane	ND		0.0043	0.00087	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
1,4-Dichlorobenzene	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
1,4-Dioxane	ND		0.43	0.043	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
2,2-Dichloropropane	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
2-Butanone	ND		0.022	0.0052	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
2-Chlorotoluene	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
2-Hexanone	ND		0.022	0.0043	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
4-Chlorotoluene	ND		0.0043	0.00085	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
4-Isopropyltoluene	ND		0.0043	0.00087	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
4-Methyl-2-pentanone	ND		0.022	0.0043	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Acetone	**0.011**	**J**	0.022	0.011	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Benzene	ND		0.0043	0.00058	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Bromobenzene	ND		0.0043	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Bromochloromethane	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Bromodichloromethane	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Bromoform	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Bromomethane	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Carbon disulfide	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Carbon tetrachloride	ND		0.0043	0.0015	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Chlorobenzene	ND		0.0043	0.00045	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Chloroethane	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Chloroform	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Chloromethane	ND		0.0043	0.00087	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
cis-1,2-Dichloroethene	ND		0.0043	0.00066	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
cis-1,3-Dichloropropene	ND		0.0043	0.0010	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Cyclohexane	ND		0.0043	0.00082	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Dibromochloromethane	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Dibromomethane	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Dichlorodifluoromethane	ND		0.0043	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Diisopropyl ether	ND		0.0043	0.00048	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: B-1, 8-10
Date Collected: 04/14/20 11:45
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-5
Matrix: Solid
Percent Solids: 90.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Ethylbenzene	ND		0.0043	0.00053	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Freon TF	ND		0.0043	0.0017	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Hexachlorobutadiene	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Isobutyl alcohol	ND		0.022	0.0087	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Isopropylbenzene	ND		0.0043	0.00059	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
m&p-Xylene	ND		0.0043	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Methyl acetate	ND		0.0043	0.0040	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Methyl iodide	ND		0.0043	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Methyl t-butyl ether	ND		0.0043	0.00087	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Methylcyclohexane	ND		0.0043	0.0013	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Methylene Chloride	ND		0.013	0.0087	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Naphthalene	ND		0.0043	0.0017	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
n-Butylbenzene	ND		0.0043	0.00083	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
n-Propylbenzene	ND		0.0043	0.00078	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
o-Xylene	ND		0.0043	0.00087	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
sec-Butylbenzene	ND		0.0043	0.00083	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Styrene	ND		0.0043	0.00087	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Tert-amyl methyl ether	ND		0.0043	0.00087	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
tert-Butyl alcohol (TBA)	ND		0.0087	0.0070	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
tert-Butylbenzene	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Tetrachloroethene	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Tetrahydrofuran	ND		0.0087	0.0043	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Toluene	ND		0.0043	0.00087	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
trans-1,2-Dichloroethene	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
trans-1,3-Dichloropropene	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Trichloroethene	ND		0.0043	0.00087	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Trichlorofluoromethane	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Vinyl acetate	ND		0.022	0.0079	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Vinyl chloride	ND		0.0043	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1
Xylenes, Total	ND		0.0087	0.0017	mg/Kg	☼	04/18/20 08:13	04/18/20 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*67 - 130*	*04/18/20 08:13*	*04/18/20 15:39*	*1*
Toluene-d8	*98*		*76 - 127*	*04/18/20 08:13*	*04/18/20 15:39*	*1*
Dibromofluoromethane	*96*		*77 - 127*	*04/18/20 08:13*	*04/18/20 15:39*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
1,2,4,5-Tetrachlorobenzene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
1,2,4-Trichlorobenzene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
1,2-Dichlorobenzene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
1,3-Dichlorobenzene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
1,4-Dichlorobenzene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
1-Methylnaphthalene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
2,2'-oxybis[1-chloropropane]	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
2,3,4,6-Tetrachlorophenol	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
2,4,5-Trichlorophenol	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
2,4,6-Trichlorophenol	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: B-1, 8-10
Date Collected: 04/14/20 11:45
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-5
Matrix: Solid
Percent Solids: 90.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
2,4-Dimethylphenol	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
2,4-Dinitrophenol	ND		1.1	0.32	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
2,4-Dinitrotoluene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
2,6-Dinitrotoluene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
2-Chloronaphthalene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
2-Chlorophenol	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
2-Methylnaphthalene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
2-Methylphenol	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
2-Nitroaniline	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
2-Nitrophenol	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
3 & 4 Methylphenol	ND		0.72	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
3,3'-Dichlorobenzidine	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
3-Nitroaniline	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
4,6-Dinitro-2-methylphenol	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
4-Bromophenyl phenyl ether	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
4-Chloro-3-methylphenol	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
4-Chloroaniline	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
4-Chlorophenyl phenyl ether	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
4-Nitroaniline	ND	*	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
4-Nitrophenol	ND		0.36	0.12	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Acenaphthene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Acenaphthylene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Acetophenone	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Aniline	ND		0.36	0.047	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Anthracene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Atrazine	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Azobenzene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Benzaldehyde	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Benzo[a]anthracene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Benzo[a]pyrene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Benzo[b]fluoranthene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Benzo[g,h,i]perylene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Benzo[k]fluoranthene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Benzoic acid	ND		1.1	0.38	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Benzyl alcohol	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Bis(2-chloroethoxy)methane	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Bis(2-chloroethyl)ether	ND	*	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Bis(2-ethylhexyl) phthalate	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Butyl benzyl phthalate	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Caprolactam	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Carbazole	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Chrysene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Dibenz(a,h)anthracene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Dibenzofuran	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Diethyl phthalate	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Dimethyl phthalate	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Di-n-butyl phthalate	ND	*	0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Di-n-octyl phthalate	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1

Client Sample ID: B-1, 8-10
Date Collected: 04/14/20 11:45
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-5
Matrix: Solid
Percent Solids: 90.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Fluorene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Hexachlorobenzene	ND		0.36	0.11	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Hexachlorobutadiene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Hexachlorocyclopentadiene	ND		0.36	0.072	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Hexachloroethane	ND		0.36	0.11	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Indeno[1,2,3-cd]pyrene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Isophorone	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Naphthalene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Nitrobenzene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
N-Nitrosodimethylamine	ND		0.36	0.072	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
N-Nitrosodi-n-propylamine	ND		0.36	0.12	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
N-Nitrosodiphenylamine	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Pentachlorophenol	ND		0.72	0.072	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Phenanthrene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Phenol	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Pyrene	ND		0.36	0.036	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1
Pyridine	ND		0.36	0.16	mg/Kg	☼	04/16/20 08:24	04/20/20 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*54*		*10 - 150*	*04/16/20 08:24*	*04/20/20 16:26*	*1*
2-Fluorophenol (Surr)	*49*		*25 - 128*	*04/16/20 08:24*	*04/20/20 16:26*	*1*
Nitrobenzene-d5 (Surr)	*45*		*15 - 136*	*04/16/20 08:24*	*04/20/20 16:26*	*1*
Phenol-d5 (Surr)	*45*		*29 - 130*	*04/16/20 08:24*	*04/20/20 16:26*	*1*
Terphenyl-d14 (Surr)	*75*		*24 - 146*	*04/16/20 08:24*	*04/20/20 16:26*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.51	0.34	mg/Kg	☼	04/18/20 12:33	04/20/20 17:11	1
Arsenic	**3.0**		1.0	0.58	mg/Kg	☼	04/18/20 12:33	04/20/20 17:11	1
Barium	**92**		1.0	0.17	mg/Kg	☼	04/18/20 12:33	04/20/20 17:11	1
Cadmium	ND		0.51	0.090	mg/Kg	☼	04/18/20 12:33	04/20/20 17:11	1
Chromium	**18**		1.0	0.32	mg/Kg	☼	04/18/20 12:33	04/20/20 17:11	1
Lead	**3.9**		1.0	0.22	mg/Kg	☼	04/18/20 12:33	04/20/20 17:11	1
Selenium	ND		2.0	0.89	mg/Kg	☼	04/18/20 12:33	04/20/20 17:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**		0.017	0.010	mg/Kg	☼	04/16/20 08:20	04/16/20 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		5.4	0.40	mg/Kg	☼	04/22/20 11:23	04/22/20 15:28	1
Chromium, trivalent	**18**		5.6	0.41	mg/Kg	☼		04/22/20 10:43	1
Percent Solids	**90.1**		0.01	0.01	%			04/16/20 15:40	1
Percent Moisture	**9.9**		0.01	0.01	%			04/16/20 15:40	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: B-2, 18-20
Date Collected: 04/14/20 09:20
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-6
Matrix: Solid
Percent Solids: 97.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
1,1,1-Trichloroethane	ND		0.0045	0.00098	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
1,1,2,2-Tetrachloroethane	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
1,1,2-Trichloroethane	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
1,1-Dichloroethane	ND		0.0045	0.00074	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
1,1-Dichloroethene	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
1,1-Dichloropropene	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
1,2,3-Trichlorobenzene	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
1,2,3-Trichloropropane	ND		0.0045	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
1,2,4-Trichlorobenzene	ND		0.0045	0.0018	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
1,2,4-Trimethylbenzene	ND		0.0045	0.00089	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
1,2-Dibromo-3-Chloropropane	ND		0.0045	0.0029	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
1,2-Dibromoethane	ND		0.0045	0.00089	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
1,2-Dichlorobenzene	ND		0.0045	0.00063	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
1,2-Dichloroethane	ND		0.0045	0.00073	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
1,2-Dichloroethene, Total	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
1,2-Dichloropropane	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
1,3,5-Trimethylbenzene	ND		0.0045	0.00074	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
1,3-Dichlorobenzene	ND		0.0045	0.00085	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
1,3-Dichloropropane	ND		0.0045	0.00089	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
1,4-Dichlorobenzene	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
1,4-Dioxane	ND		0.45	0.045	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
2,2-Dichloropropane	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
2-Butanone	ND		0.022	0.0054	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
2-Chlorotoluene	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
2-Hexanone	ND		0.022	0.0045	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
4-Chlorotoluene	ND		0.0045	0.00088	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
4-Isopropyltoluene	ND		0.0045	0.00089	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
4-Methyl-2-pentanone	ND		0.022	0.0045	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Acetone	ND		0.022	0.012	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Benzene	ND		0.0045	0.00060	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Bromobenzene	ND		0.0045	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Bromochloromethane	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Bromodichloromethane	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Bromoform	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Bromomethane	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Carbon disulfide	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Carbon tetrachloride	ND		0.0045	0.0015	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Chlorobenzene	ND		0.0045	0.00046	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Chloroethane	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Chloroform	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Chloromethane	ND		0.0045	0.00089	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
cis-1,2-Dichloroethene	ND		0.0045	0.00068	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
cis-1,3-Dichloropropene	ND		0.0045	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Cyclohexane	ND		0.0045	0.00084	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Dibromochloromethane	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Dibromomethane	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Dichlorodifluoromethane	ND		0.0045	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Diisopropyl ether	ND		0.0045	0.00049	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: B-2, 18-20
Date Collected: 04/14/20 09:20
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-6
Matrix: Solid
Percent Solids: 97.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Ethylbenzene	ND		0.0045	0.00054	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Freon TF	ND		0.0045	0.0018	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Hexachlorobutadiene	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Isobutyl alcohol	ND		0.022	0.0089	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Isopropylbenzene	ND		0.0045	0.00061	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
m&p-Xylene	ND		0.0045	0.0012	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Methyl acetate	ND		0.0045	0.0041	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Methyl iodide	ND		0.0045	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Methyl t-butyl ether	ND		0.0045	0.00089	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Methylcyclohexane	ND		0.0045	0.0013	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Methylene Chloride	ND		0.013	0.0089	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Naphthalene	ND		0.0045	0.0018	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
n-Butylbenzene	ND		0.0045	0.00086	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
n-Propylbenzene	ND		0.0045	0.00080	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
o-Xylene	ND		0.0045	0.00089	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
sec-Butylbenzene	ND		0.0045	0.00085	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Styrene	ND		0.0045	0.00089	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Tert-amyl methyl ether	ND		0.0045	0.00089	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
tert-Butyl alcohol (TBA)	ND		0.0089	0.0071	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
tert-Butylbenzene	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Tetrachloroethene	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Tetrahydrofuran	ND		0.0089	0.0045	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Toluene	ND		0.0045	0.00089	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
trans-1,2-Dichloroethene	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
trans-1,3-Dichloropropene	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Trichloroethene	ND		0.0045	0.00089	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Trichlorofluoromethane	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Vinyl acetate	ND		0.022	0.0081	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Vinyl chloride	ND		0.0045	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1
Xylenes, Total	ND		0.0089	0.0017	mg/Kg	☼	04/18/20 08:13	04/18/20 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*67 - 130*	*04/18/20 08:13*	*04/18/20 15:59*	*1*
Toluene-d8	*98*		*76 - 127*	*04/18/20 08:13*	*04/18/20 15:59*	*1*
Dibromofluoromethane	*96*		*77 - 127*	*04/18/20 08:13*	*04/18/20 15:59*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
1,2,4,5-Tetrachlorobenzene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
1,2,4-Trichlorobenzene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
1,2-Dichlorobenzene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
1,3-Dichlorobenzene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
1,4-Dichlorobenzene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
1-Methylnaphthalene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
2,2'-oxybis[1-chloropropane]	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
2,3,4,6-Tetrachlorophenol	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
2,4,5-Trichlorophenol	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
2,4,6-Trichlorophenol	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: B-2, 18-20
Date Collected: 04/14/20 09:20
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-6
Matrix: Solid
Percent Solids: 97.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
2,4-Dimethylphenol	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
2,4-Dinitrophenol	ND		1.0	0.29	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
2,4-Dinitrotoluene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
2,6-Dinitrotoluene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
2-Chloronaphthalene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
2-Chlorophenol	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
2-Methylnaphthalene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
2-Methylphenol	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
2-Nitroaniline	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
2-Nitrophenol	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
3 & 4 Methylphenol	ND		0.67	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
3,3'-Dichlorobenzidine	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
3-Nitroaniline	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
4,6-Dinitro-2-methylphenol	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
4-Bromophenyl phenyl ether	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
4-Chloro-3-methylphenol	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
4-Chloroaniline	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
4-Chlorophenyl phenyl ether	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
4-Nitroaniline	ND	*	0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
4-Nitrophenol	ND		0.33	0.11	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Acenaphthene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Acenaphthylene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Acetophenone	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Aniline	ND		0.33	0.043	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Anthracene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Atrazine	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Azobenzene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Benzaldehyde	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Benzo[a]anthracene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Benzo[a]pyrene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Benzo[b]fluoranthene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Benzo[g,h,i]perylene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Benzo[k]fluoranthene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Benzoic acid	ND		1.0	0.35	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Benzyl alcohol	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Bis(2-chloroethoxy)methane	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Bis(2-chloroethyl)ether	ND	*	0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Bis(2-ethylhexyl) phthalate	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Butyl benzyl phthalate	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Caprolactam	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Carbazole	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Chrysene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Dibenz(a,h)anthracene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Dibenzofuran	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Diethyl phthalate	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Dimethyl phthalate	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Di-n-butyl phthalate	ND	*	0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Di-n-octyl phthalate	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1

Client Sample ID: B-2, 18-20
Date Collected: 04/14/20 09:20
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-6
Matrix: Solid
Percent Solids: 97.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Fluorene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Hexachlorobenzene	ND		0.33	0.10	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Hexachlorobutadiene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Hexachlorocyclopentadiene	ND		0.33	0.067	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Hexachloroethane	ND		0.33	0.10	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Indeno[1,2,3-cd]pyrene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Isophorone	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Naphthalene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Nitrobenzene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
N-Nitrosodimethylamine	ND		0.33	0.067	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
N-Nitrosodi-n-propylamine	ND		0.33	0.11	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
N-Nitrosodiphenylamine	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Pentachlorophenol	ND		0.67	0.067	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Phenanthrene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Phenol	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Pyrene	ND		0.33	0.033	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1
Pyridine	ND		0.33	0.15	mg/Kg	☼	04/16/20 08:24	04/20/20 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*48*		*10 - 150*	*04/16/20 08:24*	*04/20/20 16:53*	*1*
2-Fluorophenol (Surr)	*45*		*25 - 128*	*04/16/20 08:24*	*04/20/20 16:53*	*1*
Nitrobenzene-d5 (Surr)	*41*		*15 - 136*	*04/16/20 08:24*	*04/20/20 16:53*	*1*
Phenol-d5 (Surr)	*44*		*29 - 130*	*04/16/20 08:24*	*04/20/20 16:53*	*1*
Terphenyl-d14 (Surr)	*84*		*24 - 146*	*04/16/20 08:24*	*04/20/20 16:53*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.49	0.32	mg/Kg	☼	04/18/20 12:33	04/20/20 17:14	1
Arsenic	**2.1**		0.97	0.55	mg/Kg	☼	04/18/20 12:33	04/20/20 17:14	1
Barium	**49**		0.97	0.17	mg/Kg	☼	04/18/20 12:33	04/20/20 17:14	1
Cadmium	ND		0.49	0.086	mg/Kg	☼	04/18/20 12:33	04/20/20 17:14	1
Chromium	**10**		0.97	0.30	mg/Kg	☼	04/18/20 12:33	04/20/20 17:14	1
Lead	**2.5**		0.97	0.21	mg/Kg	☼	04/18/20 12:33	04/20/20 17:14	1
Selenium	ND		1.9	0.85	mg/Kg	☼	04/18/20 12:33	04/20/20 17:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.025**		0.015	0.0093	mg/Kg	☼	04/16/20 08:20	04/16/20 12:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	**5.8**		4.9	0.37	mg/Kg	☼	04/22/20 11:23	04/22/20 15:28	1
Chromium, trivalent	**4.4**	**J**	5.1	0.38	mg/Kg	☼		04/22/20 10:43	1
Percent Solids	**97.2**		0.01	0.01	%			04/16/20 15:40	1
Percent Moisture	**2.8**		0.01	0.01	%			04/16/20 15:40	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: B-3, 11-13
Date Collected: 04/14/20 10:25
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-7
Matrix: Solid
Percent Solids: 96.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
1,1,1-Trichloroethane	ND		0.0044	0.00097	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
1,1,2,2-Tetrachloroethane	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
1,1,2-Trichloroethane	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
1,1-Dichloroethane	ND		0.0044	0.00073	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
1,1-Dichloroethene	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
1,1-Dichloropropene	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
1,2,3-Trichlorobenzene	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
1,2,3-Trichloropropane	ND		0.0044	0.0027	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
1,2,4-Trichlorobenzene	ND		0.0044	0.0018	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
1,2,4-Trimethylbenzene	ND		0.0044	0.00088	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
1,2-Dibromo-3-Chloropropane	ND		0.0044	0.0029	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
1,2-Dibromoethane	ND		0.0044	0.00088	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
1,2-Dichlorobenzene	ND		0.0044	0.00063	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
1,2-Dichloroethane	ND		0.0044	0.00072	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
1,2-Dichloroethene, Total	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
1,2-Dichloropropane	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
1,3,5-Trimethylbenzene	ND		0.0044	0.00073	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
1,3-Dichlorobenzene	ND		0.0044	0.00084	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
1,3-Dichloropropane	ND		0.0044	0.00088	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
1,4-Dichlorobenzene	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
1,4-Dioxane	ND		0.44	0.044	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
2,2-Dichloropropane	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
2-Butanone	ND		0.022	0.0053	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
2-Chlorotoluene	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
2-Hexanone	ND		0.022	0.0044	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
4-Chlorotoluene	ND		0.0044	0.00087	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
4-Isopropyltoluene	ND		0.0044	0.00088	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
4-Methyl-2-pentanone	ND		0.022	0.0044	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Acetone	**0.014**	**J**	0.022	0.011	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Benzene	ND		0.0044	0.00059	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Bromobenzene	ND		0.0044	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Bromochloromethane	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Bromodichloromethane	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Bromoform	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Bromomethane	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Carbon disulfide	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Carbon tetrachloride	ND		0.0044	0.0015	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Chlorobenzene	ND		0.0044	0.00046	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Chloroethane	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Chloroform	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Chloromethane	ND		0.0044	0.00088	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
cis-1,2-Dichloroethene	ND		0.0044	0.00067	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
cis-1,3-Dichloropropene	ND		0.0044	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Cyclohexane	ND		0.0044	0.00083	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Dibromochloromethane	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Dibromomethane	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Dichlorodifluoromethane	ND		0.0044	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Diisopropyl ether	ND		0.0044	0.00049	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: B-3, 11-13
Date Collected: 04/14/20 10:25
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-7
Matrix: Solid
Percent Solids: 96.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Ethylbenzene	ND		0.0044	0.00054	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Freon TF	ND		0.0044	0.0018	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Hexachlorobutadiene	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Isobutyl alcohol	ND		0.022	0.0088	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Isopropylbenzene	ND		0.0044	0.00060	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
m&p-Xylene	ND		0.0044	0.0011	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Methyl acetate	ND		0.0044	0.0041	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Methyl iodide	ND		0.0044	0.0030	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Methyl t-butyl ether	ND		0.0044	0.00088	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Methylcyclohexane	ND		0.0044	0.0013	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Methylene Chloride	ND		0.013	0.0088	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Naphthalene	ND		0.0044	0.0018	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
n-Butylbenzene	ND		0.0044	0.00085	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
n-Propylbenzene	ND		0.0044	0.00080	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
o-Xylene	ND		0.0044	0.00088	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
sec-Butylbenzene	ND		0.0044	0.00084	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Styrene	ND		0.0044	0.00088	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Tert-amyl methyl ether	ND		0.0044	0.00088	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
tert-Butyl alcohol (TBA)	ND		0.0088	0.0071	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
tert-Butylbenzene	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Tetrachloroethene	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Tetrahydrofuran	ND		0.0088	0.0044	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Toluene	ND		0.0044	0.00088	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
trans-1,2-Dichloroethene	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
trans-1,3-Dichloropropene	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Trichloroethene	ND		0.0044	0.00088	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Trichlorofluoromethane	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Vinyl acetate	ND		0.022	0.0080	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Vinyl chloride	ND		0.0044	0.0022	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1
Xylenes, Total	ND		0.0088	0.0017	mg/Kg	☼	04/18/20 08:13	04/18/20 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*67 - 130*	*04/18/20 08:13*	*04/18/20 16:20*	*1*
Toluene-d8	*99*		*76 - 127*	*04/18/20 08:13*	*04/18/20 16:20*	*1*
Dibromofluoromethane	*95*		*77 - 127*	*04/18/20 08:13*	*04/18/20 16:20*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
1,2,4,5-Tetrachlorobenzene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
1,2,4-Trichlorobenzene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
1,2-Dichlorobenzene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
1,3-Dichlorobenzene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
1,4-Dichlorobenzene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
1-Methylnaphthalene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
2,2'-oxybis[1-chloropropane]	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
2,3,4,6-Tetrachlorophenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
2,4,5-Trichlorophenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
2,4,6-Trichlorophenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: B-3, 11-13
Date Collected: 04/14/20 10:25
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-7
Matrix: Solid
Percent Solids: 96.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
2,4-Dimethylphenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
2,4-Dinitrophenol	ND		1.0	0.30	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
2,4-Dinitrotoluene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
2,6-Dinitrotoluene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
2-Chloronaphthalene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
2-Chlorophenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
2-Methylnaphthalene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
2-Methylphenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
2-Nitroaniline	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
2-Nitrophenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
3 & 4 Methylphenol	ND		0.68	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
3,3'-Dichlorobenzidine	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
3-Nitroaniline	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
4,6-Dinitro-2-methylphenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
4-Bromophenyl phenyl ether	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
4-Chloro-3-methylphenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
4-Chloroaniline	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
4-Chlorophenyl phenyl ether	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
4-Nitroaniline	ND	*	0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
4-Nitrophenol	ND		0.34	0.11	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Acenaphthene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Acenaphthylene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Acetophenone	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Aniline	ND		0.34	0.044	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Anthracene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Atrazine	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Azobenzene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Benzaldehyde	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Benzo[a]anthracene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Benzo[a]pyrene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Benzo[b]fluoranthene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Benzo[g,h,i]perylene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Benzo[k]fluoranthene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Benzoic acid	ND		1.0	0.36	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Benzyl alcohol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Bis(2-chloroethoxy)methane	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Bis(2-chloroethyl)ether	ND	*	0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Bis(2-ethylhexyl) phthalate	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Butyl benzyl phthalate	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Caprolactam	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Carbazole	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Chrysene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Dibenz(a,h)anthracene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Dibenzofuran	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Diethyl phthalate	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Dimethyl phthalate	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Di-n-butyl phthalate	ND	*	0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Di-n-octyl phthalate	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1

Client Sample ID: B-3, 11-13
Date Collected: 04/14/20 10:25
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-7
Matrix: Solid
Percent Solids: 96.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Fluorene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Hexachlorobenzene	ND		0.34	0.10	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Hexachlorobutadiene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Hexachlorocyclopentadiene	ND		0.34	0.068	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Hexachloroethane	ND		0.34	0.10	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Indeno[1,2,3-cd]pyrene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Isophorone	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Naphthalene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Nitrobenzene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
N-Nitrosodimethylamine	ND		0.34	0.068	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
N-Nitrosodi-n-propylamine	ND		0.34	0.11	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
N-Nitrosodiphenylamine	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Pentachlorophenol	ND		0.68	0.068	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Phenanthrene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Phenol	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Pyrene	ND		0.34	0.034	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1
Pyridine	ND		0.34	0.15	mg/Kg	☼	04/16/20 08:24	04/20/20 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*61*		*10 - 150*	*04/16/20 08:24*	*04/20/20 17:19*	*1*
2-Fluorophenol (Surr)	*60*		*25 - 128*	*04/16/20 08:24*	*04/20/20 17:19*	*1*
Nitrobenzene-d5 (Surr)	*57*		*15 - 136*	*04/16/20 08:24*	*04/20/20 17:19*	*1*
Phenol-d5 (Surr)	*60*		*29 - 130*	*04/16/20 08:24*	*04/20/20 17:19*	*1*
Terphenyl-d14 (Surr)	*92*		*24 - 146*	*04/16/20 08:24*	*04/20/20 17:19*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.48	0.32	mg/Kg	☼	04/18/20 12:33	04/20/20 17:18	1
Arsenic	**1.5**		0.96	0.54	mg/Kg	☼	04/18/20 12:33	04/20/20 17:18	1
Barium	**38**		0.96	0.16	mg/Kg	☼	04/18/20 12:33	04/20/20 17:18	1
Cadmium	ND		0.48	0.084	mg/Kg	☼	04/18/20 12:33	04/20/20 17:18	1
Chromium	**9.9**		0.96	0.30	mg/Kg	☼	04/18/20 12:33	04/20/20 17:18	1
Lead	**2.2**		0.96	0.21	mg/Kg	☼	04/18/20 12:33	04/20/20 17:18	1
Selenium	ND		1.9	0.83	mg/Kg	☼	04/18/20 12:33	04/20/20 17:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.016**		0.015	0.0088	mg/Kg	☼	04/16/20 08:20	04/16/20 12:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		4.8	0.36	mg/Kg	☼	04/22/20 11:23	04/22/20 15:28	1
Chromium, trivalent	**9.9**		5.2	0.38	mg/Kg	☼		04/22/20 10:43	1
Percent Solids	**96.1**		0.01	0.01	%			04/16/20 15:40	1
Percent Moisture	**3.9**		0.01	0.01	%			04/16/20 15:40	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: TRIP BLANK
Date Collected: 04/14/20 00:00
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			04/21/20 18:15	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			04/21/20 18:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			04/21/20 18:15	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			04/21/20 18:15	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			04/21/20 18:15	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			04/21/20 18:15	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			04/21/20 18:15	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			04/21/20 18:15	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			04/21/20 18:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			04/21/20 18:15	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			04/21/20 18:15	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			04/21/20 18:15	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			04/21/20 18:15	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			04/21/20 18:15	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			04/21/20 18:15	1
1,2-Dichloroethene, Total	ND		1.0	0.50	ug/L			04/21/20 18:15	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			04/21/20 18:15	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			04/21/20 18:15	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			04/21/20 18:15	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			04/21/20 18:15	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			04/21/20 18:15	1
1,4-Dioxane	ND		400	100	ug/L			04/21/20 18:15	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			04/21/20 18:15	1
2-Butanone	ND		25	2.6	ug/L			04/21/20 18:15	1
2-Chlorotoluene	ND		1.0	0.57	ug/L			04/21/20 18:15	1
2-Hexanone	ND		25	3.1	ug/L			04/21/20 18:15	1
4-Chlorotoluene	ND		1.0	0.56	ug/L			04/21/20 18:15	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			04/21/20 18:15	1
4-Methyl-2-pentanone	ND		25	1.8	ug/L			04/21/20 18:15	1
Acetone	ND		25	10	ug/L			04/21/20 18:15	1
Benzene	ND		1.0	0.38	ug/L			04/21/20 18:15	1
Bromobenzene	ND		1.0	0.54	ug/L			04/21/20 18:15	1
Bromochloromethane	ND		1.0	0.52	ug/L			04/21/20 18:15	1
Bromodichloromethane	ND		1.0	0.50	ug/L			04/21/20 18:15	1
Bromoform	ND		5.0	0.71	ug/L			04/21/20 18:15	1
Bromomethane	ND		1.0	0.98	ug/L			04/21/20 18:15	1
Carbon disulfide	ND		1.0	0.50	ug/L			04/21/20 18:15	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			04/21/20 18:15	1
Chlorobenzene	ND		1.0	0.50	ug/L			04/21/20 18:15	1
Chloroethane	ND		1.0	0.76	ug/L			04/21/20 18:15	1
Chloroform	ND		1.0	0.60	ug/L			04/21/20 18:15	1
Chloromethane	ND		1.0	0.83	ug/L			04/21/20 18:15	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			04/21/20 18:15	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			04/21/20 18:15	1
Cyclohexane	ND		1.0	0.50	ug/L			04/21/20 18:15	1
Dibromochloromethane	ND		1.0	0.50	ug/L			04/21/20 18:15	1
Dibromomethane	ND		5.0	0.59	ug/L			04/21/20 18:15	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			04/21/20 18:15	1
Diisopropyl ether	ND		1.0	0.70	ug/L			04/21/20 18:15	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: TRIP BLANK
Date Collected: 04/14/20 00:00
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	ND		1.0	0.68	ug/L			04/21/20 18:15	1
Ethylbenzene	ND		1.0	0.50	ug/L			04/21/20 18:15	1
Freon TF	ND		1.0	0.50	ug/L			04/21/20 18:15	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			04/21/20 18:15	1
Isobutyl alcohol	ND		25	10	ug/L			04/21/20 18:15	1
Isopropylbenzene	ND		1.0	0.53	ug/L			04/21/20 18:15	1
m&p-Xylene	ND		5.0	1.6	ug/L			04/21/20 18:15	1
Methyl acetate	ND		5.0	2.5	ug/L			04/21/20 18:15	1
Methyl iodide	ND		1.0	0.90	ug/L			04/21/20 18:15	1
Methyl t-butyl ether	ND		1.0	0.74	ug/L			04/21/20 18:15	1
Methylcyclohexane	ND		1.0	0.50	ug/L			04/21/20 18:15	1
Methylene Chloride	ND		5.0	3.0	ug/L			04/21/20 18:15	1
Naphthalene	ND		1.0	1.0	ug/L			04/21/20 18:15	1
n-Butylbenzene	ND		1.0	0.76	ug/L			04/21/20 18:15	1
n-Propylbenzene	ND		1.0	0.69	ug/L			04/21/20 18:15	1
o-Xylene	ND		5.0	0.60	ug/L			04/21/20 18:15	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			04/21/20 18:15	1
Styrene	ND		1.0	1.0	ug/L			04/21/20 18:15	1
Tert-amyl methyl ether	ND		1.0	0.60	ug/L			04/21/20 18:15	1
tert-Butyl alcohol (TBA)	ND		10	4.9	ug/L			04/21/20 18:15	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			04/21/20 18:15	1
Tetrachloroethene	ND		1.0	0.58	ug/L			04/21/20 18:15	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			04/21/20 18:15	1
Toluene	ND		1.0	0.41	ug/L			04/21/20 18:15	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			04/21/20 18:15	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			04/21/20 18:15	1
Trichloroethene	ND		1.0	0.50	ug/L			04/21/20 18:15	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			04/21/20 18:15	1
Vinyl acetate	ND		25	2.0	ug/L			04/21/20 18:15	1
Vinyl chloride	ND		1.0	0.50	ug/L			04/21/20 18:15	1
Xylenes, Total	ND		10	1.6	ug/L			04/21/20 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*04/21/20 18:15*	*1*
Toluene-d8	*98*		*80 - 120*		*04/21/20 18:15*	*1*
Dibromofluoromethane	*96*		*81 - 121*		*04/21/20 18:15*	*1*

Surrogate Summary

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(67-130)	(76-127)	(77-127)
400-186770-1	VP-1, 2.-4	93	99	95
400-186770-2	VP-2, 4-6	91	99	93
400-186770-3	VP-3, 2-4	91	98	96
400-186770-4	VP-4, 0-2	92	99	95
400-186770-5	B-1, 8-10	91	98	96
400-186770-6	B-2, 18-20	91	98	96
400-186770-7	B-3, 11-13	91	99	95
LCS 400-486336/1-A	Lab Control Sample	94	99	101
MB 400-486336/3-A	Method Blank	92	98	96

Surrogate Legend

BFB = 4-Bromofluorobenzene
TOL = Toluene-d8
DBFM = Dibromofluoromethane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(78-118)	(80-120)	(81-121)
400-186770-8	TRIP BLANK	94	98	96
LCS 400-486566/1002	Lab Control Sample	93	99	100
MB 400-486566/6	Method Blank	93	99	96

Surrogate Legend

BFB = 4-Bromofluorobenzene
TOL = Toluene-d8
DBFM = Dibromofluoromethane

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)				
		TBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(10-150)	(25-128)	(15-136)	(29-130)	(24-146)
400-186770-1	VP-1, 2.-4	51	33	33	37	51
400-186770-1 MS	VP-1, 2.-4	36	30	40	35	42
400-186770-1 MSD	VP-1, 2.-4	71	42	57	45	56
400-186770-2	VP-2, 4-6	50	39	36	41	59
400-186770-3	VP-3, 2-4	30	40	39	40	58
400-186770-4	VP-4, 0-2	48	43	38	41	56
400-186770-5	B-1, 8-10	54	49	45	45	75
400-186770-6	B-2, 18-20	48	45	41	44	84
400-186770-7	B-3, 11-13	61	60	57	60	92
LCS 400-486120/2-A	Lab Control Sample	84	57	63	56	96
MB 400-486120/1-A	Method Blank	64	73	67	70	94

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)

Surrogate Summary

Client: Giles Engineering Associates
Job ID: 400-186770-1
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

GC/MS VOA

Analysis Batch: 486331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-186770-1	VP-1, 2.-4	Total/NA	Solid	8260B	486336
400-186770-2	VP-2, 4-6	Total/NA	Solid	8260B	486336
400-186770-3	VP-3, 2-4	Total/NA	Solid	8260B	486336
400-186770-4	VP-4, 0-2	Total/NA	Solid	8260B	486336
400-186770-5	B-1, 8-10	Total/NA	Solid	8260B	486336
400-186770-6	B-2, 18-20	Total/NA	Solid	8260B	486336
400-186770-7	B-3, 11-13	Total/NA	Solid	8260B	486336
MB 400-486336/3-A	Method Blank	Total/NA	Solid	8260B	486336
LCS 400-486336/1-A	Lab Control Sample	Total/NA	Solid	8260B	486336

Prep Batch: 486336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-186770-1	VP-1, 2.-4	Total/NA	Solid	5035	
400-186770-2	VP-2, 4-6	Total/NA	Solid	5035	
400-186770-3	VP-3, 2-4	Total/NA	Solid	5035	
400-186770-4	VP-4, 0-2	Total/NA	Solid	5035	
400-186770-5	B-1, 8-10	Total/NA	Solid	5035	
400-186770-6	B-2, 18-20	Total/NA	Solid	5035	
400-186770-7	B-3, 11-13	Total/NA	Solid	5035	
MB 400-486336/3-A	Method Blank	Total/NA	Solid	5035	
LCS 400-486336/1-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 486566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-186770-8	TRIP BLANK	Total/NA	Water	8260B	
MB 400-486566/6	Method Blank	Total/NA	Water	8260B	
LCS 400-486566/1002	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 486120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-186770-1	VP-1, 2.-4	Total/NA	Solid	3546	
400-186770-2	VP-2, 4-6	Total/NA	Solid	3546	
400-186770-3	VP-3, 2-4	Total/NA	Solid	3546	
400-186770-4	VP-4, 0-2	Total/NA	Solid	3546	
400-186770-5	B-1, 8-10	Total/NA	Solid	3546	
400-186770-6	B-2, 18-20	Total/NA	Solid	3546	
400-186770-7	B-3, 11-13	Total/NA	Solid	3546	
MB 400-486120/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-486120/2-A	Lab Control Sample	Total/NA	Solid	3546	
400-186770-1 MS	VP-1, 2.-4	Total/NA	Solid	3546	
400-186770-1 MSD	VP-1, 2.-4	Total/NA	Solid	3546	

Analysis Batch: 486401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-186770-1	VP-1, 2.-4	Total/NA	Solid	8270C	486120
400-186770-2	VP-2, 4-6	Total/NA	Solid	8270C	486120
400-186770-3	VP-3, 2-4	Total/NA	Solid	8270C	486120
400-186770-4	VP-4, 0-2	Total/NA	Solid	8270C	486120
400-186770-5	B-1, 8-10	Total/NA	Solid	8270C	486120

GC/MS Semi VOA (Continued)

Analysis Batch: 486401 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-186770-6	B-2, 18-20	Total/NA	Solid	8270C	486120
400-186770-7	B-3, 11-13	Total/NA	Solid	8270C	486120
MB 400-486120/1-A	Method Blank	Total/NA	Solid	8270C	486120
400-186770-1 MS	VP-1, 2.-4	Total/NA	Solid	8270C	486120
400-186770-1 MSD	VP-1, 2.-4	Total/NA	Solid	8270C	486120

Analysis Batch: 487568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-486120/2-A	Lab Control Sample	Total/NA	Solid	8270C	486120

Metals

Prep Batch: 486001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-186770-1	VP-1, 2.-4	Total/NA	Solid	7471B	
400-186770-2	VP-2, 4-6	Total/NA	Solid	7471B	
400-186770-3	VP-3, 2-4	Total/NA	Solid	7471B	
400-186770-4	VP-4, 0-2	Total/NA	Solid	7471B	
400-186770-5	B-1, 8-10	Total/NA	Solid	7471B	
400-186770-6	B-2, 18-20	Total/NA	Solid	7471B	
400-186770-7	B-3, 11-13	Total/NA	Solid	7471B	
MB 400-486001/14-A	Method Blank	Total/NA	Solid	7471B	
LCS 400-486001/15-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 486166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-186770-1	VP-1, 2.-4	Total/NA	Solid	7471B	486001
400-186770-2	VP-2, 4-6	Total/NA	Solid	7471B	486001
400-186770-3	VP-3, 2-4	Total/NA	Solid	7471B	486001
400-186770-4	VP-4, 0-2	Total/NA	Solid	7471B	486001
400-186770-5	B-1, 8-10	Total/NA	Solid	7471B	486001
400-186770-6	B-2, 18-20	Total/NA	Solid	7471B	486001
400-186770-7	B-3, 11-13	Total/NA	Solid	7471B	486001
MB 400-486001/14-A	Method Blank	Total/NA	Solid	7471B	486001
LCS 400-486001/15-A	Lab Control Sample	Total/NA	Solid	7471B	486001

Prep Batch: 486347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-186770-1	VP-1, 2.-4	Total/NA	Solid	3050B	
400-186770-2	VP-2, 4-6	Total/NA	Solid	3050B	
400-186770-3	VP-3, 2-4	Total/NA	Solid	3050B	
400-186770-4	VP-4, 0-2	Total/NA	Solid	3050B	
400-186770-5	B-1, 8-10	Total/NA	Solid	3050B	
400-186770-6	B-2, 18-20	Total/NA	Solid	3050B	
400-186770-7	B-3, 11-13	Total/NA	Solid	3050B	
MB 400-486347/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 400-486347/2-A	Lab Control Sample	Total/NA	Solid	3050B	
400-186770-1 MS	VP-1, 2.-4	Total/NA	Solid	3050B	
400-186770-1 MSD	VP-1, 2.-4	Total/NA	Solid	3050B	

Metals

Analysis Batch: 486488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-186770-1	VP-1, 2.-4	Total/NA	Solid	6010B	486347
400-186770-2	VP-2, 4-6	Total/NA	Solid	6010B	486347
400-186770-3	VP-3, 2-4	Total/NA	Solid	6010B	486347
400-186770-4	VP-4, 0-2	Total/NA	Solid	6010B	486347
400-186770-5	B-1, 8-10	Total/NA	Solid	6010B	486347
400-186770-6	B-2, 18-20	Total/NA	Solid	6010B	486347
400-186770-7	B-3, 11-13	Total/NA	Solid	6010B	486347
MB 400-486347/1-A	Method Blank	Total/NA	Solid	6010B	486347
LCS 400-486347/2-A	Lab Control Sample	Total/NA	Solid	6010B	486347
400-186770-1 MS	VP-1, 2.-4	Total/NA	Solid	6010B	486347
400-186770-1 MSD	VP-1, 2.-4	Total/NA	Solid	6010B	486347

General Chemistry

Analysis Batch: 486199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-186770-1	VP-1, 2.-4	Total/NA	Solid	Moisture	
400-186770-2	VP-2, 4-6	Total/NA	Solid	Moisture	
400-186770-3	VP-3, 2-4	Total/NA	Solid	Moisture	
400-186770-4	VP-4, 0-2	Total/NA	Solid	Moisture	
400-186770-5	B-1, 8-10	Total/NA	Solid	Moisture	
400-186770-6	B-2, 18-20	Total/NA	Solid	Moisture	
400-186770-7	B-3, 11-13	Total/NA	Solid	Moisture	

Prep Batch: 486649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-186770-1	VP-1, 2.-4	Total/NA	Solid	3060A	
400-186770-2	VP-2, 4-6	Total/NA	Solid	3060A	
400-186770-3	VP-3, 2-4	Total/NA	Solid	3060A	
400-186770-4	VP-4, 0-2	Total/NA	Solid	3060A	
400-186770-5	B-1, 8-10	Total/NA	Solid	3060A	
400-186770-6	B-2, 18-20	Total/NA	Solid	3060A	
400-186770-7	B-3, 11-13	Total/NA	Solid	3060A	
MB 400-486649/8-A	Method Blank	Total/NA	Solid	3060A	
LCS 400-486649/9-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 400-486649/7-A	Lab Control Sample	Total/NA	Solid	3060A	
MRL 400-486649/5-A	Lab Control Sample	Total/NA	Solid	3060A	
400-186770-1 MS	VP-1, 2.-4	Total/NA	Solid	3060A	
400-186770-1 MSD	VP-1, 2.-4	Total/NA	Solid	3060A	

Analysis Batch: 486662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-186770-1	VP-1, 2.-4	Total/NA	Solid	7196A	
400-186770-2	VP-2, 4-6	Total/NA	Solid	7196A	
400-186770-3	VP-3, 2-4	Total/NA	Solid	7196A	
400-186770-4	VP-4, 0-2	Total/NA	Solid	7196A	
400-186770-5	B-1, 8-10	Total/NA	Solid	7196A	
400-186770-6	B-2, 18-20	Total/NA	Solid	7196A	
400-186770-7	B-3, 11-13	Total/NA	Solid	7196A	

QC Association Summary

Client: Giles Engineering Associates
Job ID: 400-186770-1
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

General Chemistry

Analysis Batch: 486727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-186770-1	VP-1, 2.-4	Total/NA	Solid	7196A	486649
400-186770-2	VP-2, 4-6	Total/NA	Solid	7196A	486649
400-186770-3	VP-3, 2-4	Total/NA	Solid	7196A	486649
400-186770-4	VP-4, 0-2	Total/NA	Solid	7196A	486649
400-186770-5	B-1, 8-10	Total/NA	Solid	7196A	486649
400-186770-6	B-2, 18-20	Total/NA	Solid	7196A	486649
400-186770-7	B-3, 11-13	Total/NA	Solid	7196A	486649
MB 400-486649/8-A	Method Blank	Total/NA	Solid	7196A	486649
LCS 400-486649/9-A	Lab Control Sample	Total/NA	Solid	7196A	486649
LCSSRM 400-486649/7-A	Lab Control Sample	Total/NA	Solid	7196A	486649
MRL 400-486649/5-A	Lab Control Sample	Total/NA	Solid	7196A	486649
400-186770-1 MS	VP-1, 2.-4	Total/NA	Solid	7196A	486649
400-186770-1 MSD	VP-1, 2.-4	Total/NA	Solid	7196A	486649

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-486336/3-A
Matrix: Solid
Analysis Batch: 486331

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 486336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
1,1,1-Trichloroethane	ND		0.0050	0.0011	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
1,1,2,2-Tetrachloroethane	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
1,1,2-Trichloroethane	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
1,1-Dichloroethane	ND		0.0050	0.00083	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
1,1-Dichloroethene	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
1,1-Dichloropropene	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
1,2,3-Trichlorobenzene	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
1,2,3-Trichloropropane	ND		0.0050	0.0030	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
1,2,4-Trichlorobenzene	ND		0.0050	0.0020	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0010	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0033	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
1,2-Dibromoethane	ND		0.0050	0.0010	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
1,2-Dichlorobenzene	ND		0.0050	0.00071	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
1,2-Dichloroethane	ND		0.0050	0.00082	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
1,2-Dichloroethene, Total	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
1,2-Dichloropropane	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
1,3,5-Trimethylbenzene	ND		0.0050	0.00083	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
1,3-Dichlorobenzene	ND		0.0050	0.00095	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
1,3-Dichloropropane	ND		0.0050	0.0010	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
1,4-Dichlorobenzene	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
1,4-Dioxane	ND		0.50	0.050	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
2,2-Dichloropropane	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
2-Butanone	ND		0.025	0.0060	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
2-Chlorotoluene	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
2-Hexanone	ND		0.025	0.0050	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
4-Chlorotoluene	ND		0.0050	0.00098	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
4-Isopropyltoluene	ND		0.0050	0.0010	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
4-Methyl-2-pentanone	ND		0.025	0.0050	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Acetone	ND		0.025	0.013	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Benzene	ND		0.0050	0.00067	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Bromobenzene	ND		0.0050	0.0013	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Bromochloromethane	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Bromodichloromethane	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Bromoform	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Bromomethane	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Carbon disulfide	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Carbon tetrachloride	ND		0.0050	0.0017	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Chlorobenzene	ND		0.0050	0.00052	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Chloroethane	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Chloroform	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Chloromethane	ND		0.0050	0.0010	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
cis-1,2-Dichloroethene	ND		0.0050	0.00076	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
cis-1,3-Dichloropropene	ND		0.0050	0.0012	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Cyclohexane	ND		0.0050	0.00094	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Dibromochloromethane	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Dibromomethane	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Dichlorodifluoromethane	ND		0.0050	0.0013	mg/Kg		04/18/20 08:13	04/18/20 11:12	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-486336/3-A
Matrix: Solid
Analysis Batch: 486331

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 486336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diisopropyl ether	ND		0.0050	0.00055	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Ethyl tert-butyl ether	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Ethylbenzene	ND		0.0050	0.00061	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Freon TF	ND		0.0050	0.0020	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Hexachlorobutadiene	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Isobutyl alcohol	ND		0.025	0.010	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Isopropylbenzene	ND		0.0050	0.00068	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
m&p-Xylene	ND		0.0050	0.0013	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Methyl acetate	ND		0.0050	0.0046	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Methyl iodide	ND		0.0050	0.0034	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Methyl t-butyl ether	ND		0.0050	0.0010	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Methylcyclohexane	ND		0.0050	0.0015	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Methylene Chloride	ND		0.015	0.010	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Naphthalene	ND		0.0050	0.0020	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
n-Butylbenzene	ND		0.0050	0.00096	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
n-Propylbenzene	ND		0.0050	0.00090	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
o-Xylene	ND		0.0050	0.0010	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
sec-Butylbenzene	ND		0.0050	0.00095	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Styrene	ND		0.0050	0.0010	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Tert-amyl methyl ether	ND		0.0050	0.0010	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
tert-Butyl alcohol (TBA)	ND		0.010	0.0080	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
tert-Butylbenzene	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Tetrachloroethene	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Tetrahydrofuran	ND		0.010	0.0050	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Toluene	ND		0.0050	0.0010	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
trans-1,3-Dichloropropene	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Trichloroethene	ND		0.0050	0.0010	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Trichlorofluoromethane	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Vinyl acetate	ND		0.025	0.0091	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Vinyl chloride	ND		0.0050	0.0025	mg/Kg		04/18/20 08:13	04/18/20 11:12	1
Xylenes, Total	ND		0.010	0.0019	mg/Kg		04/18/20 08:13	04/18/20 11:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*67 - 130*	*04/18/20 08:13*	*04/18/20 11:12*	*1*
Toluene-d8	*98*		*76 - 127*	*04/18/20 08:13*	*04/18/20 11:12*	*1*
Dibromofluoromethane	*96*		*77 - 127*	*04/18/20 08:13*	*04/18/20 11:12*	*1*

Lab Sample ID: LCS 400-486336/1-A
Matrix: Solid
Analysis Batch: 486331

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.0500	0.0429		mg/Kg		86	65 - 130
1,1,1-Trichloroethane	0.0500	0.0411		mg/Kg		82	63 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.0442		mg/Kg		88	60 - 131
1,1,2-Trichloroethane	0.0500	0.0427		mg/Kg		85	65 - 130
1,1-Dichloroethane	0.0500	0.0418		mg/Kg		84	59 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-486336/1-A
Matrix: Solid
Analysis Batch: 486331

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0500	0.0428		mg/Kg		86	55 - 137
1,1-Dichloropropene	0.0500	0.0416		mg/Kg		83	65 - 130
1,2,3-Trichlorobenzene	0.0500	0.0459		mg/Kg		92	58 - 135
1,2,3-Trichloropropane	0.0500	0.0439		mg/Kg		88	60 - 130
1,2,4-Trichlorobenzene	0.0500	0.0463		mg/Kg		93	56 - 138
1,2,4-Trimethylbenzene	0.0500	0.0414		mg/Kg		83	66 - 130
1,2-Dibromo-3-Chloropropane	0.0500	0.0417		mg/Kg		83	49 - 130
1,2-Dibromoethane	0.0500	0.0443		mg/Kg		89	67 - 130
1,2-Dichlorobenzene	0.0500	0.0419		mg/Kg		84	64 - 130
1,2-Dichloroethane	0.0500	0.0408		mg/Kg		82	62 - 130
1,2-Dichloropropane	0.0500	0.0408		mg/Kg		82	64 - 130
1,3,5-Trimethylbenzene	0.0500	0.0414		mg/Kg		83	67 - 130
1,3-Dichlorobenzene	0.0500	0.0425		mg/Kg		85	66 - 130
1,3-Dichloropropane	0.0500	0.0420		mg/Kg		84	67 - 130
1,4-Dichlorobenzene	0.0500	0.0411		mg/Kg		82	65 - 130
1,4-Dioxane	1.00	0.913		mg/Kg		91	41 - 148
2,2-Dichloropropane	0.0500	0.0424		mg/Kg		85	51 - 132
2-Butanone	0.200	0.191		mg/Kg		96	55 - 130
2-Chlorotoluene	0.0500	0.0402		mg/Kg		80	67 - 130
2-Hexanone	0.200	0.194		mg/Kg		97	57 - 131
4-Chlorotoluene	0.0500	0.0402		mg/Kg		80	66 - 130
4-Isopropyltoluene	0.0500	0.0425		mg/Kg		85	68 - 130
4-Methyl-2-pentanone	0.200	0.187		mg/Kg		93	58 - 130
Acetone	0.200	0.197		mg/Kg		99	48 - 160
Benzene	0.0500	0.0403		mg/Kg		81	65 - 130
Bromobenzene	0.0500	0.0441		mg/Kg		88	65 - 130
Bromochloromethane	0.0500	0.0417		mg/Kg		83	65 - 130
Bromodichloromethane	0.0500	0.0392		mg/Kg		78	61 - 130
Bromoform	0.0500	0.0401		mg/Kg		80	52 - 136
Bromomethane	0.0500	0.0407		mg/Kg		81	12 - 160
Carbon disulfide	0.0500	0.0356		mg/Kg		71	46 - 141
Carbon tetrachloride	0.0500	0.0400		mg/Kg		80	60 - 130
Chlorobenzene	0.0500	0.0411		mg/Kg		82	70 - 130
Chloroethane	0.0500	0.0450		mg/Kg		90	55 - 134
Chloroform	0.0500	0.0411		mg/Kg		82	62 - 130
Chloromethane	0.0500	0.0483		mg/Kg		97	49 - 136
cis-1,2-Dichloroethene	0.0500	0.0415		mg/Kg		83	53 - 135
cis-1,3-Dichloropropene	0.0500	0.0430		mg/Kg		86	61 - 130
Cyclohexane	0.0500	0.0402		mg/Kg		80	61 - 130
Dibromochloromethane	0.0500	0.0406		mg/Kg		81	58 - 132
Dibromomethane	0.0500	0.0412		mg/Kg		82	65 - 130
Dichlorodifluoromethane	0.0500	0.0543		mg/Kg		109	34 - 143
Diisopropyl ether	0.0500	0.0409		mg/Kg		82	62 - 130
Ethyl tert-butyl ether	0.0500	0.0400		mg/Kg		80	60 - 130
Ethylbenzene	0.0500	0.0417		mg/Kg		83	70 - 130
Freon TF	0.0500	0.0493		mg/Kg		99	47 - 143
Hexachlorobutadiene	0.0500	0.0506		mg/Kg		101	62 - 133
Isobutyl alcohol	1.25	1.22		mg/Kg		98	44 - 136
Isopropylbenzene	0.0500	0.0422		mg/Kg		84	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-486336/1-A
Matrix: Solid
Analysis Batch: 486331

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m&p-Xylene	0.0500	0.0413		mg/Kg		83	70 - 130
Methyl acetate	0.100	0.0887		mg/Kg		89	49 - 139
Methyl iodide	0.0500	0.0563		mg/Kg		113	12 - 160
Methyl t-butyl ether	0.0500	0.0422		mg/Kg		84	63 - 130
Methylcyclohexane	0.0500	0.0402		mg/Kg		80	64 - 130
Methylene Chloride	0.0500	0.0422		mg/Kg		84	57 - 132
Naphthalene	0.0500	0.0454		mg/Kg		91	45 - 144
n-Butylbenzene	0.0500	0.0416		mg/Kg		83	66 - 130
n-Propylbenzene	0.0500	0.0429		mg/Kg		86	67 - 130
o-Xylene	0.0500	0.0412		mg/Kg		82	70 - 130
sec-Butylbenzene	0.0500	0.0421		mg/Kg		84	67 - 130
Styrene	0.0500	0.0416		mg/Kg		83	68 - 130
Tert-amyl methyl ether	0.0500	0.0398		mg/Kg		80	50 - 132
tert-Butyl alcohol (TBA)	0.500	0.423		mg/Kg		85	33 - 130
tert-Butylbenzene	0.0500	0.0396		mg/Kg		79	67 - 130
Tetrachloroethene	0.0500	0.0431		mg/Kg		86	67 - 130
Tetrahydrofuran	0.100	0.0909		mg/Kg		91	52 - 132
Toluene	0.0500	0.0404		mg/Kg		81	70 - 130
trans-1,2-Dichloroethene	0.0500	0.0416		mg/Kg		83	58 - 134
trans-1,3-Dichloropropene	0.0500	0.0454		mg/Kg		91	60 - 130
Trichloroethene	0.0500	0.0427		mg/Kg		85	65 - 130
Trichlorofluoromethane	0.0500	0.0431		mg/Kg		86	61 - 136
Vinyl acetate	0.100	0.0954		mg/Kg		95	24 - 160
Vinyl chloride	0.0500	0.0470		mg/Kg		94	52 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*67 - 130*
Toluene-d8	*99*		*76 - 127*
Dibromofluoromethane	*101*		*77 - 127*

Lab Sample ID: MB 400-486566/6
Matrix: Water
Analysis Batch: 486566

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			04/21/20 15:31	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			04/21/20 15:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			04/21/20 15:31	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			04/21/20 15:31	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			04/21/20 15:31	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			04/21/20 15:31	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			04/21/20 15:31	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			04/21/20 15:31	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			04/21/20 15:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			04/21/20 15:31	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			04/21/20 15:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			04/21/20 15:31	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			04/21/20 15:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-486566/6
Matrix: Water
Analysis Batch: 486566

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			04/21/20 15:31	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			04/21/20 15:31	1
1,2-Dichloroethene, Total	ND		1.0	0.50	ug/L			04/21/20 15:31	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			04/21/20 15:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			04/21/20 15:31	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			04/21/20 15:31	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			04/21/20 15:31	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			04/21/20 15:31	1
1,4-Dioxane	ND		400	100	ug/L			04/21/20 15:31	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			04/21/20 15:31	1
2-Butanone	ND		25	2.6	ug/L			04/21/20 15:31	1
2-Chlorotoluene	ND		1.0	0.57	ug/L			04/21/20 15:31	1
2-Hexanone	ND		25	3.1	ug/L			04/21/20 15:31	1
4-Chlorotoluene	ND		1.0	0.56	ug/L			04/21/20 15:31	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			04/21/20 15:31	1
4-Methyl-2-pentanone	ND		25	1.8	ug/L			04/21/20 15:31	1
Acetone	ND		25	10	ug/L			04/21/20 15:31	1
Benzene	ND		1.0	0.38	ug/L			04/21/20 15:31	1
Bromobenzene	ND		1.0	0.54	ug/L			04/21/20 15:31	1
Bromochloromethane	ND		1.0	0.52	ug/L			04/21/20 15:31	1
Bromodichloromethane	ND		1.0	0.50	ug/L			04/21/20 15:31	1
Bromoform	ND		5.0	0.71	ug/L			04/21/20 15:31	1
Bromomethane	ND		1.0	0.98	ug/L			04/21/20 15:31	1
Carbon disulfide	ND		1.0	0.50	ug/L			04/21/20 15:31	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			04/21/20 15:31	1
Chlorobenzene	ND		1.0	0.50	ug/L			04/21/20 15:31	1
Chloroethane	ND		1.0	0.76	ug/L			04/21/20 15:31	1
Chloroform	ND		1.0	0.60	ug/L			04/21/20 15:31	1
Chloromethane	ND		1.0	0.83	ug/L			04/21/20 15:31	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			04/21/20 15:31	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			04/21/20 15:31	1
Cyclohexane	ND		1.0	0.50	ug/L			04/21/20 15:31	1
Dibromochloromethane	ND		1.0	0.50	ug/L			04/21/20 15:31	1
Dibromomethane	ND		5.0	0.59	ug/L			04/21/20 15:31	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			04/21/20 15:31	1
Diisopropyl ether	ND		1.0	0.70	ug/L			04/21/20 15:31	1
Ethyl tert-butyl ether	ND		1.0	0.68	ug/L			04/21/20 15:31	1
Ethylbenzene	ND		1.0	0.50	ug/L			04/21/20 15:31	1
Freon TF	ND		1.0	0.50	ug/L			04/21/20 15:31	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			04/21/20 15:31	1
Isobutyl alcohol	ND		25	10	ug/L			04/21/20 15:31	1
Isopropylbenzene	ND		1.0	0.53	ug/L			04/21/20 15:31	1
m&p-Xylene	ND		5.0	1.6	ug/L			04/21/20 15:31	1
Methyl acetate	ND		5.0	2.5	ug/L			04/21/20 15:31	1
Methyl iodide	ND		1.0	0.90	ug/L			04/21/20 15:31	1
Methyl t-butyl ether	ND		1.0	0.74	ug/L			04/21/20 15:31	1
Methylcyclohexane	ND		1.0	0.50	ug/L			04/21/20 15:31	1
Methylene Chloride	ND		5.0	3.0	ug/L			04/21/20 15:31	1
Naphthalene	ND		1.0	1.0	ug/L			04/21/20 15:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-486566/6
Matrix: Water
Analysis Batch: 486566

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0	0.76	ug/L			04/21/20 15:31	1
n-Propylbenzene	ND		1.0	0.69	ug/L			04/21/20 15:31	1
o-Xylene	ND		5.0	0.60	ug/L			04/21/20 15:31	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			04/21/20 15:31	1
Styrene	ND		1.0	1.0	ug/L			04/21/20 15:31	1
Tert-amyl methyl ether	ND		1.0	0.60	ug/L			04/21/20 15:31	1
tert-Butyl alcohol (TBA)	ND		10	4.9	ug/L			04/21/20 15:31	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			04/21/20 15:31	1
Tetrachloroethene	ND		1.0	0.58	ug/L			04/21/20 15:31	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			04/21/20 15:31	1
Toluene	ND		1.0	0.41	ug/L			04/21/20 15:31	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			04/21/20 15:31	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			04/21/20 15:31	1
Trichloroethene	ND		1.0	0.50	ug/L			04/21/20 15:31	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			04/21/20 15:31	1
Vinyl acetate	ND		25	2.0	ug/L			04/21/20 15:31	1
Vinyl chloride	ND		1.0	0.50	ug/L			04/21/20 15:31	1
Xylenes, Total	ND		10	1.6	ug/L			04/21/20 15:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*04/21/20 15:31*	*1*
Toluene-d8	*99*		*80 - 120*		*04/21/20 15:31*	*1*
Dibromofluoromethane	*96*		*81 - 121*		*04/21/20 15:31*	*1*

Lab Sample ID: LCS 400-486566/1002
Matrix: Water
Analysis Batch: 486566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	43.1		ug/L		86	67 - 131
1,1,1-Trichloroethane	50.0	42.8		ug/L		86	68 - 130
1,1,2,2-Tetrachloroethane	50.0	44.0		ug/L		88	70 - 131
1,1,2-Trichloroethane	50.0	44.0		ug/L		88	70 - 130
1,1-Dichloroethane	50.0	43.3		ug/L		87	70 - 130
1,1-Dichloroethene	50.0	45.0		ug/L		90	63 - 134
1,1-Dichloropropene	50.0	43.4		ug/L		87	70 - 130
1,2,3-Trichlorobenzene	50.0	46.3		ug/L		93	60 - 138
1,2,3-Trichloropropane	50.0	44.7		ug/L		89	70 - 130
1,2,4-Trichlorobenzene	50.0	46.9		ug/L		94	60 - 140
1,2,4-Trimethylbenzene	50.0	41.3		ug/L		83	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	41.5		ug/L		83	54 - 135
1,2-Dibromoethane	50.0	45.0		ug/L		90	70 - 130
1,2-Dichlorobenzene	50.0	42.6		ug/L		85	67 - 130
1,2-Dichloroethane	50.0	42.9		ug/L		86	69 - 130
1,2-Dichloropropane	50.0	42.4		ug/L		85	70 - 130
1,3,5-Trimethylbenzene	50.0	42.4		ug/L		85	69 - 130
1,3-Dichlorobenzene	50.0	42.8		ug/L		86	70 - 130
1,3-Dichloropropane	50.0	43.6		ug/L		87	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-486566/1002
Matrix: Water
Analysis Batch: 486566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	50.0	41.8		ug/L		84	70 - 130
1,4-Dioxane	1000	896		ug/L		90	50 - 160
2,2-Dichloropropane	50.0	44.2		ug/L		88	52 - 135
2-Butanone	200	204		ug/L		102	61 - 145
2-Chlorotoluene	50.0	41.9		ug/L		84	70 - 130
2-Hexanone	200	203		ug/L		101	65 - 137
4-Chlorotoluene	50.0	40.7		ug/L		81	70 - 130
4-Isopropyltoluene	50.0	43.6		ug/L		87	65 - 130
4-Methyl-2-pentanone	200	198		ug/L		99	69 - 138
Acetone	200	201		ug/L		100	43 - 160
Benzene	50.0	42.2		ug/L		84	70 - 130
Bromobenzene	50.0	44.4		ug/L		89	70 - 132
Bromochloromethane	50.0	43.6		ug/L		87	70 - 130
Bromodichloromethane	50.0	40.2		ug/L		80	67 - 133
Bromoform	50.0	38.8		ug/L		78	57 - 140
Bromomethane	50.0	53.0		ug/L		106	10 - 160
Carbon disulfide	50.0	37.4		ug/L		75	61 - 137
Carbon tetrachloride	50.0	41.2		ug/L		82	61 - 137
Chlorobenzene	50.0	42.0		ug/L		84	70 - 130
Chloroethane	50.0	52.7		ug/L		105	55 - 141
Chloroform	50.0	42.1		ug/L		84	69 - 130
Chloromethane	50.0	52.2		ug/L		104	58 - 137
cis-1,2-Dichloroethene	50.0	42.5		ug/L		85	68 - 130
cis-1,3-Dichloropropene	50.0	43.7		ug/L		87	69 - 132
Cyclohexane	50.0	41.8		ug/L		84	70 - 130
Dibromochloromethane	50.0	40.4		ug/L		81	67 - 135
Dibromomethane	50.0	43.2		ug/L		86	70 - 130
Dichlorodifluoromethane	50.0	58.5		ug/L		117	41 - 146
Diisopropyl ether	50.0	47.9		ug/L		96	64 - 132
Ethyl tert-butyl ether	50.0	46.8		ug/L		94	55 - 133
Ethylbenzene	50.0	43.3		ug/L		87	70 - 130
Freon TF	50.0	51.6		ug/L		103	60 - 139
Hexachlorobutadiene	50.0	51.7		ug/L		103	53 - 140
Isobutyl alcohol	1250	1250		ug/L		100	52 - 148
Isopropylbenzene	50.0	44.0		ug/L		88	70 - 130
m&p-Xylene	50.0	42.4		ug/L		85	70 - 130
Methyl acetate	100	92.4		ug/L		92	45 - 159
Methyl iodide	50.0	52.5		ug/L		105	27 - 159
Methyl t-butyl ether	50.0	43.4		ug/L		87	66 - 130
Methylcyclohexane	50.0	42.4		ug/L		85	70 - 130
Methylene Chloride	50.0	43.1		ug/L		86	66 - 135
Naphthalene	50.0	45.4		ug/L		91	47 - 149
n-Butylbenzene	50.0	44.4		ug/L		89	67 - 130
n-Propylbenzene	50.0	43.4		ug/L		87	70 - 130
o-Xylene	50.0	42.2		ug/L		84	70 - 130
sec-Butylbenzene	50.0	42.9		ug/L		86	66 - 130
Styrene	50.0	43.2		ug/L		86	70 - 130
Tert-amyl methyl ether	50.0	47.1		ug/L		94	52 - 132
tert-Butyl alcohol (TBA)	500	451		ug/L		90	46 - 143

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-486566/1002
Matrix: Water
Analysis Batch: 486566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	50.0	40.9		ug/L		82	64 - 139
Tetrachloroethene	50.0	44.2		ug/L		88	65 - 130
Tetrahydrofuran	100	96.6		ug/L		97	59 - 145
Toluene	50.0	41.2		ug/L		82	70 - 130
trans-1,2-Dichloroethene	50.0	43.1		ug/L		86	70 - 130
trans-1,3-Dichloropropene	50.0	45.3		ug/L		91	63 - 130
Trichloroethene	50.0	44.6		ug/L		89	70 - 130
Trichlorofluoromethane	50.0	50.8		ug/L		102	65 - 138
Vinyl acetate	100	106		ug/L		106	26 - 160
Vinyl chloride	50.0	51.6		ug/L		103	59 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*78 - 118*
Toluene-d8	*99*		*80 - 120*
Dibromofluoromethane	*100*		*81 - 121*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-486120/1-A
Matrix: Solid
Analysis Batch: 486401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 486120

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
1,2,4,5-Tetrachlorobenzene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
1,2,4-Trichlorobenzene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
1,2-Dichlorobenzene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
1,3-Dichlorobenzene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
1,4-Dichlorobenzene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
1-Methylnaphthalene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
2,2'-oxybis[1-chloropropane]	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
2,3,4,6-Tetrachlorophenol	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
2,4,5-Trichlorophenol	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
2,4,6-Trichlorophenol	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
2,4-Dichlorophenol	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
2,4-Dimethylphenol	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
2,4-Dinitrophenol	ND		0.99	0.29	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
2,4-Dinitrotoluene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
2,6-Dinitrotoluene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
2-Chloronaphthalene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
2-Chlorophenol	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
2-Methylnaphthalene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
2-Methylphenol	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
2-Nitroaniline	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
2-Nitrophenol	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
3 & 4 Methylphenol	ND		0.66	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
3,3'-Dichlorobenzidine	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
3-Nitroaniline	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
4,6-Dinitro-2-methylphenol	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-486120/1-A
Matrix: Solid
Analysis Batch: 486401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 486120

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
4-Chloro-3-methylphenol	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
4-Chloroaniline	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
4-Chlorophenyl phenyl ether	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
4-Nitroaniline	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
4-Nitrophenol	ND		0.33	0.11	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Acenaphthene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Acenaphthylene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Acetophenone	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Aniline	ND		0.33	0.043	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Anthracene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Atrazine	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Azobenzene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Benzaldehyde	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Benzo[a]anthracene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Benzo[a]pyrene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Benzo[b]fluoranthene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Benzo[g,h,i]perylene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Benzo[k]fluoranthene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Benzoic acid	ND		0.99	0.35	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Benzyl alcohol	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Bis(2-chloroethoxy)methane	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Bis(2-chloroethyl)ether	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Bis(2-ethylhexyl) phthalate	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Butyl benzyl phthalate	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Caprolactam	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Carbazole	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Chrysene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Dibenz(a,h)anthracene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Dibenzofuran	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Diethyl phthalate	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Dimethyl phthalate	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Di-n-butyl phthalate	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Di-n-octyl phthalate	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Fluoranthene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Fluorene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Hexachlorobenzene	ND		0.33	0.10	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Hexachlorobutadiene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Hexachlorocyclopentadiene	ND		0.33	0.066	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Hexachloroethane	ND		0.33	0.10	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Indeno[1,2,3-cd]pyrene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Isophorone	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Naphthalene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Nitrobenzene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
N-Nitrosodimethylamine	ND		0.33	0.066	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
N-Nitrosodi-n-propylamine	ND		0.33	0.11	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
N-Nitrosodiphenylamine	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Pentachlorophenol	ND		0.66	0.066	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Phenanthrene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-486120/1-A
Matrix: Solid
Analysis Batch: 486401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 486120

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Pyrene	ND		0.33	0.033	mg/Kg		04/16/20 08:24	04/20/20 17:45	1
Pyridine	ND		0.33	0.15	mg/Kg		04/16/20 08:24	04/20/20 17:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*64*		*10 - 150*	*04/16/20 08:24*	*04/20/20 17:45*	*1*
2-Fluorophenol (Surr)	*73*		*25 - 128*	*04/16/20 08:24*	*04/20/20 17:45*	*1*
Nitrobenzene-d5 (Surr)	*67*		*15 - 136*	*04/16/20 08:24*	*04/20/20 17:45*	*1*
Phenol-d5 (Surr)	*70*		*29 - 130*	*04/16/20 08:24*	*04/20/20 17:45*	*1*
Terphenyl-d14 (Surr)	*94*		*24 - 146*	*04/16/20 08:24*	*04/20/20 17:45*	*1*

Lab Sample ID: LCS 400-486120/2-A
Matrix: Solid
Analysis Batch: 487568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486120

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	2.00	1.41		mg/Kg		70	56 - 120
1,2,4,5-Tetrachlorobenzene	2.00	1.56		mg/Kg		78	49 - 120
1,2,4-Trichlorobenzene	2.00	1.45		mg/Kg		72	48 - 120
1,2-Dichlorobenzene	2.00	1.24		mg/Kg		62	49 - 120
1,3-Dichlorobenzene	2.00	1.20		mg/Kg		60	48 - 120
1,4-Dichlorobenzene	2.00	1.17		mg/Kg		59	49 - 120
1-Methylnaphthalene	2.00	1.37		mg/Kg		68	40 - 120
2,2'-oxybis[1-chloropropane]	2.00	0.839		mg/Kg		42	34 - 120
2,3,4,6-Tetrachlorophenol	2.00	1.54		mg/Kg		77	50 - 143
2,4,5-Trichlorophenol	2.00	1.56		mg/Kg		78	53 - 133
2,4,6-Trichlorophenol	2.00	1.55		mg/Kg		77	51 - 125
2,4-Dichlorophenol	2.00	1.56		mg/Kg		78	56 - 120
2,4-Dimethylphenol	2.00	1.43		mg/Kg		71	54 - 120
2,4-Dinitrophenol	4.00	2.37		mg/Kg		59	10 - 138
2,4-Dinitrotoluene	2.00	1.44		mg/Kg		72	59 - 133
2,6-Dinitrotoluene	2.00	1.56		mg/Kg		78	57 - 123
2-Chloronaphthalene	2.00	1.40		mg/Kg		70	55 - 120
2-Chlorophenol	2.00	1.33		mg/Kg		66	52 - 120
2-Methylnaphthalene	2.00	1.40		mg/Kg		70	40 - 120
2-Methylphenol	2.00	1.25		mg/Kg		62	51 - 123
2-Nitroaniline	2.00	1.21		mg/Kg		60	55 - 129
2-Nitrophenol	2.00	1.32		mg/Kg		66	53 - 120
3 & 4 Methylphenol	2.00	1.29		mg/Kg		65	47 - 123
3,3'-Dichlorobenzidine	2.67	2.49		mg/Kg		93	42 - 120
3-Nitroaniline	2.00	1.08		mg/Kg		54	45 - 120
4,6-Dinitro-2-methylphenol	4.00	2.69		mg/Kg		67	35 - 135
4-Bromophenyl phenyl ether	2.00	2.01		mg/Kg		101	51 - 120
4-Chloro-3-methylphenol	2.00	1.46		mg/Kg		73	57 - 124
4-Chloroaniline	2.00	1.25		mg/Kg		62	34 - 120
4-Chlorophenyl phenyl ether	2.00	1.56		mg/Kg		78	56 - 120
4-Nitroaniline	2.00	0.945	*	mg/Kg		47	52 - 126
4-Nitrophenol	4.00	2.53		mg/Kg		63	38 - 133

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-486120/2-A
Matrix: Solid
Analysis Batch: 487568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486120

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	2.00	1.31		mg/Kg		65	50 - 120
Acenaphthylene	2.00	1.43		mg/Kg		72	50 - 120
Acetophenone	2.00	1.14		mg/Kg		57	52 - 120
Aniline	2.00	1.09		mg/Kg		55	36 - 120
Anthracene	2.00	1.49		mg/Kg		74	52 - 120
Atrazine	2.00	1.65		mg/Kg		82	44 - 120
Azobenzene	2.00	1.22		mg/Kg		61	50 - 120
Benzaldehyde	2.00	0.806		mg/Kg		40	20 - 120
Benzo[a]anthracene	2.00	1.49		mg/Kg		75	55 - 120
Benzo[a]pyrene	2.00	1.44		mg/Kg		72	54 - 120
Benzo[b]fluoranthene	2.00	1.43		mg/Kg		71	55 - 120
Benzo[g,h,i]perylene	2.00	1.61		mg/Kg		81	45 - 120
Benzo[k]fluoranthene	2.00	1.67		mg/Kg		84	52 - 120
Benzoic acid	7.76	4.35		mg/Kg		56	10 - 139
Benzyl alcohol	2.00	1.13		mg/Kg		56	10 - 127
Bis(2-chloroethoxy)methane	2.00	1.10		mg/Kg		55	52 - 120
Bis(2-chloroethyl)ether	2.00	0.912	*	mg/Kg		46	50 - 120
Bis(2-ethylhexyl) phthalate	2.00	1.30		mg/Kg		65	58 - 158
Butyl benzyl phthalate	2.00	1.37		mg/Kg		68	58 - 126
Caprolactam	2.00	1.25		mg/Kg		63	53 - 127
Carbazole	2.00	1.64		mg/Kg		82	61 - 132
Chrysene	2.00	1.56		mg/Kg		78	54 - 120
Dibenz(a,h)anthracene	2.00	1.51		mg/Kg		75	49 - 120
Dibenzofuran	2.00	1.39		mg/Kg		69	58 - 120
Diethyl phthalate	2.00	1.40		mg/Kg		70	56 - 128
Dimethyl phthalate	2.00	1.49		mg/Kg		75	58 - 120
Di-n-butyl phthalate	2.00	1.22	*	mg/Kg		61	64 - 122
Di-n-octyl phthalate	2.00	1.27		mg/Kg		63	57 - 137
Fluoranthene	2.00	1.39		mg/Kg		70	49 - 120
Fluorene	2.00	1.40		mg/Kg		70	47 - 120
Hexachlorobenzene	2.00	1.91		mg/Kg		96	49 - 127
Hexachlorobutadiene	2.00	1.64		mg/Kg		82	43 - 120
Hexachlorocyclopentadiene	2.00	0.903		mg/Kg		45	10 - 140
Hexachloroethane	2.00	1.12		mg/Kg		56	45 - 120
Indeno[1,2,3-cd]pyrene	2.00	1.48		mg/Kg		74	47 - 120
Isophorone	2.00	1.16		mg/Kg		58	50 - 120
Naphthalene	2.00	1.28		mg/Kg		64	41 - 120
Nitrobenzene	2.00	1.15		mg/Kg		57	50 - 120
N-Nitrosodimethylamine	2.00	1.01		mg/Kg		50	35 - 120
N-Nitrosodi-n-propylamine	2.00	1.10		mg/Kg		55	48 - 120
N-Nitrosodiphenylamine	1.98	1.71		mg/Kg		86	54 - 120
Pentachlorophenol	4.00	2.67		mg/Kg		67	32 - 131
Phenanthrene	2.00	1.48		mg/Kg		74	50 - 120
Phenol	2.00	1.10		mg/Kg		55	51 - 120
Pyrene	2.00	1.66		mg/Kg		83	54 - 120
Pyridine	4.00	1.23		mg/Kg		31	29 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-486120/2-A
Matrix: Solid
Analysis Batch: 487568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	*84*		*10 - 150*
2-Fluorophenol (Surr)	*57*		*25 - 128*
Nitrobenzene-d5 (Surr)	*63*		*15 - 136*
Phenol-d5 (Surr)	*56*		*29 - 130*
Terphenyl-d14 (Surr)	*96*		*24 - 146*

Lab Sample ID: 400-186770-1 MS
Matrix: Solid
Analysis Batch: 486401

Client Sample ID: VP-1, 2.-4
Prep Type: Total/NA
Prep Batch: 486120

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	ND	F1 F2	2.15	0.776	F1	mg/Kg	☼	36	40 - 140
1,2,4,5-Tetrachlorobenzene	ND	F1 F2	2.15	0.781	F1	mg/Kg	☼	36	40 - 140
1,2,4-Trichlorobenzene	ND	F1 F2	2.15	0.736	F1	mg/Kg	☼	34	40 - 140
1,2-Dichlorobenzene	ND	F1 F2	2.15	0.712	F1	mg/Kg	☼	33	40 - 140
1,3-Dichlorobenzene	ND	F1 F2	2.15	0.668	F1	mg/Kg	☼	31	40 - 140
1,4-Dichlorobenzene	ND	F1 F2	2.15	0.757	F1	mg/Kg	☼	35	40 - 140
1-Methylnaphthalene	ND	F1	2.15	0.784	F1	mg/Kg	☼	36	40 - 140
2,2'-oxybis[1-chloropropane]	ND	F1 F2	2.15	0.745	F1	mg/Kg	☼	35	40 - 140
2,3,4,6-Tetrachlorophenol	ND	F2	2.15	0.983		mg/Kg	☼	46	40 - 140
2,4,5-Trichlorophenol	ND	F1 F2	2.15	0.846	F1	mg/Kg	☼	39	40 - 140
2,4,6-Trichlorophenol	ND	F2	2.15	0.896		mg/Kg	☼	42	40 - 140
2,4-Dichlorophenol	ND	F2	2.15	0.893		mg/Kg	☼	42	40 - 140
2,4-Dimethylphenol	ND	F2	2.15	0.867		mg/Kg	☼	40	40 - 140
2,4-Dinitrophenol	ND		4.30	1.86		mg/Kg	☼	43	40 - 140
2,4-Dinitrotoluene	ND	F1 F2	2.15	0.807	F1	mg/Kg	☼	38	40 - 140
2,6-Dinitrotoluene	ND	F1 F2	2.15	0.835	F1	mg/Kg	☼	39	40 - 140
2-Chloronaphthalene	ND	F1 F2	2.15	0.742	F1	mg/Kg	☼	35	40 - 140
2-Chlorophenol	ND	F1 F2	2.15	0.764	F1	mg/Kg	☼	36	40 - 140
2-Methylnaphthalene	ND	F1	2.15	0.808	F1	mg/Kg	☼	38	40 - 140
2-Methylphenol	ND	F2	2.15	0.886		mg/Kg	☼	41	40 - 140
2-Nitroaniline	ND	F1	2.15	0.787	F1	mg/Kg	☼	37	40 - 140
2-Nitrophenol	ND	F1 F2	2.15	0.840	F1	mg/Kg	☼	39	40 - 140
3 & 4 Methylphenol	ND	F1 F2	2.15	0.829	F1	mg/Kg	☼	39	40 - 140
3,3'-Dichlorobenzidine	ND	F1	2.86	1.08	F1	mg/Kg	☼	38	40 - 140
3-Nitroaniline	ND	F1	2.15	0.636	F1	mg/Kg	☼	30	40 - 140
4,6-Dinitro-2-methylphenol	ND	F1 F2	4.30	1.64	F1	mg/Kg	☼	38	40 - 140
4-Bromophenyl phenyl ether	ND	F2	2.15	0.954		mg/Kg	☼	44	40 - 140
4-Chloro-3-methylphenol	ND	F1	2.15	0.781	F1	mg/Kg	☼	36	40 - 140
4-Chloroaniline	ND	F1 F2	2.15	0.594	F1	mg/Kg	☼	28	40 - 140
4-Chlorophenyl phenyl ether	ND	F1 F2	2.15	0.807	F1	mg/Kg	☼	38	40 - 140
4-Nitroaniline	ND	F1 * F2	2.15	0.736	F1	mg/Kg	☼	34	40 - 140
4-Nitrophenol	ND	F2	4.30	2.05		mg/Kg	☼	48	40 - 140
Acenaphthene	ND	F2	2.15	0.867		mg/Kg	☼	40	40 - 140
Acenaphthylene	ND	F1 F2	2.15	0.777	F1	mg/Kg	☼	36	40 - 140
Acetophenone	ND	F1 F2	2.15	0.732	F1	mg/Kg	☼	34	40 - 140
Aniline	ND	F1 F2	2.15	0.419	F1	mg/Kg	☼	20	40 - 140
Anthracene	ND	F1 F2	2.15	0.841	F1	mg/Kg	☼	39	40 - 140

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-186770-1 MS
Matrix: Solid
Analysis Batch: 486401

Client Sample ID: VP-1, 2.-4
Prep Type: Total/NA
Prep Batch: 486120

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	ND	F2	2.15	0.938		mg/Kg	☼	44	40 - 140
Azobenzene	ND		2.15	0.931		mg/Kg	☼	43	40 - 140
Benzaldehyde	ND	F1	2.15	0.510	F1	mg/Kg	☼	24	40 - 140
Benzo[a]anthracene	ND		2.15	0.949		mg/Kg	☼	44	40 - 140
Benzo[a]pyrene	ND		2.15	0.874		mg/Kg	☼	41	40 - 140
Benzo[b]fluoranthene	ND	F2	2.15	0.926		mg/Kg	☼	43	40 - 140
Benzo[g,h,i]perylene	ND		2.15	1.04		mg/Kg	☼	48	40 - 140
Benzo[k]fluoranthene	ND	F1 F2	2.15	0.826	F1	mg/Kg	☼	38	40 - 140
Benzoic acid	ND	F1 F2	8.34	4.25		mg/Kg	☼	51	40 - 140
Benzyl alcohol	ND	F1	2.15	0.523	F1	mg/Kg	☼	24	40 - 140
Bis(2-chloroethoxy)methane	ND	F1 F2	2.15	0.641	F1	mg/Kg	☼	30	40 - 140
Bis(2-chloroethyl)ether	ND	F1 *	2.15	0.751	F1	mg/Kg	☼	35	40 - 140
Bis(2-ethylhexyl) phthalate	ND		2.15	1.02		mg/Kg	☼	48	40 - 140
Butyl benzyl phthalate	ND		2.15	0.910		mg/Kg	☼	42	40 - 140
Caprolactam	ND	F1	2.15	0.749	F1	mg/Kg	☼	35	40 - 140
Carbazole	ND	F1 F2	2.15	0.809	F1	mg/Kg	☼	38	40 - 140
Chrysene	ND	F1 F2	2.15	0.836	F1	mg/Kg	☼	39	40 - 140
Dibenz(a,h)anthracene	ND		2.15	1.21		mg/Kg	☼	56	40 - 140
Dibenzofuran	ND	F1 F2	2.15	0.777	F1	mg/Kg	☼	36	40 - 140
Diethyl phthalate	ND	F2	2.15	0.908		mg/Kg	☼	42	40 - 140
Dimethyl phthalate	ND	F1 F2	2.15	0.794	F1	mg/Kg	☼	37	40 - 140
Di-n-butyl phthalate	ND	* F2	2.15	0.944		mg/Kg	☼	44	40 - 140
Di-n-octyl phthalate	ND		2.15	1.03		mg/Kg	☼	48	40 - 140
Fluoranthene	ND	F1 F2	2.15	0.817	F1	mg/Kg	☼	38	40 - 140
Fluorene	ND	F1 F2	2.15	0.848	F1	mg/Kg	☼	39	40 - 140
Hexachlorobenzene	ND	F2	2.15	0.933		mg/Kg	☼	43	40 - 140
Hexachlorobutadiene	ND	F1 F2	2.15	0.780	F1	mg/Kg	☼	36	40 - 140
Hexachlorocyclopentadiene	ND	F1 F2	2.15	0.532	F1	mg/Kg	☼	25	40 - 140
Hexachloroethane	ND	F1 F2	2.15	0.749	F1	mg/Kg	☼	35	40 - 140
Indeno[1,2,3-cd]pyrene	ND		2.15	1.18		mg/Kg	☼	55	40 - 140
Isophorone	ND	F1 F2	2.15	0.749	F1	mg/Kg	☼	35	40 - 140
Naphthalene	ND	F1 F2	2.15	0.819	F1	mg/Kg	☼	38	40 - 140
Nitrobenzene	ND	F1 F2	2.15	0.693	F1	mg/Kg	☼	32	40 - 140
N-Nitrosodimethylamine	ND	F2	2.15	1.01		mg/Kg	☼	47	40 - 140
N-Nitrosodi-n-propylamine	ND	F1 F2	2.15	0.699	F1	mg/Kg	☼	33	40 - 140
N-Nitrosodiphenylamine	ND		2.13	0.898		mg/Kg	☼	42	40 - 140
Pentachlorophenol	ND	F1 F2	4.30	1.69	F1	mg/Kg	☼	39	40 - 140
Phenanthrene	ND	F2	2.15	0.899		mg/Kg	☼	42	40 - 140
Phenol	ND	F1	2.15	0.836	F1	mg/Kg	☼	39	40 - 140
Pyrene	ND	F1	2.15	0.821	F1	mg/Kg	☼	38	40 - 140
Pyridine	ND	F1 F2	4.30	0.935	F1	mg/Kg	☼	22	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*36*		*10 - 150*
2-Fluorophenol (Surr)	*30*		*25 - 128*
Nitrobenzene-d5 (Surr)	*40*		*15 - 136*
Phenol-d5 (Surr)	*35*		*29 - 130*
Terphenyl-d14 (Surr)	*42*		*24 - 146*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-186770-1 MSD
Matrix: Solid
Analysis Batch: 486401

Client Sample ID: VP-1, 2.-4
Prep Type: Total/NA
Prep Batch: 486120

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1'-Biphenyl	ND	F1 F2	2.13	1.13	F2	mg/Kg	☼	53	40 - 140	37	30
1,2,4,5-Tetrachlorobenzene	ND	F1 F2	2.13	1.23	F2	mg/Kg	☼	58	40 - 140	45	30
1,2,4-Trichlorobenzene	ND	F1 F2	2.13	1.08	F2	mg/Kg	☼	51	40 - 140	38	30
1,2-Dichlorobenzene	ND	F1 F2	2.13	1.01	F2	mg/Kg	☼	48	40 - 140	35	30
1,3-Dichlorobenzene	ND	F1 F2	2.13	0.975	F2	mg/Kg	☼	46	40 - 140	37	30
1,4-Dichlorobenzene	ND	F1 F2	2.13	1.06	F2	mg/Kg	☼	50	40 - 140	33	30
1-Methylnaphthalene	ND	F1	2.13	1.03		mg/Kg	☼	48	40 - 140	27	30
2,2'-oxybis[1-chloropropane]	ND	F1 F2	2.13	1.02	F2	mg/Kg	☼	48	40 - 140	31	30
2,3,4,6-Tetrachlorophenol	ND	F2	2.13	1.67	F2	mg/Kg	☼	79	40 - 140	52	30
2,4,5-Trichlorophenol	ND	F1 F2	2.13	1.28	F2	mg/Kg	☼	60	40 - 140	41	30
2,4,6-Trichlorophenol	ND	F2	2.13	1.33	F2	mg/Kg	☼	63	40 - 140	39	30
2,4-Dichlorophenol	ND	F2	2.13	1.31	F2	mg/Kg	☼	61	40 - 140	38	30
2,4-Dimethylphenol	ND	F2	2.13	1.23	F2	mg/Kg	☼	58	40 - 140	35	30
2,4-Dinitrophenol	ND		4.26	2.26		mg/Kg	☼	53	40 - 140	20	30
2,4-Dinitrotoluene	ND	F1 F2	2.13	1.27	F2	mg/Kg	☼	60	40 - 140	45	30
2,6-Dinitrotoluene	ND	F1 F2	2.13	1.23	F2	mg/Kg	☼	58	40 - 140	38	30
2-Chloronaphthalene	ND	F1 F2	2.13	1.09	F2	mg/Kg	☼	51	40 - 140	38	30
2-Chlorophenol	ND	F1 F2	2.13	1.04	F2	mg/Kg	☼	49	40 - 140	31	30
2-Methylnaphthalene	ND	F1	2.13	1.05		mg/Kg	☼	49	40 - 140	26	30
2-Methylphenol	ND	F2	2.13	1.31	F2	mg/Kg	☼	61	40 - 140	38	30
2-Nitroaniline	ND	F1	2.13	0.862		mg/Kg	☼	40	40 - 140	9	30
2-Nitrophenol	ND	F1 F2	2.13	1.25	F2	mg/Kg	☼	58	40 - 140	39	30
3 & 4 Methylphenol	ND	F1 F2	2.13	1.14	F2	mg/Kg	☼	53	40 - 140	31	30
3,3'-Dichlorobenzidine	ND	F1	2.84	1.45		mg/Kg	☼	51	40 - 140	29	30
3-Nitroaniline	ND	F1	2.13	0.731	F1	mg/Kg	☼	34	40 - 140	14	30
4,6-Dinitro-2-methylphenol	ND	F1 F2	4.26	2.25	F2	mg/Kg	☼	53	40 - 140	31	30
4-Bromophenyl phenyl ether	ND	F2	2.13	1.35	F2	mg/Kg	☼	63	40 - 140	34	30
4-Chloro-3-methylphenol	ND	F1	2.13	0.909		mg/Kg	☼	43	40 - 140	15	30
4-Chloroaniline	ND	F1 F2	2.13	0.840	F1 F2	mg/Kg	☼	39	40 - 140	34	30
4-Chlorophenyl phenyl ether	ND	F1 F2	2.13	1.41	F2	mg/Kg	☼	66	40 - 140	54	30
4-Nitroaniline	ND	F1 * F2	2.13	1.15	F2	mg/Kg	☼	54	40 - 140	44	30
4-Nitrophenol	ND	F2	4.26	3.42	F2	mg/Kg	☼	80	40 - 140	50	30
Acenaphthene	ND	F2	2.13	1.27	F2	mg/Kg	☼	59	40 - 140	38	30
Acenaphthylene	ND	F1 F2	2.13	1.16	F2	mg/Kg	☼	54	40 - 140	40	30
Acetophenone	ND	F1 F2	2.13	1.06	F2	mg/Kg	☼	50	40 - 140	37	30
Aniline	ND	F1 F2	2.13	0.579	F1 F2	mg/Kg	☼	27	40 - 140	32	30
Anthracene	ND	F1 F2	2.13	1.24	F2	mg/Kg	☼	58	40 - 140	38	30
Atrazine	ND	F2	2.13	1.44	F2	mg/Kg	☼	68	40 - 140	42	30
Azobenzene	ND		2.13	0.860		mg/Kg	☼	40	40 - 140	8	30
Benzaldehyde	ND	F1	2.13	0.692	F1	mg/Kg	☼	32	40 - 140	30	30
Benzo[a]anthracene	ND		2.13	1.26		mg/Kg	☼	59	40 - 140	28	30
Benzo[a]pyrene	ND		2.13	1.17		mg/Kg	☼	55	40 - 140	29	30
Benzo[b]fluoranthene	ND	F2	2.13	1.27	F2	mg/Kg	☼	60	40 - 140	32	30
Benzo[g,h,i]perylene	ND		2.13	0.906		mg/Kg	☼	42	40 - 140	13	30
Benzo[k]fluoranthene	ND	F1 F2	2.13	1.25	F2	mg/Kg	☼	58	40 - 140	41	30
Benzoic acid	ND	F1 F2	8.27	2.71	F1 F2	mg/Kg	☼	33	40 - 140	44	30
Benzyl alcohol	ND	F1	2.13	0.652	F1	mg/Kg	☼	31	40 - 140	22	30
Bis(2-chloroethoxy)methane	ND	F1 F2	2.13	0.926	F2	mg/Kg	☼	43	40 - 140	36	30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-186770-1 MSD
Matrix: Solid
Analysis Batch: 486401

Client Sample ID: VP-1, 2.-4
Prep Type: Total/NA
Prep Batch: 486120

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-chloroethyl)ether	ND	F1 *	2.13	0.950		mg/Kg	☼	45	40 - 140	24	30
Bis(2-ethylhexyl) phthalate	ND		2.13	1.20		mg/Kg	☼	56	40 - 140	16	30
Butyl benzyl phthalate	ND		2.13	1.05		mg/Kg	☼	49	40 - 140	15	30
Caprolactam	ND	F1	2.13	0.606	F1	mg/Kg	☼	28	40 - 140	21	30
Carbazole	ND	F1 F2	2.13	1.18	F2	mg/Kg	☼	55	40 - 140	37	30
Chrysene	ND	F1 F2	2.13	1.22	F2	mg/Kg	☼	57	40 - 140	38	30
Dibenz(a,h)anthracene	ND		2.13	1.17		mg/Kg	☼	55	40 - 140	3	30
Dibenzofuran	ND	F1 F2	2.13	1.25	F2	mg/Kg	☼	59	40 - 140	47	30
Diethyl phthalate	ND	F2	2.13	1.35	F2	mg/Kg	☼	63	40 - 140	39	30
Dimethyl phthalate	ND	F1 F2	2.13	1.20	F2	mg/Kg	☼	56	40 - 140	40	30
Di-n-butyl phthalate	ND	* F2	2.13	1.29	F2	mg/Kg	☼	61	40 - 140	31	30
Di-n-octyl phthalate	ND		2.13	1.38		mg/Kg	☼	65	40 - 140	29	30
Fluoranthene	ND	F1 F2	2.13	1.40	F2	mg/Kg	☼	66	40 - 140	52	30
Fluorene	ND	F1 F2	2.13	1.37	F2	mg/Kg	☼	64	40 - 140	47	30
Hexachlorobenzene	ND	F2	2.13	1.42	F2	mg/Kg	☼	67	40 - 140	42	30
Hexachlorobutadiene	ND	F1 F2	2.13	1.17	F2	mg/Kg	☼	55	40 - 140	40	30
Hexachlorocyclopentadiene	ND	F1 F2	2.13	0.836	F1 F2	mg/Kg	☼	39	40 - 140	45	30
Hexachloroethane	ND	F1 F2	2.13	1.04	F2	mg/Kg	☼	49	40 - 140	33	30
Indeno[1,2,3-cd]pyrene	ND		2.13	1.12		mg/Kg	☼	53	40 - 140	5	30
Isophorone	ND	F1 F2	2.13	1.08	F2	mg/Kg	☼	50	40 - 140	36	30
Naphthalene	ND	F1 F2	2.13	1.18	F2	mg/Kg	☼	55	40 - 140	36	30
Nitrobenzene	ND	F1 F2	2.13	1.04	F2	mg/Kg	☼	49	40 - 140	40	30
N-Nitrosodimethylamine	ND	F2	2.13	1.40	F2	mg/Kg	☼	66	40 - 140	32	30
N-Nitrosodi-n-propylamine	ND	F1 F2	2.13	1.02	F2	mg/Kg	☼	48	40 - 140	37	30
N-Nitrosodiphenylamine	ND		2.11	1.12		mg/Kg	☼	53	40 - 140	22	30
Pentachlorophenol	ND	F1 F2	4.26	2.59	F2	mg/Kg	☼	61	40 - 140	42	30
Phenanthrene	ND	F2	2.13	1.28	F2	mg/Kg	☼	60	40 - 140	35	30
Phenol	ND	F1	2.13	1.13		mg/Kg	☼	53	40 - 140	30	30
Pyrene	ND	F1	2.13	1.07		mg/Kg	☼	50	40 - 140	27	30
Pyridine	ND	F1 F2	4.26	1.35	F1 F2	mg/Kg	☼	32	40 - 140	36	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*71*		*10 - 150*
2-Fluorophenol (Surr)	*42*		*25 - 128*
Nitrobenzene-d5 (Surr)	*57*		*15 - 136*
Phenol-d5 (Surr)	*45*		*29 - 130*
Terphenyl-d14 (Surr)	*56*		*24 - 146*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-486347/1-A
Matrix: Solid
Analysis Batch: 486488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 486347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50	0.33	mg/Kg		04/18/20 12:33	04/20/20 16:12	1
Arsenic	ND		1.0	0.57	mg/Kg		04/18/20 12:33	04/20/20 16:12	1
Barium	ND		1.0	0.17	mg/Kg		04/18/20 12:33	04/20/20 16:12	1
Cadmium	ND		0.50	0.088	mg/Kg		04/18/20 12:33	04/20/20 16:12	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 400-486347/1-A
Matrix: Solid
Analysis Batch: 486488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 486347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		1.0	0.31	mg/Kg		04/18/20 12:33	04/20/20 16:12	1
Lead	ND		1.0	0.22	mg/Kg		04/18/20 12:33	04/20/20 16:12	1
Selenium	ND		2.0	0.87	mg/Kg		04/18/20 12:33	04/20/20 16:12	1

Lab Sample ID: LCS 400-486347/2-A
Matrix: Solid
Analysis Batch: 486488

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486347

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	49.6	53.1		mg/Kg		107	80 - 120
Arsenic	99.3	99.9		mg/Kg		101	80 - 120
Barium	99.3	112		mg/Kg		113	80 - 120
Cadmium	49.6	48.5		mg/Kg		98	80 - 120
Chromium	99.3	107		mg/Kg		108	80 - 120
Lead	99.3	105		mg/Kg		105	80 - 120
Selenium	99.3	98.3		mg/Kg		99	80 - 120

Lab Sample ID: 400-186770-1 MS
Matrix: Solid
Analysis Batch: 486488

Client Sample ID: VP-1, 2.-4
Prep Type: Total/NA
Prep Batch: 486347

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		50.0	51.1		mg/Kg	☼	102	75 - 125
Arsenic	4.2		100	100		mg/Kg	☼	96	75 - 125
Barium	45		100	147		mg/Kg	☼	103	75 - 125
Cadmium	0.093	J	50.0	46.8		mg/Kg	☼	93	75 - 125
Chromium	18		100	115		mg/Kg	☼	97	75 - 125
Lead	5.6		100	111		mg/Kg	☼	105	75 - 125
Selenium	ND		100	95.1		mg/Kg	☼	95	75 - 125

Lab Sample ID: 400-186770-1 MSD
Matrix: Solid
Analysis Batch: 486488

Client Sample ID: VP-1, 2.-4
Prep Type: Total/NA
Prep Batch: 486347

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND		51.3	53.3		mg/Kg	☼	104	75 - 125	4	20
Arsenic	4.2		103	103		mg/Kg	☼	96	75 - 125	3	20
Barium	45		103	164		mg/Kg	☼	117	75 - 125	11	20
Cadmium	0.093	J	51.3	48.5		mg/Kg	☼	94	75 - 125	4	20
Chromium	18		103	120		mg/Kg	☼	99	75 - 125	4	20
Lead	5.6		103	114		mg/Kg	☼	106	75 - 125	3	20
Selenium	ND		103	99.0		mg/Kg	☼	96	75 - 125	4	20

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 400-486001/14-A
Matrix: Solid
Analysis Batch: 486166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 486001

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.013	0.0076	mg/Kg		04/16/20 08:20	04/16/20 11:50	1

Lab Sample ID: LCS 400-486001/15-A
Matrix: Solid
Analysis Batch: 486166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486001

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0642	0.0561		mg/Kg		87	80 - 120

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 400-486649/8-A
Matrix: Solid
Analysis Batch: 486727

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 486649

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		4.9	0.37	mg/Kg		04/22/20 11:23	04/22/20 15:26	1

Lab Sample ID: LCS 400-486649/9-A
Matrix: Solid
Analysis Batch: 486727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486649

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hex	92.6	76.8		mg/Kg		83	80 - 120

Lab Sample ID: LCSSRM 400-486649/7-A
Matrix: Solid
Analysis Batch: 486727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486649

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hex	195	72.6		mg/Kg		37.2	20.5 - 153.8

Lab Sample ID: MRL 400-486649/5-A
Matrix: Solid
Analysis Batch: 486727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486649

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hex	0.200	0.164		mg/L		82	50 - 150

Lab Sample ID: 400-186770-1 MS
Matrix: Solid
Analysis Batch: 486727

Client Sample ID: VP-1, 2.-4
Prep Type: Total/NA
Prep Batch: 486649

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hex	ND	F1	105	85.7	F1	mg/Kg	☼	82	85 - 115

Client: Giles Engineering Associates
Job ID: 400-186770-1
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 400-186770-1 MSD
Client Sample ID: VP-1, 2.-4
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 486727
Prep Batch: 486649

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hex	ND	F1	109	86.2	F1	mg/Kg	☼	79	85 - 115	1	25

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: VP-1, 2.-4

Lab Sample ID: 400-186770-1

Date Collected: 04/14/20 07:15

Matrix: Solid

Date Received: 04/15/20 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			486199	04/16/20 15:40	KRA	TAL PEN

Client Sample ID: VP-1, 2.-4

Lab Sample ID: 400-186770-1

Date Collected: 04/14/20 07:15

Matrix: Solid

Date Received: 04/15/20 09:07

Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.507 g	5.0 g	486336	04/18/20 08:13	AMB	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	486331	04/18/20 13:15	AMB	TAL PEN
Total/NA	Prep	3546			15.05 g	1 mL	486120	04/16/20 08:24	SHB	TAL PEN
Total/NA	Analysis	8270C		1			486401	04/20/20 14:42	VC1	TAL PEN
Total/NA	Prep	3050B			.5362 g	50 mL	486347	04/18/20 12:33	NET	TAL PEN
Total/NA	Analysis	6010B		1			486488	04/20/20 16:31	AW	TAL PEN
Total/NA	Prep	7471B			0.5308 g	40 mL	486001	04/16/20 08:20	JAP	TAL PEN
Total/NA	Analysis	7471B		1			486166	04/16/20 12:32	JAP	TAL PEN
Total/NA	Analysis	7196A		1			486662	04/22/20 10:43	DN1	TAL PEN
Total/NA	Prep	3060A			0.5361 g	50 mL	486649	04/22/20 11:23	DN1	TAL PEN
Total/NA	Analysis	7196A		1			486727	04/22/20 15:26	DN1	TAL PEN

Client Sample ID: VP-2, 4-6

Lab Sample ID: 400-186770-2

Date Collected: 04/14/20 09:00

Matrix: Solid

Date Received: 04/15/20 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			486199	04/16/20 15:40	KRA	TAL PEN

Client Sample ID: VP-2, 4-6

Lab Sample ID: 400-186770-2

Date Collected: 04/14/20 09:00

Matrix: Solid

Date Received: 04/15/20 09:07

Percent Solids: 95.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.891 g	5.0 g	486336	04/18/20 08:13	AMB	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	486331	04/18/20 13:36	AMB	TAL PEN
Total/NA	Prep	3546			15.17 g	1 mL	486120	04/16/20 08:24	SHB	TAL PEN
Total/NA	Analysis	8270C		1			486401	04/20/20 15:08	VC1	TAL PEN
Total/NA	Prep	3050B			.5408 g	50 mL	486347	04/18/20 12:33	NET	TAL PEN
Total/NA	Analysis	6010B		1			486488	04/20/20 17:00	AW	TAL PEN
Total/NA	Prep	7471B			0.5028 g	40 mL	486001	04/16/20 08:20	JAP	TAL PEN
Total/NA	Analysis	7471B		1			486166	04/16/20 12:34	JAP	TAL PEN
Total/NA	Analysis	7196A		1			486662	04/22/20 10:43	DN1	TAL PEN
Total/NA	Prep	3060A			0.5216 g	50 mL	486649	04/22/20 11:23	DN1	TAL PEN
Total/NA	Analysis	7196A		1			486727	04/22/20 15:28	DN1	TAL PEN

Client Sample ID: VP-3, 2-4 — **Lab Sample ID: 400-186770-3**
Date Collected: 04/14/20 08:15 — **Matrix: Solid**
Date Received: 04/15/20 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			486199	04/16/20 15:40	KRA	TAL PEN

Client Sample ID: VP-3, 2-4 — **Lab Sample ID: 400-186770-3**
Date Collected: 04/14/20 08:15 — **Matrix: Solid**
Date Received: 04/15/20 09:07 — **Percent Solids: 92.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.597 g	5.0 g	486336	04/18/20 08:13	AMB	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	486331	04/18/20 13:56	AMB	TAL PEN
Total/NA	Prep	3546			15.25 g	1 mL	486120	04/16/20 08:24	SHB	TAL PEN
Total/NA	Analysis	8270C		1			486401	04/20/20 15:34	VC1	TAL PEN
Total/NA	Prep	3050B			.5336 g	50 mL	486347	04/18/20 12:33	NET	TAL PEN
Total/NA	Analysis	6010B		1			486488	04/20/20 17:03	AW	TAL PEN
Total/NA	Prep	7471B			0.5666 g	40 mL	486001	04/16/20 08:20	JAP	TAL PEN
Total/NA	Analysis	7471B		1			486166	04/16/20 12:35	JAP	TAL PEN
Total/NA	Analysis	7196A		1			486662	04/22/20 10:43	DN1	TAL PEN
Total/NA	Prep	3060A			0.5216 g	50 mL	486649	04/22/20 11:23	DN1	TAL PEN
Total/NA	Analysis	7196A		1			486727	04/22/20 15:28	DN1	TAL PEN

Client Sample ID: VP-4, 0-2 — **Lab Sample ID: 400-186770-4**
Date Collected: 04/14/20 07:35 — **Matrix: Solid**
Date Received: 04/15/20 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			486199	04/16/20 15:40	KRA	TAL PEN

Client Sample ID: VP-4, 0-2 — **Lab Sample ID: 400-186770-4**
Date Collected: 04/14/20 07:35 — **Matrix: Solid**
Date Received: 04/15/20 09:07 — **Percent Solids: 82.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.135 g	5.0 g	486336	04/18/20 08:13	AMB	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	486331	04/18/20 15:18	AMB	TAL PEN
Total/NA	Prep	3546			15.73 g	1 mL	486120	04/16/20 08:24	SHB	TAL PEN
Total/NA	Analysis	8270C		1			486401	04/20/20 16:00	VC1	TAL PEN
Total/NA	Prep	3050B			.5374 g	50 mL	486347	04/18/20 12:33	NET	TAL PEN
Total/NA	Analysis	6010B		1			486488	04/20/20 17:07	AW	TAL PEN
Total/NA	Prep	7471B			0.5026 g	40 mL	486001	04/16/20 08:20	JAP	TAL PEN
Total/NA	Analysis	7471B		1			486166	04/16/20 12:37	JAP	TAL PEN
Total/NA	Analysis	7196A		1			486662	04/22/20 10:43	DN1	TAL PEN
Total/NA	Prep	3060A			0.5226 g	50 mL	486649	04/22/20 11:23	DN1	TAL PEN
Total/NA	Analysis	7196A		1			486727	04/22/20 15:28	DN1	TAL PEN

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: B-1, 8-10

Lab Sample ID: 400-186770-5

Date Collected: 04/14/20 11:45

Matrix: Solid

Date Received: 04/15/20 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			486199	04/16/20 15:40	KRA	TAL PEN

Client Sample ID: B-1, 8-10

Lab Sample ID: 400-186770-5

Date Collected: 04/14/20 11:45

Matrix: Solid

Date Received: 04/15/20 09:07

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.388 g	5.0 g	486336	04/18/20 08:13	AMB	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	486331	04/18/20 15:39	AMB	TAL PEN
Total/NA	Prep	3546			15.24 g	1 mL	486120	04/16/20 08:24	SHB	TAL PEN
Total/NA	Analysis	8270C		1			486401	04/20/20 16:26	VC1	TAL PEN
Total/NA	Prep	3050B			.5434 g	50 mL	486347	04/18/20 12:33	NET	TAL PEN
Total/NA	Analysis	6010B		1			486488	04/20/20 17:11	AW	TAL PEN
Total/NA	Prep	7471B			0.5152 g	40 mL	486001	04/16/20 08:20	JAP	TAL PEN
Total/NA	Analysis	7471B		1			486166	04/16/20 12:39	JAP	TAL PEN
Total/NA	Analysis	7196A		1			486662	04/22/20 10:43	DN1	TAL PEN
Total/NA	Prep	3060A			0.5153 g	50 mL	486649	04/22/20 11:23	DN1	TAL PEN
Total/NA	Analysis	7196A		1			486727	04/22/20 15:28	DN1	TAL PEN

Client Sample ID: B-2, 18-20

Lab Sample ID: 400-186770-6

Date Collected: 04/14/20 09:20

Matrix: Solid

Date Received: 04/15/20 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			486199	04/16/20 15:40	KRA	TAL PEN

Client Sample ID: B-2, 18-20

Lab Sample ID: 400-186770-6

Date Collected: 04/14/20 09:20

Matrix: Solid

Date Received: 04/15/20 09:07

Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.758 g	5.0 g	486336	04/18/20 08:13	AMB	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	486331	04/18/20 15:59	AMB	TAL PEN
Total/NA	Prep	3546			15.26 g	1 mL	486120	04/16/20 08:24	SHB	TAL PEN
Total/NA	Analysis	8270C		1			486401	04/20/20 16:53	VC1	TAL PEN
Total/NA	Prep	3050B			.5286 g	50 mL	486347	04/18/20 12:33	NET	TAL PEN
Total/NA	Analysis	6010B		1			486488	04/20/20 17:14	AW	TAL PEN
Total/NA	Prep	7471B			0.5308 g	40 mL	486001	04/16/20 08:20	JAP	TAL PEN
Total/NA	Analysis	7471B		1			486166	04/16/20 12:49	JAP	TAL PEN
Total/NA	Analysis	7196A		1			486662	04/22/20 10:43	DN1	TAL PEN
Total/NA	Prep	3060A			0.5201 g	50 mL	486649	04/22/20 11:23	DN1	TAL PEN
Total/NA	Analysis	7196A		1			486727	04/22/20 15:28	DN1	TAL PEN

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Client Sample ID: B-3, 11-13 — **Lab Sample ID: 400-186770-7**
Date Collected: 04/14/20 10:25 — **Matrix: Solid**
Date Received: 04/15/20 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			486199	04/16/20 15:40	KRA	TAL PEN

Client Sample ID: B-3, 11-13 — **Lab Sample ID: 400-186770-7**
Date Collected: 04/14/20 10:25 — **Matrix: Solid**
Date Received: 04/15/20 09:07 — **Percent Solids: 96.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.888 g	5.0 g	486336	04/18/20 08:13	AMB	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	486331	04/18/20 16:20	AMB	TAL PEN
Total/NA	Prep	3546			15.19 g	1 mL	486120	04/16/20 08:24	SHB	TAL PEN
Total/NA	Analysis	8270C		1			486401	04/20/20 17:19	VC1	TAL PEN
Total/NA	Prep	3050B			.5442 g	50 mL	486347	04/18/20 12:33	NET	TAL PEN
Total/NA	Analysis	6010B		1			486488	04/20/20 17:18	AW	TAL PEN
Total/NA	Prep	7471B			0.5668 g	40 mL	486001	04/16/20 08:20	JAP	TAL PEN
Total/NA	Analysis	7471B		1			486166	04/16/20 12:51	JAP	TAL PEN
Total/NA	Analysis	7196A		1			486662	04/22/20 10:43	DN1	TAL PEN
Total/NA	Prep	3060A			0.5406 g	50 mL	486649	04/22/20 11:23	DN1	TAL PEN
Total/NA	Analysis	7196A		1			486727	04/22/20 15:28	DN1	TAL PEN

Client Sample ID: TRIP BLANK — **Lab Sample ID: 400-186770-8**
Date Collected: 04/14/20 00:00 — **Matrix: Water**
Date Received: 04/15/20 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	486566	04/21/20 18:15	RS	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-486001/14-A**
Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			0.6288 g	40 mL	486001	04/16/20 08:20	JAP	TAL PEN
Total/NA	Analysis	7471B		1			486166	04/16/20 11:50	JAP	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-486120/1-A**
Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15 g	1 mL	486120	04/16/20 08:24	SHB	TAL PEN
Total/NA	Analysis	8270C		1			486401	04/20/20 17:45	VC1	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-486336/3-A**
Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 g	486336	04/18/20 08:13	AMB	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	486331	04/18/20 11:12	AMB	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-486347/1-A**
Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.5024 g	50 mL	486347	04/18/20 12:33	NET	TAL PEN
Total/NA	Analysis	6010B		1			486488	04/20/20 16:12	AW	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-486566/6**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	486566	04/21/20 15:31	RS	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-486649/8-A**
Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			0.5059 g	50 mL	486649	04/22/20 11:23	DN1	TAL PEN
Total/NA	Analysis	7196A		1			486727	04/22/20 15:26	DN1	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-486001/15-A**
Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			0.6272 g	40 mL	486001	04/16/20 08:20	JAP	TAL PEN
Total/NA	Analysis	7471B		1			486166	04/16/20 11:51	JAP	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-486120/2-A**
Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15 g	1 mL	486120	04/16/20 08:24	SHB	TAL PEN
Total/NA	Analysis	8270C		1			487568	04/30/20 12:31	VC1	TAL PEN

Lab Chronicle

Client: Giles Engineering Associates
Job ID: 400-186770-1
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-486336/1-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 g	486336	04/18/20 08:13	AMB	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	486331	04/18/20 09:34	AMB	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-486347/2-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.5036 g	50 mL	486347	04/18/20 12:33	NET	TAL PEN
Total/NA	Analysis	6010B		1			486488	04/20/20 16:16	AW	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-486566/1002
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	486566	04/21/20 14:39	RS	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-486649/9-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			0.5398 g	50 mL	486649	04/22/20 11:23	DN1	TAL PEN
Total/NA	Analysis	7196A		1			486727	04/22/20 15:26	DN1	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCSSRM 400-486649/7-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			0.2041 g	50 mL	486649	04/22/20 11:23	DN1	TAL PEN
Total/NA	Analysis	7196A		1			486727	04/22/20 15:26	DN1	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: MRL 400-486649/5-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			50 mL	50 mL	486649	04/22/20 11:23	DN1	TAL PEN
Total/NA	Analysis	7196A		1			486727	04/22/20 15:26	DN1	TAL PEN

Lab Chronicle

Client: Giles Engineering Associates
Job ID: 400-186770-1
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Client Sample ID: VP-1, 2.-4
Lab Sample ID: 400-186770-1 MS

Date Collected: 04/14/20 07:15
Matrix: Solid
Date Received: 04/15/20 09:07
Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.33 g	1 mL	486120	04/16/20 08:24	SHB	TAL PEN
Total/NA	Analysis	8270C		1			486401	04/20/20 13:50	VC1	TAL PEN
Total/NA	Prep	3050B			.5486 g	50 mL	486347	04/18/20 12:33	NET	TAL PEN
Total/NA	Analysis	6010B		1			486488	04/20/20 16:38	AW	TAL PEN
Total/NA	Prep	3060A			0.5230 g	50 mL	486649	04/22/20 11:23	DN1	TAL PEN
Total/NA	Analysis	7196A		1			486727	04/22/20 15:26	DN1	TAL PEN

Client Sample ID: VP-1, 2.-4
Lab Sample ID: 400-186770-1 MSD

Date Collected: 04/14/20 07:15
Matrix: Solid
Date Received: 04/15/20 09:07
Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.45 g	1 mL	486120	04/16/20 08:24	SHB	TAL PEN
Total/NA	Analysis	8270C		1			486401	04/20/20 14:16	VC1	TAL PEN
Total/NA	Prep	3050B			.5352 g	50 mL	486347	04/18/20 12:33	NET	TAL PEN
Total/NA	Analysis	6010B		1			486488	04/20/20 16:41	AW	TAL PEN
Total/NA	Prep	3060A			0.5024 g	50 mL	486649	04/22/20 11:23	DN1	TAL PEN
Total/NA	Analysis	7196A		1			486727	04/22/20 15:26	DN1	TAL PEN

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
6010B	Metals (ICP)	SW846	TAL PEN
7471B	Mercury (CVAA)	SW846	TAL PEN
7196A	Chromium, Hexavalent	SW846	TAL PEN
7196A	Chromium, Trivalent (Colorimetric)	SW846	TAL PEN
Moisture	Percent Moisture	EPA	TAL PEN
3050B	Preparation, Metals	SW846	TAL PEN
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	TAL PEN
3546	Microwave Extraction	SW846	TAL PEN
5030B	Purge and Trap	SW846	TAL PEN
5035	Closed System Purge and Trap	SW846	TAL PEN
7471B	Preparation, Mercury	SW846	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: Giles Engineering Associates
Job ID: 400-186770-1
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	05-06-20
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-20
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-20
West Virginia DEP	State	136	06-30-20

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Dallas/Ft. Worth
#238

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: C.K.	Lab PM: McKinney, Jamie A	Carrier Tracking No(s):	COC No: 400-93886-34059.1
Client Contact: Cade Klock	Phone: 714-279-0817	E-Mail: jamie.mckinney@testamericainc.com		Page: Page 1 of 1
Company: Giles Engineering Associates				Job #:
Address: 1965 N Main Street	Due Date Requested:			
City: Orange	TAT Requested (days): 8-day			
State, Zip: CA, 92865				
Phone: 214-358-5885(Tel) 214-358-5884(Fax)	PO #: 2E-2003011			
Email: CKlock@gilesengr.com	WO #:			
Project Name: CFA 4698/Monrovia, CA/2E-2003011	Project #: 40011728			
Site:	SSOW#:			

Analysis Requested

400-186770 COC

Preservation Codes:

A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA

M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270C - (MOD) Routine List (Lab Defined)	6010B, 7471B	7196A - Local Method	8260B - (MOD) Routine 8260	Moisture - Local Method	8260B - (MOD) Routine 8260 + oxygenates	Total Number of containers	Special Instructions/Note:
				Preservation Code:			N	N	N		N	A		
VP-1, 2-4	4-14-20	7:15	G	Solid		N	X	X	X	X	X	X		
VP-2, 4-6	↓	9:00	G	Solid		↓	X	X	X	X	X	X		
VP-3, 2-4	↓	8:15	G	Solid		↓	X	X	X	X	X	X		
VP-4, 0-2	↓	7:35	G	Solid		↓	X	X	X	X	X	X		
B-1, 8-10	↓	11:45	G	Solid		↓	X	X	X	X	X	X		
B-2, 18-20	↓	9:20	G	Solid		↓	X	X	X	X	X	X		
B-3, 11-13	↓	10:25	G	Solid		↓	X	X	X	X	X	X		
				Solid										
				Solid										
TRIP BLANK				Water						X				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ________ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: [signature]	Date/Time: 4-14-20/13:30	Company: Giles	Received by: [signature]	Date/Time: 4/15/20 907	Company: TA Ftw
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 0.8°C IR8		

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Giles Engineering Associates

Job Number: 400-186770-1

Login Number: 186770

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Perez, Trina M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-186770-2
Client Project/Site: CFA 4698/Monrovia, CA/2E-2003011

For:
Giles Engineering Associates
2626 Lombardy Lane
Suite 105
Dallas, Texas 75220

Attn: Mr. Mike Pisarik

Authorized for release by:
5/11/2020 10:25:45 AM

Jamie McKinney, Senior Project Manager
(865)291-3000
jamie.mckinney@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Giles Engineering Associates
Job ID: 400-186770-2
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 400-186770-2

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-186770-2

Comments
No additional comments.

Receipt
The samples were received on 4/15/2020 9:07 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.8º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-186770-6	B-2, 18-20	Solid	04/14/20 09:20	04/15/20 09:07	

Detection Summary

Client: Giles Engineering Associates
Job ID: 400-186770-2
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Client Sample ID: B-2, 18-20 **Lab Sample ID: 400-186770-6**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-2

Client Sample ID: B-2, 18-20
Date Collected: 04/14/20 09:20
Date Received: 04/15/20 09:07

Lab Sample ID: 400-186770-6
Matrix: Solid
Percent Solids: 97.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		5.0	0.37	mg/Kg	☼	05/06/20 16:10	05/06/20 21:37	1

QC Association Summary

Client: Giles Engineering Associates
Job ID: 400-186770-2
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

General Chemistry

Prep Batch: 488209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 400-488209/5-A	Lab Control Sample	Total/NA	Solid	3060A	

Prep Batch: 488213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-186770-6	B-2, 18-20	Total/NA	Solid	3060A	
MB 400-488213/8-A	Method Blank	Total/NA	Solid	3060A	
LCS 400-488213/9-A	Lab Control Sample	Total/NA	Solid	3060A	
400-186770-6 MS	B-2, 18-20	Total/NA	Solid	3060A	
400-186770-6 MSD	B-2, 18-20	Total/NA	Solid	3060A	

Analysis Batch: 488263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-186770-6	B-2, 18-20	Total/NA	Solid	7196A	488213
MB 400-488213/8-A	Method Blank	Total/NA	Solid	7196A	488213
LCS 400-488213/9-A	Lab Control Sample	Total/NA	Solid	7196A	488213
MRL 400-488209/5-A	Lab Control Sample	Total/NA	Solid	7196A	488209
400-186770-6 MS	B-2, 18-20	Total/NA	Solid	7196A	488213
400-186770-6 MSD	B-2, 18-20	Total/NA	Solid	7196A	488213

QC Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Job ID: 400-186770-2

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MRL 400-488209/5-A
Matrix: Solid
Analysis Batch: 488263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 488209

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium, hex			0.200	0.170		mg/L		85	50 - 150		

Lab Sample ID: MB 400-488213/8-A
Matrix: Solid
Analysis Batch: 488263

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 488213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		4.9	0.36	mg/Kg		05/06/20 16:10	05/06/20 21:30	1

Lab Sample ID: LCS 400-488213/9-A
Matrix: Solid
Analysis Batch: 488263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 488213

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium, hex			94.8	83.2		mg/Kg		88	80 - 120		

Lab Sample ID: 400-186770-6 MS
Matrix: Solid
Analysis Batch: 488263

Client Sample ID: B-2, 18-20
Prep Type: Total/NA
Prep Batch: 488213

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium, hex	ND		101	90.1		mg/Kg	☼	89	85 - 115		

Lab Sample ID: 400-186770-6 MSD
Matrix: Solid
Analysis Batch: 488263

Client Sample ID: B-2, 18-20
Prep Type: Total/NA
Prep Batch: 488213

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hex	ND		101	89.2		mg/Kg	☼	88	85 - 115	1	25

Lab Chronicle

Client: Giles Engineering Associates
Job ID: 400-186770-2
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Client Sample ID: B-2, 18-20
Lab Sample ID: 400-186770-6
Date Collected: 04/14/20 09:20
Matrix: Solid
Date Received: 04/15/20 09:07
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			0.5189 g	50 mL	488213	05/06/20 16:10	DN1	TAL PEN
Total/NA	Analysis	7196A		1			488263	05/06/20 21:37	DN1	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-488213/8-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			0.5090 g	50 mL	488213	05/06/20 16:10	DN1	TAL PEN
Total/NA	Analysis	7196A		1			488263	05/06/20 21:30	DN1	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-488213/9-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			0.5273 g	50 mL	488213	05/06/20 16:10	DN1	TAL PEN
Total/NA	Analysis	7196A		1			488263	05/06/20 21:37	DN1	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: MRL 400-488209/5-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			50 mL	50 mL	488209	05/06/20 16:10	DN1	TAL PEN
Total/NA	Analysis	7196A		1			488263	05/06/20 21:18	DN1	TAL PEN

Client Sample ID: B-2, 18-20
Lab Sample ID: 400-186770-6 MS
Date Collected: 04/14/20 09:20
Matrix: Solid
Date Received: 04/15/20 09:07
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			0.5087 g	50 mL	488213	05/06/20 16:10	DN1	TAL PEN
Total/NA	Analysis	7196A		1			488263	05/06/20 21:37	DN1	TAL PEN

Client Sample ID: B-2, 18-20
Lab Sample ID: 400-186770-6 MSD
Date Collected: 04/14/20 09:20
Matrix: Solid
Date Received: 04/15/20 09:07
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			0.5074 g	50 mL	488213	05/06/20 16:10	DN1	TAL PEN
Total/NA	Analysis	7196A		1			488263	05/06/20 21:37	DN1	TAL PEN

Laboratory References:
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: Giles Engineering Associates
Job ID: 400-186770-2
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Method	Method Description	Protocol	Laboratory
7196A	Chromium, Hexavalent	SW846	TAL PEN
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	TAL PEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: Giles Engineering Associates
Job ID: 400-186770-2
Project/Site: CFA 4698/Monrovia, CA/2E-2003011

Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	05-06-20
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-20
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-20
West Virginia DEP	State	136	06-30-20

McKinney, Jamie

From: Karen Walthall <kwalthall@gilesengr.com>
Sent: Friday, May 01, 2020 3:54 PM
To: McKinney, Jamie
Cc: Mike Pisarik
Subject: RE: Eurofins TestAmerica EDD and report files from 400-186770-1 CFA 4698/Monrovia, CA/2E-2003011

EXTERNAL EMAIL*

Hi, Jamie. Can we get a new piece of dirt from sample B-2 18-20 analyzed for hexavalent chromium, please? We would like a 3-day TAT if that is possible for the analysis.

Thanks,

Karen L. Walthall, P.G.
214-304-0430

From: Jamie McKinney [mailto:jamie.mckinney@testamericainc.com]
Sent: Thursday, April 30, 2020 1:41 PM
To: Cade Klock <cklock@gilesengr.com>; Jonathan Lewis <jlewis@gilesengr.com>; Karen Walthall <kwalthall@gilesengr.com>; Mike Pisarik <mpisarik@gilesengr.com>
Subject: Eurofins TestAmerica EDD and report files from 400-186770-1 CFA 4698/Monrovia, CA/2E-2003011

Hello,

Attached please find the EDD and report files for job 400-186770-1; CFA 4698/Monrovia, CA/2E-2003011

Please feel free to contact me if you have any questions.

Thank you.

Jamie A McKinney
Project Manager

Eurofins TestAmerica, Knoxville
Phone: 865-291-3000

E-mail: jamie.mckinney@testamericainc.com
www.eurofinsus.com | www.testamericainc.com

Reference: [140-043756]
Attachments: 2

Please let us know if we met your expectations by rating the service you received from Eurofins TestAmerica on this project by visiting our website at: Project Feedback

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Dallas/Ft. Worth #238

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: C.K.	Lab PM: McKinney, Jamie A	Carrier Tracking No(s):	COC No: 400-93886-34059.1
Client Contact: Cade Klock	Phone: 714-279-0817	E-Mail: jamie.mckinney@testamericainc.com		Page: Page 1 of 1
Company: Giles Engineering Associates				Job #:
Address: 1965 N Main Street	Due Date Requested:			
City: Orange	TAT Requested (days): 4-day			
State, Zip: CA, 92865				
Phone: 214-358-5885(Tel) 214-358-5884(Fax)	PO #: 2E-2003011			
Email: CKlock@gilesengr.com	WO #:			
Project Name: CFA 4698/Monrovia, CA/2E-2003011	Project #: 40011728			
Site:	SSOW#:			

Analysis Requested

400-186770 COC

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270C - (MOD) Routine List (Lab Defined)	6010B, 7471B	7196A - Local Method	8260B - (MOD) Routine 8260	Moisture - Local Method	8260B - (MOD) Routine 8260 + oxygenates	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N		N	A		
VP-1, 2-4	4-14-20	7:15	G	Solid		N	X	X	X	X	X	X		
VP-2, 4-6		9:00	G	Solid			X	X	X	X	X	X		
VP-3, 2-4		8:15	G	Solid			X	X	X	X	X	X		
VP-4, 0-2		7:35	G	Solid			X	X	X	X	X	X		
B-1, 8-10		11:45	G	Solid			X	X	X	X	X	X		
B-2, 18-20		9:20	G	Solid			X	X	X	X	X	X		
B-3, 11-13		10:25	G	Solid		✓	X	X	X	X	X	X		
				Solid										
				Solid										
TRIP BLANK				Water						X				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		4-14-20/1330	Giles		4/15/20 907	TAL
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.8°C IR8

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Giles Engineering Associates

Job Number: 400-186770-2

Login Number: 186770
List Number: 1
Creator: Perez, Trina M

List Source: Eurofins TestAmerica, Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX E

Soil Gas Analytical Laboratory Report and Chain-of-Custody

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
Tel: (865)291-3000

Laboratory Job ID: 140-18856-1
Client Project/Site: CFA 4698/MONROVIA, CA/2E-2003011

For:
Giles Engineering Associates
2626 Lombardy Lane
Suite 105
Dallas, Texas 75220

Attn: Mr. Mike Pisarik

Authorized for release by:
4/23/2020 11:52:53 AM

Jamie McKinney, Senior Project Manager
(865)291-3000
jamie.mckinney@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Giles Engineering Associates
Job ID: 140-18856-1
Project/Site: CFA 4698/MONROVIA, CA/2E-2003011

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Giles Engineering Associates
Project/Site: CFA 4698/MONROVIA, CA/2E-2003011

Job ID: 140-18856-1

Job ID: 140-18856-1

Laboratory: Eurofins TestAmerica, Knoxville

Narrative

Job Narrative
140-18856-1

Comments
No additional comments.

Receipt
The samples were received on 4/15/2020 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Air - GC/MS VOA
Methods TO 14A, TO 15 LL, TO-14A, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by Eurofins TestAmerica Knoxville.

Methods TO 15 LL, TO-14A, TO-14A Low, TO-15: The initial calibration verification (ICV) associated with batch 140-38980 recovered above the upper control limit for 1,2-Dichloro-1,1,2,2-tetrafluoroethane. The samples associated with this ICV were non-detects for the affected analyte; therefore, the data have been reported.

Methods TO 15 LL, TO-15: Although the BFB is flagged as outside control limits for TO-14 on batch 140-39061, the results are within limits for TO-15, which is required for this project.

Methods TO 15 LL, TO-15: The continuing calibration verification (CCV) associated with batch 140-39061 recovered above the upper control limit for 1,2-Dichloro-1,1,2,2-tetrafluoroethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

Method TO-15: The laboratory control sample (LCS) for analytical batch 140-39061 recovered outside control limits for the following analyte: 1,2-Dichloro-1,1,2,2-tetrafluoroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method TO-15: The following samples were diluted due to the abundance of non-target analytes: VP-3, 5-6 (140-18856-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Giles Engineering Associates
Project/Site: CFA 4698/MONROVIA, CA/2E-2003011

Job ID: 140-18856-1

Client Sample ID: VP-1, 5-6

Lab Sample ID: 140-18856-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.20	J	1.1	0.16	ug/m3	1		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.2		0.98	0.31	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.5	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Hexanone	0.30	J	1.6	0.24	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.99	J	4.1	0.80	ug/m3	1		TO-15	Total/NA
Acetone	5.6	J	18	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.46	J	0.64	0.18	ug/m3	1		TO-15	Total/NA
Butane	8.2		2.4	0.17	ug/m3	1		TO-15	Total/NA
Carbon disulfide	2.5		1.2	0.097	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	0.68	J	0.71	0.13	ug/m3	1		TO-15	Total/NA
Chloroform	0.84	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Cyclohexane	8.6		1.4	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	1.1		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethylbenzene	31		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.67	J	1.6	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.74	J	1.4	0.11	ug/m3	1		TO-15	Total/NA
Isopropylbenzene	0.92	J	2.0	0.29	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.1	J	3.5	1.1	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	130		0.87	0.52	ug/m3	1		TO-15	Total/NA
Naphthalene	0.61	J	2.1	0.47	ug/m3	1		TO-15	Total/NA
o-Xylene	33		0.87	0.26	ug/m3	1		TO-15	Total/NA
Styrene	0.65	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	56		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	4.2		3.8	0.45	ug/m3	1		TO-15	Total/NA
Trichloroethene	0.72	J	1.1	0.19	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6		1.1	0.14	ug/m3	1		TO-15	Total/NA

Client Sample ID: VP-2, 5-6

Lab Sample ID: 140-18856-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.33	J	1.1	0.16	ug/m3	1		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	2.9		0.98	0.31	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.8	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Hexanone	0.65	J	1.6	0.24	ug/m3	1		TO-15	Total/NA
Acetone	13	J	18	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.5		0.64	0.18	ug/m3	1		TO-15	Total/NA
Bromodichloromethane	1.3		1.3	0.29	ug/m3	1		TO-15	Total/NA
Butane	1.7	J	2.4	0.17	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.59	J	1.2	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chlorobenzene	0.28	J	0.92	0.23	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	0.41	J	0.71	0.13	ug/m3	1		TO-15	Total/NA
Chloroform	1.4		0.98	0.19	ug/m3	1		TO-15	Total/NA
Cyclohexane	12		1.4	0.14	ug/m3	1		TO-15	Total/NA
Dibromochloromethane	1.4	J	1.7	0.36	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	1.0		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethylbenzene	9.4		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	2.6		1.6	0.19	ug/m3	1		TO-15	Total/NA
Hexane	2.7		1.4	0.11	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: VP-2, 5-6 (Continued)
Lab Sample ID: 140-18856-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	0.71	J	2.0	0.29	ug/m3	1		TO-15	Total/NA
Methylene Chloride	3.0	J	3.5	1.1	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	56		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	24		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propylbenzene	0.67	J	2.0	0.28	ug/m3	1		TO-15	Total/NA
Styrene	0.72	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	27		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	43		3.8	0.45	ug/m3	1		TO-15	Total/NA
Trichloroethene	0.82	J	1.1	0.19	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.9		1.1	0.14	ug/m3	1		TO-15	Total/NA

Client Sample ID: VP-3, 5-6
Lab Sample ID: 140-18856-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	J	5.1	0.79	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.0	J	3.3	1.0	ug/m3	1		TO-15	Total/NA
Benzene	0.68	J	2.1	0.60	ug/m3	1		TO-15	Total/NA
Butane	2.5	J	7.9	0.58	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.34	J	4.2	0.32	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	0.73	J	2.4	0.44	ug/m3	1		TO-15	Total/NA
Cyclohexane	2.0	J	4.6	0.46	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	1.8	J	3.3	1.1	ug/m3	1		TO-15	Total/NA
Hexane	1.8	J	4.7	0.38	ug/m3	1		TO-15	Total/NA
Methylene Chloride	6.1	J	12	3.7	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	2.9		2.9	1.7	ug/m3	1		TO-15	Total/NA
o-Xylene	0.98	J	2.9	0.88	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	150		4.5	0.90	ug/m3	1		TO-15	Total/NA
Toluene	3.1	J	13	1.5	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	2.1	J	3.7	0.47	ug/m3	1		TO-15	Total/NA

Client Sample ID: VP-4, 5-6
Lab Sample ID: 140-18856-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.4		0.98	0.31	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.2	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Hexanone	0.31	J	1.6	0.24	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.81	J	4.1	0.80	ug/m3	1		TO-15	Total/NA
Acetone	6.9	J	18	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.43	J	0.64	0.18	ug/m3	1		TO-15	Total/NA
Butane	8.6		2.4	0.17	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.20	J	1.2	0.097	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	0.54	J	0.71	0.13	ug/m3	1		TO-15	Total/NA
Chloroform	1.4		0.98	0.19	ug/m3	1		TO-15	Total/NA
Cyclohexane	8.3		1.4	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	1.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethylbenzene	4.8		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.48	J	1.6	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.4		1.4	0.11	ug/m3	1		TO-15	Total/NA
Methylene Chloride	6.2		3.5	1.1	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	17		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	4.8		0.87	0.26	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Giles Engineering Associates
Job ID: 140-18856-1
Project/Site: CFA 4698/MONROVIA, CA/2E-2003011

Client Sample ID: VP-4, 5-6 (Continued)
Lab Sample ID: 140-18856-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Propylbenzene	0.34	J	2.0	0.28	ug/m3	1		TO-15	Total/NA
Styrene	0.27	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	41		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	3.8		3.8	0.45	ug/m3	1		TO-15	Total/NA
Trichloroethene	0.97	J	1.1	0.19	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.4		1.1	0.14	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4698/MONROVIA, CA/2E-2003011

Job ID: 140-18856-1

Client Sample ID: VP-1, 5-6

Date Collected: 04/14/20 11:00
Date Received: 04/15/20 09:20
Sample Container: Summa Canister 6L

Lab Sample ID: 140-18856-1

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.20**	**J**	1.1	0.16	ug/m3			04/16/20 23:18	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			04/16/20 23:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.56**	**J**	1.5	0.24	ug/m3			04/16/20 23:18	1
1,1,2-Trichloroethane	ND		1.1	0.28	ug/m3			04/16/20 23:18	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			04/16/20 23:18	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			04/16/20 23:18	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			04/16/20 23:18	1
1,2,4-Trimethylbenzene	**1.2**		0.98	0.31	ug/m3			04/16/20 23:18	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			04/16/20 23:18	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	*	1.4	0.22	ug/m3			04/16/20 23:18	1
1,2-Dichlorobenzene	ND		2.4	0.42	ug/m3			04/16/20 23:18	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			04/16/20 23:18	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			04/16/20 23:18	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			04/16/20 23:18	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			04/16/20 23:18	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			04/16/20 23:18	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			04/16/20 23:18	1
2-Butanone (MEK)	**1.5**	**J**	2.9	0.59	ug/m3			04/16/20 23:18	1
2-Hexanone	**0.30**	**J**	1.6	0.24	ug/m3			04/16/20 23:18	1
3-Chloropropene	ND		0.63	0.15	ug/m3			04/16/20 23:18	1
4-Methyl-2-pentanone (MIBK)	**0.99**	**J**	4.1	0.80	ug/m3			04/16/20 23:18	1
Acetone	**5.6**	**J**	18	3.3	ug/m3			04/16/20 23:18	1
Acrylonitrile	ND		4.3	0.43	ug/m3			04/16/20 23:18	1
Benzene	**0.46**	**J**	0.64	0.18	ug/m3			04/16/20 23:18	1
Benzyl chloride	ND		2.1	0.40	ug/m3			04/16/20 23:18	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			04/16/20 23:18	1
Bromoform	ND		2.1	0.50	ug/m3			04/16/20 23:18	1
Bromomethane	ND		0.78	0.12	ug/m3			04/16/20 23:18	1
Butane	**8.2**		2.4	0.17	ug/m3			04/16/20 23:18	1
Carbon disulfide	**2.5**		1.2	0.097	ug/m3			04/16/20 23:18	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			04/16/20 23:18	1
Chlorobenzene	ND		0.92	0.23	ug/m3			04/16/20 23:18	1
Chlorodifluoromethane	**0.68**	**J**	0.71	0.13	ug/m3			04/16/20 23:18	1
Chloroethane	ND		0.53	0.092	ug/m3			04/16/20 23:18	1
Chloroform	**0.84**	**J**	0.98	0.19	ug/m3			04/16/20 23:18	1
Chloromethane	ND		2.1	0.33	ug/m3			04/16/20 23:18	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			04/16/20 23:18	1
cis-1,3-Dichloropropene	ND		1.8	0.34	ug/m3			04/16/20 23:18	1
Cyclohexane	**8.6**		1.4	0.14	ug/m3			04/16/20 23:18	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			04/16/20 23:18	1
Dibromomethane	ND		2.8	0.28	ug/m3			04/16/20 23:18	1
Dichlorodifluoromethane	**1.1**		0.99	0.34	ug/m3			04/16/20 23:18	1
Ethylbenzene	**31**		0.87	0.30	ug/m3			04/16/20 23:18	1
Heptane	**0.67**	**J**	1.6	0.19	ug/m3			04/16/20 23:18	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			04/16/20 23:18	1
Hexane	**0.74**	**J**	1.4	0.11	ug/m3			04/16/20 23:18	1
Isopropylbenzene	**0.92**	**J**	2.0	0.29	ug/m3			04/16/20 23:18	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			04/16/20 23:18	1

Client Sample ID: VP-1, 5-6
Lab Sample ID: 140-18856-1

Date Collected: 04/14/20 11:00
Matrix: Air
Date Received: 04/15/20 09:20
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	**1.1**	**J**	3.5	1.1	ug/m3			04/16/20 23:18	1
m-Xylene & p-Xylene	**130**		0.87	0.52	ug/m3			04/16/20 23:18	1
Naphthalene	**0.61**	**J**	2.1	0.47	ug/m3			04/16/20 23:18	1
o-Xylene	**33**		0.87	0.26	ug/m3			04/16/20 23:18	1
Propylbenzene	ND		2.0	0.28	ug/m3			04/16/20 23:18	1
Styrene	**0.65**	**J**	0.85	0.25	ug/m3			04/16/20 23:18	1
Tetrachloroethene	**56**		1.4	0.27	ug/m3			04/16/20 23:18	1
Toluene	**4.2**		3.8	0.45	ug/m3			04/16/20 23:18	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			04/16/20 23:18	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			04/16/20 23:18	1
Trichloroethene	**0.72**	**J**	1.1	0.19	ug/m3			04/16/20 23:18	1
Trichlorofluoromethane	**1.6**		1.1	0.14	ug/m3			04/16/20 23:18	1
Vinyl chloride	ND		1.0	0.18	ug/m3			04/16/20 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*04/16/20 23:18*	*1*

Client Sample ID: VP-2, 5-6
Lab Sample ID: 140-18856-2

Date Collected: 04/14/20 11:00
Matrix: Air
Date Received: 04/15/20 09:20
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.33**	**J**	1.1	0.16	ug/m3			04/17/20 00:06	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			04/17/20 00:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**1.3**	**J**	1.5	0.24	ug/m3			04/17/20 00:06	1
1,1,2-Trichloroethane	ND		1.1	0.28	ug/m3			04/17/20 00:06	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			04/17/20 00:06	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			04/17/20 00:06	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			04/17/20 00:06	1
1,2,4-Trimethylbenzene	**2.9**		0.98	0.31	ug/m3			04/17/20 00:06	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			04/17/20 00:06	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	*	1.4	0.22	ug/m3			04/17/20 00:06	1
1,2-Dichlorobenzene	ND		2.4	0.42	ug/m3			04/17/20 00:06	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			04/17/20 00:06	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			04/17/20 00:06	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			04/17/20 00:06	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			04/17/20 00:06	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			04/17/20 00:06	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			04/17/20 00:06	1
2-Butanone (MEK)	**1.8**	**J**	2.9	0.59	ug/m3			04/17/20 00:06	1
2-Hexanone	**0.65**	**J**	1.6	0.24	ug/m3			04/17/20 00:06	1
3-Chloropropene	ND		0.63	0.15	ug/m3			04/17/20 00:06	1
4-Methyl-2-pentanone (MIBK)	ND		4.1	0.80	ug/m3			04/17/20 00:06	1
Acetone	**13**	**J**	18	3.3	ug/m3			04/17/20 00:06	1
Acrylonitrile	ND		4.3	0.43	ug/m3			04/17/20 00:06	1
Benzene	**1.5**		0.64	0.18	ug/m3			04/17/20 00:06	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/MONROVIA, CA/2E-2003011

Job ID: 140-18856-1

Client Sample ID: VP-2, 5-6

Lab Sample ID: 140-18856-2

Date Collected: 04/14/20 11:00
Matrix: Air
Date Received: 04/15/20 09:20
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl chloride	ND		2.1	0.40	ug/m3			04/17/20 00:06	1
Bromodichloromethane	**1.3**		1.3	0.29	ug/m3			04/17/20 00:06	1
Bromoform	ND		2.1	0.50	ug/m3			04/17/20 00:06	1
Bromomethane	ND		0.78	0.12	ug/m3			04/17/20 00:06	1
Butane	**1.7**	**J**	2.4	0.17	ug/m3			04/17/20 00:06	1
Carbon disulfide	**0.59**	**J**	1.2	0.097	ug/m3			04/17/20 00:06	1
Carbon tetrachloride	**0.45**	**J**	1.3	0.24	ug/m3			04/17/20 00:06	1
Chlorobenzene	**0.28**	**J**	0.92	0.23	ug/m3			04/17/20 00:06	1
Chlorodifluoromethane	**0.41**	**J**	0.71	0.13	ug/m3			04/17/20 00:06	1
Chloroethane	ND		0.53	0.092	ug/m3			04/17/20 00:06	1
Chloroform	**1.4**		0.98	0.19	ug/m3			04/17/20 00:06	1
Chloromethane	ND		2.1	0.33	ug/m3			04/17/20 00:06	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			04/17/20 00:06	1
cis-1,3-Dichloropropene	ND		1.8	0.34	ug/m3			04/17/20 00:06	1
Cyclohexane	**12**		1.4	0.14	ug/m3			04/17/20 00:06	1
Dibromochloromethane	**1.4**	**J**	1.7	0.36	ug/m3			04/17/20 00:06	1
Dibromomethane	ND		2.8	0.28	ug/m3			04/17/20 00:06	1
Dichlorodifluoromethane	**1.0**		0.99	0.34	ug/m3			04/17/20 00:06	1
Ethylbenzene	**9.4**		0.87	0.30	ug/m3			04/17/20 00:06	1
Heptane	**2.6**		1.6	0.19	ug/m3			04/17/20 00:06	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			04/17/20 00:06	1
Hexane	**2.7**		1.4	0.11	ug/m3			04/17/20 00:06	1
Isopropylbenzene	**0.71**	**J**	2.0	0.29	ug/m3			04/17/20 00:06	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			04/17/20 00:06	1
Methylene Chloride	**3.0**	**J**	3.5	1.1	ug/m3			04/17/20 00:06	1
m-Xylene & p-Xylene	**56**		0.87	0.52	ug/m3			04/17/20 00:06	1
Naphthalene	ND		2.1	0.47	ug/m3			04/17/20 00:06	1
o-Xylene	**24**		0.87	0.26	ug/m3			04/17/20 00:06	1
Propylbenzene	**0.67**	**J**	2.0	0.28	ug/m3			04/17/20 00:06	1
Styrene	**0.72**	**J**	0.85	0.25	ug/m3			04/17/20 00:06	1
Tetrachloroethene	**27**		1.4	0.27	ug/m3			04/17/20 00:06	1
Toluene	**43**		3.8	0.45	ug/m3			04/17/20 00:06	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			04/17/20 00:06	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			04/17/20 00:06	1
Trichloroethene	**0.82**	**J**	1.1	0.19	ug/m3			04/17/20 00:06	1
Trichlorofluoromethane	**1.9**		1.1	0.14	ug/m3			04/17/20 00:06	1
Vinyl chloride	ND		1.0	0.18	ug/m3			04/17/20 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*04/17/20 00:06*	*1*

Client Sample ID: VP-3, 5-6

Lab Sample ID: 140-18856-3

Date Collected: 04/14/20 11:07
Matrix: Air
Date Received: 04/15/20 09:20
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		3.6	0.55	ug/m3			04/17/20 00:53	1

Client Sample ID: VP-3, 5-6
Lab Sample ID: 140-18856-3

Date Collected: 04/14/20 11:07
Matrix: Air
Date Received: 04/15/20 09:20
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.6	1.4	ug/m3			04/17/20 00:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**1.0**	**J**	5.1	0.79	ug/m3			04/17/20 00:53	1
1,1,2-Trichloroethane	ND		3.6	0.95	ug/m3			04/17/20 00:53	1
1,1-Dichloroethane	ND		2.7	0.35	ug/m3			04/17/20 00:53	1
1,1-Dichloroethene	ND		2.6	0.45	ug/m3			04/17/20 00:53	1
1,2,4-Trichlorobenzene	ND		25	2.4	ug/m3			04/17/20 00:53	1
1,2,4-Trimethylbenzene	**1.0**	**J**	3.3	1.0	ug/m3			04/17/20 00:53	1
1,2-Dibromoethane (EDB)	ND		5.1	1.1	ug/m3			04/17/20 00:53	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	*	4.7	0.75	ug/m3			04/17/20 00:53	1
1,2-Dichlorobenzene	ND		8.0	1.4	ug/m3			04/17/20 00:53	1
1,2-Dichloroethane	ND		2.7	0.63	ug/m3			04/17/20 00:53	1
1,2-Dichloropropane	ND		3.1	0.80	ug/m3			04/17/20 00:53	1
1,3,5-Trimethylbenzene	ND		3.3	1.1	ug/m3			04/17/20 00:53	1
1,3-Butadiene	ND		2.9	0.47	ug/m3			04/17/20 00:53	1
1,3-Dichlorobenzene	ND		4.0	1.3	ug/m3			04/17/20 00:53	1
1,4-Dichlorobenzene	ND		4.0	1.3	ug/m3			04/17/20 00:53	1
2-Butanone (MEK)	ND		9.8	2.0	ug/m3			04/17/20 00:53	1
2-Hexanone	ND		5.5	0.79	ug/m3			04/17/20 00:53	1
3-Chloropropene	ND		2.1	0.50	ug/m3			04/17/20 00:53	1
4-Methyl-2-pentanone (MIBK)	ND		14	2.7	ug/m3			04/17/20 00:53	1
Acetone	ND		59	11	ug/m3			04/17/20 00:53	1
Acrylonitrile	ND		14	1.4	ug/m3			04/17/20 00:53	1
Benzene	**0.68**	**J**	2.1	0.60	ug/m3			04/17/20 00:53	1
Benzyl chloride	ND		6.9	1.3	ug/m3			04/17/20 00:53	1
Bromodichloromethane	ND		4.5	0.98	ug/m3			04/17/20 00:53	1
Bromoform	ND		6.9	1.7	ug/m3			04/17/20 00:53	1
Bromomethane	ND		2.6	0.41	ug/m3			04/17/20 00:53	1
Butane	**2.5**	**J**	7.9	0.58	ug/m3			04/17/20 00:53	1
Carbon disulfide	**0.34**	**J**	4.2	0.32	ug/m3			04/17/20 00:53	1
Carbon tetrachloride	ND		4.2	0.80	ug/m3			04/17/20 00:53	1
Chlorobenzene	ND		3.1	0.75	ug/m3			04/17/20 00:53	1
Chlorodifluoromethane	**0.73**	**J**	2.4	0.44	ug/m3			04/17/20 00:53	1
Chloroethane	ND		1.8	0.31	ug/m3			04/17/20 00:53	1
Chloroform	ND		3.3	0.62	ug/m3			04/17/20 00:53	1
Chloromethane	ND		6.9	1.1	ug/m3			04/17/20 00:53	1
cis-1,2-Dichloroethene	ND		2.6	0.79	ug/m3			04/17/20 00:53	1
cis-1,3-Dichloropropene	ND		6.1	1.1	ug/m3			04/17/20 00:53	1
Cyclohexane	**2.0**	**J**	4.6	0.46	ug/m3			04/17/20 00:53	1
Dibromochloromethane	ND		5.7	1.2	ug/m3			04/17/20 00:53	1
Dibromomethane	ND		9.5	0.95	ug/m3			04/17/20 00:53	1
Dichlorodifluoromethane	**1.8**	**J**	3.3	1.1	ug/m3			04/17/20 00:53	1
Ethylbenzene	ND		2.9	0.98	ug/m3			04/17/20 00:53	1
Heptane	ND		5.5	0.64	ug/m3			04/17/20 00:53	1
Hexachlorobutadiene	ND		36	2.8	ug/m3			04/17/20 00:53	1
Hexane	**1.8**	**J**	4.7	0.38	ug/m3			04/17/20 00:53	1
Isopropylbenzene	ND		6.6	0.98	ug/m3			04/17/20 00:53	1
Methyl tert-butyl ether	ND		12	2.0	ug/m3			04/17/20 00:53	1
Methylene Chloride	**6.1**	**J**	12	3.7	ug/m3			04/17/20 00:53	1

Client Sample ID: VP-3, 5-6
Lab Sample ID: 140-18856-3

Date Collected: 04/14/20 11:07
Matrix: Air
Date Received: 04/15/20 09:20
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	**2.9**		2.9	1.7	ug/m3			04/17/20 00:53	1
Naphthalene	ND		7.0	1.6	ug/m3			04/17/20 00:53	1
o-Xylene	**0.98**	**J**	2.9	0.88	ug/m3			04/17/20 00:53	1
Propylbenzene	ND		6.6	0.92	ug/m3			04/17/20 00:53	1
Styrene	ND		2.8	0.82	ug/m3			04/17/20 00:53	1
Tetrachloroethene	**150**		4.5	0.90	ug/m3			04/17/20 00:53	1
Toluene	**3.1**	**J**	13	1.5	ug/m3			04/17/20 00:53	1
trans-1,2-Dichloroethene	ND		2.6	0.66	ug/m3			04/17/20 00:53	1
trans-1,3-Dichloropropene	ND		3.0	0.73	ug/m3			04/17/20 00:53	1
Trichloroethene	ND		3.6	0.64	ug/m3			04/17/20 00:53	1
Trichlorofluoromethane	**2.1**	**J**	3.7	0.47	ug/m3			04/17/20 00:53	1
Vinyl chloride	ND		3.4	0.60	ug/m3			04/17/20 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*60 - 140*		*04/17/20 00:53*	*1*

Client Sample ID: VP-4, 5-6
Lab Sample ID: 140-18856-4

Date Collected: 04/14/20 11:16
Matrix: Air
Date Received: 04/15/20 09:20
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			04/17/20 01:42	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			04/17/20 01:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.56**	**J**	1.5	0.24	ug/m3			04/17/20 01:42	1
1,1,2-Trichloroethane	ND		1.1	0.28	ug/m3			04/17/20 01:42	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			04/17/20 01:42	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			04/17/20 01:42	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			04/17/20 01:42	1
1,2,4-Trimethylbenzene	**1.4**		0.98	0.31	ug/m3			04/17/20 01:42	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			04/17/20 01:42	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	*	1.4	0.22	ug/m3			04/17/20 01:42	1
1,2-Dichlorobenzene	ND		2.4	0.42	ug/m3			04/17/20 01:42	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			04/17/20 01:42	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			04/17/20 01:42	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			04/17/20 01:42	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			04/17/20 01:42	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			04/17/20 01:42	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			04/17/20 01:42	1
2-Butanone (MEK)	**1.2**	**J**	2.9	0.59	ug/m3			04/17/20 01:42	1
2-Hexanone	**0.31**	**J**	1.6	0.24	ug/m3			04/17/20 01:42	1
3-Chloropropene	ND		0.63	0.15	ug/m3			04/17/20 01:42	1
4-Methyl-2-pentanone (MIBK)	**0.81**	**J**	4.1	0.80	ug/m3			04/17/20 01:42	1
Acetone	**6.9**	**J**	18	3.3	ug/m3			04/17/20 01:42	1
Acrylonitrile	ND		4.3	0.43	ug/m3			04/17/20 01:42	1
Benzene	**0.43**	**J**	0.64	0.18	ug/m3			04/17/20 01:42	1
Benzyl chloride	ND		2.1	0.40	ug/m3			04/17/20 01:42	1

Client: Giles Engineering Associates
Project/Site: CFA 4698/MONROVIA, CA/2E-2003011

Job ID: 140-18856-1

Client Sample ID: VP-4, 5-6
Date Collected: 04/14/20 11:16
Date Received: 04/15/20 09:20
Sample Container: Summa Canister 6L

Lab Sample ID: 140-18856-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.3	0.29	ug/m3			04/17/20 01:42	1
Bromoform	ND		2.1	0.50	ug/m3			04/17/20 01:42	1
Bromomethane	ND		0.78	0.12	ug/m3			04/17/20 01:42	1
Butane	**8.6**		2.4	0.17	ug/m3			04/17/20 01:42	1
Carbon disulfide	**0.20**	**J**	1.2	0.097	ug/m3			04/17/20 01:42	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			04/17/20 01:42	1
Chlorobenzene	ND		0.92	0.23	ug/m3			04/17/20 01:42	1
Chlorodifluoromethane	**0.54**	**J**	0.71	0.13	ug/m3			04/17/20 01:42	1
Chloroethane	ND		0.53	0.092	ug/m3			04/17/20 01:42	1
Chloroform	**1.4**		0.98	0.19	ug/m3			04/17/20 01:42	1
Chloromethane	ND		2.1	0.33	ug/m3			04/17/20 01:42	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			04/17/20 01:42	1
cis-1,3-Dichloropropene	ND		1.8	0.34	ug/m3			04/17/20 01:42	1
Cyclohexane	**8.3**		1.4	0.14	ug/m3			04/17/20 01:42	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			04/17/20 01:42	1
Dibromomethane	ND		2.8	0.28	ug/m3			04/17/20 01:42	1
Dichlorodifluoromethane	**1.2**		0.99	0.34	ug/m3			04/17/20 01:42	1
Ethylbenzene	**4.8**		0.87	0.30	ug/m3			04/17/20 01:42	1
Heptane	**0.48**	**J**	1.6	0.19	ug/m3			04/17/20 01:42	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			04/17/20 01:42	1
Hexane	**1.4**		1.4	0.11	ug/m3			04/17/20 01:42	1
Isopropylbenzene	ND		2.0	0.29	ug/m3			04/17/20 01:42	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			04/17/20 01:42	1
Methylene Chloride	**6.2**		3.5	1.1	ug/m3			04/17/20 01:42	1
m-Xylene & p-Xylene	**17**		0.87	0.52	ug/m3			04/17/20 01:42	1
Naphthalene	ND		2.1	0.47	ug/m3			04/17/20 01:42	1
o-Xylene	**4.8**		0.87	0.26	ug/m3			04/17/20 01:42	1
Propylbenzene	**0.34**	**J**	2.0	0.28	ug/m3			04/17/20 01:42	1
Styrene	**0.27**	**J**	0.85	0.25	ug/m3			04/17/20 01:42	1
Tetrachloroethene	**41**		1.4	0.27	ug/m3			04/17/20 01:42	1
Toluene	**3.8**		3.8	0.45	ug/m3			04/17/20 01:42	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			04/17/20 01:42	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			04/17/20 01:42	1
Trichloroethene	**0.97**	**J**	1.1	0.19	ug/m3			04/17/20 01:42	1
Trichlorofluoromethane	**1.4**		1.1	0.14	ug/m3			04/17/20 01:42	1
Vinyl chloride	ND		1.0	0.18	ug/m3			04/17/20 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*04/17/20 01:42*	*1*

Default Detection Limits

Client: Giles Engineering Associates
Job ID: 140-18856-1
Project/Site: CFA 4698/MONROVIA, CA/2E-2003011

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	RL	MDL	Units
1,1,1-Trichloroethane	1.1	0.16	ug/m3
1,1,2,2-Tetrachloroethane	1.4	0.42	ug/m3
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5	0.24	ug/m3
1,1,2-Trichloroethane	1.1	0.28	ug/m3
1,1-Dichloroethane	0.81	0.11	ug/m3
1,1-Dichloroethene	0.79	0.13	ug/m3
1,2,4-Trichlorobenzene	7.4	0.73	ug/m3
1,2,4-Trimethylbenzene	0.98	0.31	ug/m3
1,2-Dibromoethane (EDB)	1.5	0.34	ug/m3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.4	0.22	ug/m3
1,2-Dichlorobenzene	2.4	0.42	ug/m3
1,2-Dichloroethane	0.81	0.19	ug/m3
1,2-Dichloropropane	0.92	0.24	ug/m3
1,3,5-Trimethylbenzene	0.98	0.32	ug/m3
1,3-Butadiene	0.88	0.14	ug/m3
1,3-Dichlorobenzene	1.2	0.39	ug/m3
1,4-Dichlorobenzene	1.2	0.38	ug/m3
2-Butanone (MEK)	2.9	0.59	ug/m3
2-Hexanone	1.6	0.24	ug/m3
3-Chloropropene	0.63	0.15	ug/m3
4-Methyl-2-pentanone (MIBK)	4.1	0.80	ug/m3
Acetone	18	3.3	ug/m3
Acrylonitrile	4.3	0.43	ug/m3
Benzene	0.64	0.18	ug/m3
Benzyl chloride	2.1	0.40	ug/m3
Bromodichloromethane	1.3	0.29	ug/m3
Bromoform	2.1	0.50	ug/m3
Bromomethane	0.78	0.12	ug/m3
Butane	2.4	0.17	ug/m3
Carbon disulfide	1.2	0.097	ug/m3
Carbon tetrachloride	1.3	0.24	ug/m3
Chlorobenzene	0.92	0.23	ug/m3
Chlorodifluoromethane	0.71	0.13	ug/m3
Chloroethane	0.53	0.092	ug/m3
Chloroform	0.98	0.19	ug/m3
Chloromethane	2.1	0.33	ug/m3
cis-1,2-Dichloroethene	0.79	0.24	ug/m3
cis-1,3-Dichloropropene	1.8	0.34	ug/m3
Cyclohexane	1.4	0.14	ug/m3
Dibromochloromethane	1.7	0.36	ug/m3
Dibromomethane	2.8	0.28	ug/m3
Dichlorodifluoromethane	0.99	0.34	ug/m3
Ethylbenzene	0.87	0.30	ug/m3
Heptane	1.6	0.19	ug/m3
Hexachlorobutadiene	11	0.83	ug/m3
Hexane	1.4	0.11	ug/m3
Isopropylbenzene	2.0	0.29	ug/m3
Methyl tert-butyl ether	3.6	0.61	ug/m3
Methylene Chloride	3.5	1.1	ug/m3
m-Xylene & p-Xylene	0.87	0.52	ug/m3
Naphthalene	2.1	0.47	ug/m3
o-Xylene	0.87	0.26	ug/m3
Propylbenzene	2.0	0.28	ug/m3

Default Detection Limits

Client: Giles Engineering Associates
Job ID: 140-18856-1
Project/Site: CFA 4698/MONROVIA, CA/2E-2003011

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units
Styrene	0.85	0.25	ug/m3
Tetrachloroethene	1.4	0.27	ug/m3
Toluene	3.8	0.45	ug/m3
trans-1,2-Dichloroethene	0.79	0.20	ug/m3
trans-1,3-Dichloropropene	0.91	0.22	ug/m3
Trichloroethene	1.1	0.19	ug/m3
Trichlorofluoromethane	1.1	0.14	ug/m3
Vinyl chloride	1.0	0.18	ug/m3

Surrogate Summary

Client: Giles Engineering Associates
Project/Site: CFA 4698/MONROVIA, CA/2E-2003011

Job ID: 140-18856-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		BFB
Lab Sample ID	Client Sample ID	(60-140)
140-18856-1	VP-1, 5-6	93
140-18856-2	VP-2, 5-6	93
140-18856-3	VP-3, 5-6	89
140-18856-4	VP-4, 5-6	94
LCS 140-39061/1002	Lab Control Sample	93
MB 140-39061/18	Method Blank	85

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Client: Giles Engineering Associates
Project/Site: CFA 4698/MONROVIA, CA/2E-2003011

Job ID: 140-18856-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 140-39061/18
Matrix: Air
Analysis Batch: 39061

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			04/16/20 21:42	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			04/16/20 21:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			04/16/20 21:42	1
1,1,2-Trichloroethane	ND		1.1	0.28	ug/m3			04/16/20 21:42	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			04/16/20 21:42	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			04/16/20 21:42	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			04/16/20 21:42	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			04/16/20 21:42	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			04/16/20 21:42	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			04/16/20 21:42	1
1,2-Dichlorobenzene	ND		2.4	0.42	ug/m3			04/16/20 21:42	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			04/16/20 21:42	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			04/16/20 21:42	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			04/16/20 21:42	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			04/16/20 21:42	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			04/16/20 21:42	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			04/16/20 21:42	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			04/16/20 21:42	1
2-Hexanone	ND		1.6	0.24	ug/m3			04/16/20 21:42	1
3-Chloropropene	ND		0.63	0.15	ug/m3			04/16/20 21:42	1
4-Methyl-2-pentanone (MIBK)	ND		4.1	0.80	ug/m3			04/16/20 21:42	1
Acetone	ND		18	3.3	ug/m3			04/16/20 21:42	1
Acrylonitrile	ND		4.3	0.43	ug/m3			04/16/20 21:42	1
Benzene	ND		0.64	0.18	ug/m3			04/16/20 21:42	1
Benzyl chloride	ND		2.1	0.40	ug/m3			04/16/20 21:42	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			04/16/20 21:42	1
Bromoform	ND		2.1	0.50	ug/m3			04/16/20 21:42	1
Bromomethane	ND		0.78	0.12	ug/m3			04/16/20 21:42	1
Butane	ND		2.4	0.17	ug/m3			04/16/20 21:42	1
Carbon disulfide	ND		1.2	0.097	ug/m3			04/16/20 21:42	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			04/16/20 21:42	1
Chlorobenzene	ND		0.92	0.23	ug/m3			04/16/20 21:42	1
Chlorodifluoromethane	ND		0.71	0.13	ug/m3			04/16/20 21:42	1
Chloroethane	ND		0.53	0.092	ug/m3			04/16/20 21:42	1
Chloroform	ND		0.98	0.19	ug/m3			04/16/20 21:42	1
Chloromethane	ND		2.1	0.33	ug/m3			04/16/20 21:42	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			04/16/20 21:42	1
cis-1,3-Dichloropropene	ND		1.8	0.34	ug/m3			04/16/20 21:42	1
Cyclohexane	ND		1.4	0.14	ug/m3			04/16/20 21:42	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			04/16/20 21:42	1
Dibromomethane	ND		2.8	0.28	ug/m3			04/16/20 21:42	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			04/16/20 21:42	1
Ethylbenzene	ND		0.87	0.30	ug/m3			04/16/20 21:42	1
Heptane	ND		1.6	0.19	ug/m3			04/16/20 21:42	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			04/16/20 21:42	1
Hexane	ND		1.4	0.11	ug/m3			04/16/20 21:42	1
Isopropylbenzene	ND		2.0	0.29	ug/m3			04/16/20 21:42	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			04/16/20 21:42	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-39061/18
Matrix: Air
Analysis Batch: 39061

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		3.5	1.1	ug/m3			04/16/20 21:42	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			04/16/20 21:42	1
Naphthalene	ND		2.1	0.47	ug/m3			04/16/20 21:42	1
o-Xylene	ND		0.87	0.26	ug/m3			04/16/20 21:42	1
Propylbenzene	ND		2.0	0.28	ug/m3			04/16/20 21:42	1
Styrene	ND		0.85	0.25	ug/m3			04/16/20 21:42	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			04/16/20 21:42	1
Toluene	ND		3.8	0.45	ug/m3			04/16/20 21:42	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			04/16/20 21:42	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			04/16/20 21:42	1
Trichloroethene	ND		1.1	0.19	ug/m3			04/16/20 21:42	1
Trichlorofluoromethane	ND		1.1	0.14	ug/m3			04/16/20 21:42	1
Vinyl chloride	ND		1.0	0.18	ug/m3			04/16/20 21:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*60 - 140*		*04/16/20 21:42*	*1*

Lab Sample ID: LCS 140-39061/1002
Matrix: Air
Analysis Batch: 39061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	8.73	8.35		ug/m3		96	70 - 130
1,1,2,2-Tetrachloroethane	11.0	9.68		ug/m3		88	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	12.3	10.7		ug/m3		88	70 - 130
1,1,2-Trichloroethane	8.73	7.45		ug/m3		85	70 - 130
1,1-Dichloroethane	6.48	6.19		ug/m3		96	70 - 130
1,1-Dichloroethene	6.34	5.10		ug/m3		80	70 - 130
1,2,4-Trichlorobenzene	11.9	11.0		ug/m3		93	60 - 140
1,2,4-Trimethylbenzene	7.87	6.34		ug/m3		81	70 - 130
1,2-Dibromoethane (EDB)	12.3	10.2		ug/m3		83	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	11.2	18.3	*	ug/m3		164	60 - 140
1,2-Dichlorobenzene	9.62	8.47		ug/m3		88	70 - 130
1,2-Dichloroethane	6.48	6.60		ug/m3		102	70 - 130
1,2-Dichloropropane	7.39	6.48		ug/m3		88	70 - 130
1,3,5-Trimethylbenzene	7.87	6.31		ug/m3		80	70 - 130
1,3-Butadiene	3.54	3.19		ug/m3		90	60 - 140
1,3-Dichlorobenzene	9.62	9.23		ug/m3		96	70 - 130
1,4-Dichlorobenzene	9.62	8.46		ug/m3		88	70 - 130
2-Butanone (MEK)	4.72	3.63		ug/m3		77	60 - 140
2-Hexanone	6.56	5.40		ug/m3		82	60 - 140
3-Chloropropene	5.01	5.04		ug/m3		101	60 - 140
4-Methyl-2-pentanone (MIBK)	6.55	6.09		ug/m3		93	60 - 140
Acetone	11.4	8.23		ug/m3		72	60 - 140
Acrylonitrile	3.47	3.07		ug/m3		88	60 - 140
Benzene	5.11	4.50		ug/m3		88	70 - 130
Benzyl chloride	8.28	9.04		ug/m3		109	70 - 130

Client: Giles Engineering Associates
Project/Site: CFA 4698/MONROVIA, CA/2E-2003011

Job ID: 140-18856-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-39061/1002
Matrix: Air
Analysis Batch: 39061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	10.7	9.97		ug/m3		93	70 - 130
Bromoform	16.5	16.0		ug/m3		97	60 - 140
Bromomethane	6.21	5.35		ug/m3		86	70 - 130
Butane	3.80	3.80		ug/m3		100	60 - 140
Carbon disulfide	4.98	4.58		ug/m3		92	70 - 130
Carbon tetrachloride	10.1	9.23		ug/m3		92	70 - 130
Chlorobenzene	7.37	5.92		ug/m3		80	70 - 130
Chlorodifluoromethane	5.66	5.91		ug/m3		104	60 - 140
Chloroethane	4.22	3.70		ug/m3		88	70 - 130
Chloroform	7.81	7.44		ug/m3		95	70 - 130
Chloromethane	3.30	3.26		ug/m3		99	60 - 140
cis-1,2-Dichloroethene	6.34	5.43		ug/m3		86	70 - 130
cis-1,3-Dichloropropene	7.26	6.70		ug/m3		92	70 - 130
Cyclohexane	5.51	4.80		ug/m3		87	70 - 130
Dibromochloromethane	13.6	12.2		ug/m3		89	70 - 130
Dibromomethane	11.4	9.91		ug/m3		87	70 - 130
Dichlorodifluoromethane	7.91	9.12		ug/m3		115	60 - 140
Ethylbenzene	6.95	5.60		ug/m3		81	70 - 130
Heptane	6.56	5.74		ug/m3		87	70 - 130
Hexachlorobutadiene	17.1	15.8		ug/m3		93	60 - 140
Hexane	5.64	5.31		ug/m3		94	70 - 130
Isopropylbenzene	7.87	6.36		ug/m3		81	70 - 130
Methyl tert-butyl ether	5.77	5.30		ug/m3		92	60 - 140
Methylene Chloride	5.56	5.11		ug/m3		92	70 - 130
m-Xylene & p-Xylene	13.9	11.3		ug/m3		81	70 - 130
Naphthalene	8.39	7.54		ug/m3		90	60 - 140
o-Xylene	6.95	5.57		ug/m3		80	70 - 130
Propylbenzene	7.87	6.74		ug/m3		86	70 - 130
Styrene	6.82	5.47		ug/m3		80	70 - 130
Tetrachloroethene	10.9	9.73		ug/m3		90	70 - 130
Toluene	6.03	4.87		ug/m3		81	70 - 130
trans-1,2-Dichloroethene	6.34	5.54		ug/m3		87	70 - 130
trans-1,3-Dichloropropene	7.26	6.25		ug/m3		86	70 - 130
Trichloroethene	8.60	7.29		ug/m3		85	70 - 130
Trichlorofluoromethane	8.99	8.49		ug/m3		94	60 - 140
Vinyl chloride	4.09	3.54		ug/m3		87	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*

QC Association Summary

Client: Giles Engineering Associates
Project/Site: CFA 4698/MONROVIA, CA/2E-2003011

Job ID: 140-18856-1

Air - GC/MS VOA

Analysis Batch: 39061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-18856-1	VP-1, 5-6	Total/NA	Air	TO-15	
140-18856-2	VP-2, 5-6	Total/NA	Air	TO-15	
140-18856-3	VP-3, 5-6	Total/NA	Air	TO-15	
140-18856-4	VP-4, 5-6	Total/NA	Air	TO-15	
MB 140-39061/18	Method Blank	Total/NA	Air	TO-15	
LCS 140-39061/1002	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4698/MONROVIA, CA/2E-2003011

Job ID: 140-18856-1

Client Sample ID: VP-1, 5-6
Date Collected: 04/14/20 11:00
Date Received: 04/15/20 09:20

Lab Sample ID: 140-18856-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	39061	04/16/20 23:18	S1K	TAL KNX
	Instrument ID: MR									

Client Sample ID: VP-2, 5-6
Date Collected: 04/14/20 11:00
Date Received: 04/15/20 09:20

Lab Sample ID: 140-18856-2
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	39061	04/17/20 00:06	S1K	TAL KNX
	Instrument ID: MR									

Client Sample ID: VP-3, 5-6
Date Collected: 04/14/20 11:07
Date Received: 04/15/20 09:20

Lab Sample ID: 140-18856-3
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	60 mL	500 mL	39061	04/17/20 00:53	S1K	TAL KNX
	Instrument ID: MR									

Client Sample ID: VP-4, 5-6
Date Collected: 04/14/20 11:16
Date Received: 04/15/20 09:20

Lab Sample ID: 140-18856-4
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	39061	04/17/20 01:42	S1K	TAL KNX
	Instrument ID: MR									

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 140-39061/18
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	39061	04/16/20 21:42	S1K	TAL KNX
	Instrument ID: MR									

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 140-39061/1002
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	500 mL	500 mL	39061	04/16/20 08:45	S1K	TAL KNX
	Instrument ID: MR									

Laboratory References:
TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Method Summary

Client: Giles Engineering Associates
Project/Site: CFA 4698/MONROVIA, CA/2E-2003011

Job ID: 140-18856-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: Giles Engineering Associates
Job ID: 140-18856-1
Project/Site: CFA 4698/MONROVIA, CA/2E-2003011

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
140-18856-1	VP-1, 5-6	Air	04/14/20 11:00	04/15/20 09:20	Air Canister (6-Liter) #10711
140-18856-2	VP-2, 5-6	Air	04/14/20 11:00	04/15/20 09:20	Air Canister (6-Liter) #12114
140-18856-3	VP-3, 5-6	Air	04/14/20 11:07	04/15/20 09:20	Air Canister (6-Liter) #10113
140-18856-4	VP-4, 5-6	Air	04/14/20 11:16	04/15/20 09:20	Air Canister (6-Liter) #10967

Eurofins TestAmerica, Knoxville
5815 Middlebrook Pike

Knoxville, TN 37921-5947
phone 865.291.3000 fax 865.584.4315

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

140-18856 Chain of Custody

TestAmerica Laboratories, Inc. d/b/a Eurofins ... a

Client Contact Information	Client Project Manager: Cade Klock	Samples Collected By: C. Klock	COC No:
Company Name: Giles	Phone:		1 of 1 COCs
Address: 1965 N. Main Street	Email:	Jamie McKinney	
City/State/Zip Orange, CA 92865			For Lab Use Only:
Phone: (714) 279-0817	Site Contact:		Walk-in Client:
FAX: (714) 279-9687	Tel/Fax		Lab Sampling:
Project Name: CFA 4698/Monrovia, CA/2E-2003011	Analysis Turnaround Time		Job / SDG No.:
Site/Location: Monrovia, CA	Standard (Specific): 8-day		(See below for Add'l Items)
P O # 2E-2003011	Rush (Specifiy):		

Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
VP-1, 5-6	4-14-20	10:25	4-14-20	11:08	-30	-5	10547	10711	X														
VP-2, 5-6	↓	10:30	↓	11:00	-30	-4	7545	12114	X														
VP-3, 5-6	↓	10:37	↓	11:07	-28	-3	11099	10113	X														
VP-4, 5-6	↓	10:46	↓	11:16	-31	-5	11896	10967	X														

Temperature (Fahrenheit)	Interior	Ambient
Start		
Stop		

Pressure (inches of Hg)	Interior	Ambient
Start		
Stop		

Received @ ambient 7.1/4 box, FedEx Po trK# 1738 7781 9214
No Custody seal
KW 4/15/20

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time: 4-14-20/12:30	Samples Received by: ETA 4/15/20 KL 4/15/20 10:15 0920
Samples Relinquished by:	Date / Time:	Received by:
Relinquished by:	Date / Time:	Received by: 4 coolers, 4KR

Lab Use Only: **Shipper Name:** **Opened by:** **Condition:**

Form No. CA-C-WI-003, Rev. 2.13, dated 4/10/2019

4/23/2020

Loc: 140

EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST **Log In Number:** **18856**

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	/			☐ **Containers, Broken**	
2. Were ambient air containers received intact?			/	☑ Checked in lab	
3. The coolers/containers custody seal if present, is it intact?			/	☐ Yes ☐ NA	
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID :_____ Correction factor: _____			/	☐ **Cooler Out of Temp, Client Contacted, Proceed/Cancel** ☐ **Cooler Out of Temp, Same Day Receipt**	
5. Were all of the sample containers received intact?	/			☐ **Containers, Broken**	
6. Were samples received in appropriate containers?	/			☐ **Containers, Improper; Client Contacted; Proceed/Cancel**	
7. Do sample container labels match COC? (IDs, Dates, Times)	/			☐ **COC & Samples Do Not Match** ☐ **COC Incorrect/Incomplete** ☐ **COC Not Received**	
8. Were all of the samples listed on the COC received?	/			☐ **Sample Received, Not on COC** ☐ **Sample on COC, Not Received**	
9. Is the date/time of sample collection noted?	/			☐ **COC; No Date/Time; Client Contacted**	
10. Was the sampler identified on the COC?	/			☐ **Sampler Not Listed on COC**	**Labeling Verified by:** **Date:**
11. Is the client and project name/# identified?	/			☐ **COC Incorrect/Incomplete**	
12. Are tests/parameters listed for each sample?	/			☐ **COC No tests on COC**	**pH test strip lot number:**
13. Is the matrix of the samples noted?	/			☐ **COC Incorrect/Incomplete**	
14. Was COC relinquished? (Signed/Dated/Timed)	/			☐ **COC Incorrect/Incomplete**	
15. Were samples received within holding time?	/			☐ **Holding Time - Receipt**	
16. Were samples received with correct chemical preservative (excluding Encore)?			/	☐ **pH Adjusted, pH Included (See box 16A)** ☐ **Incorrect Preservative**	
17. Were VOA samples received without headspace?			/	☐ **Headspace (VOA only)**	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____			/	☐ **Residual Chlorine**	
19. For 1613B water samples is pH<9?			/	☐ If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?			/	☐ Project missing info	

	Box 16A: pH Preservation	Box 18A: Residual Chlorine
Preservative:		
Lot Number:		
Exp Date:		
Analyst:		
Date:		
Time:		

Project #: 14002587 PM Instructions: _____

Sample Receiving Associate: _____ Date: 4/15/20

QA026R32.doc, 062719

TestAmerica Knoxville - Air Canister Initial Pressure Check

Gauge ID: G5
Date: 4/15/2020

Analyst	Sample ID	Asset #	Cleaning Job	Cert	Size (L)	Pressure @ Receipt (-in Hg or +psig)	Time	Comments
BRS	140-18856-a-1	10711	18699	B	6	-3.0	10:53	
BRS	140-18856-a-2	12114	18699	B	6	-5.8	10:54	
BRS	140-18856-a-3	10113	18699	B	6	-4.4	10:55	
BRS	140-18856-a-4	10967	18699	B	6	-5.1	10:56	

□ Receiving –Air Can –Calve Open (NCM #__________)
□ Air - Can P -24 to -25 " - Flow Contr. Works (NCM#_________)
□ Air - Can P -24 to -25 " - Flow Contr. Faulty (NCM#_________)
□ Air - Can P Out -26" - Flow Contr. Works (NCM#___________)
□ Air - Can P Out -26" - Flow Contr. Faulty (NCM#___________)
□ Air - Can P Low -24 to -25 " - Grab Sample (NCM#__________)
□ Air - Can P Low -26 "- Grab Sample (NCM#____________)

Geotechnical, Environmental & Construction Materials Consultants

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