



Soil Gas and Indoor Air Sampling Report

City Terrace
East Los Angeles, California

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County of Los Angeles

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Executive Summary

Roux Associates, Inc. (Roux) has prepared this *Soil Gas and Indoor Air Sampling Report* (Report) on behalf of the County of Los Angeles (County) to summarize the findings of the investigation of soil gas, indoor air, and ambient/outdoor air in a portion of the City Terrace community (Community) in East Los Angeles, Los Angeles County, California (Figures 1 and 2).

Based on available historical aerial photos and resident interviews, the Community has been developed as a residential neighborhood since at least 1948. The San Bernardino (Interstate 10) Freeway and the Long Beach (Interstate 710) Freeway are each located approximately 0.20 miles from the Community at their closest approach. City Terrace Elementary School is located directly adjacent to the Community at the corner of North Eastern Avenue and East City Terrace Drive (Figure 2). Two former historical landfills, the former Cogen Landfill and the former Blanchard Landfill, both of which ceased operations in 1958, are located to the southeast of the Community.

Subsurface soil gas and ambient/outdoor air conditions at 29 properties (comprised of 27 residential properties and two samples in rights of way) within the Community were previously investigated by consultant Citadel EHS (Citadel) in 2021 on behalf of the County. Elevated concentrations of volatile organic compounds (VOCs), particularly benzene, were identified in soil gas at the residential properties.

Considering the elevated detections of benzene in soil gas identified by Citadel, the County contracted Roux to investigate soil gas, indoor air, and ambient/outdoor air conditions at the previously-sampled residential properties. Of the 27 residential properties previously sampled, 23 residents agreed to have the additional sampling performed in early 2023. A total of 46 soil borings were advanced at the 23 residential properties for the installation of soil gas probes. Roux collected 51 soil gas samples, 52 indoor air samples, and 25 ambient/outdoor air samples during the course of the investigation. Roux also completed resident- and inspection-based surveys of each building and home-use for the 23 residential properties. The surveys were designed to support evaluation of vapor intrusion and included information regarding building construction details and identification of potential indoor air sources of VOCs.

VOCs and methane were detected across the Community in soil gas, indoor air, and ambient/outdoor air. In particular, benzene exceeded residential screening levels (SLs) across nearly all of the samples collected. While other VOCs and methane were detected, there were far fewer screening level exceedances, and detections were typically isolated and not indicative of a significant release. A summary of the results and conclusions is provided below.

- **Soil Gas:** Benzene was detected in nearly all of the soil gas samples across the Community, 47 of the 51 samples, with 32 detections exceeding the SL. Although many of the detections exceeded the SL, the concentrations were relatively low (compared to known conditions in the greater Los Angeles area) and were consistent throughout the Community, with a maximum of 15 $\mu\text{g}/\text{m}^3$. Based on the spatial distribution and lack of significantly elevated concentrations in any particular area of the Community, the benzene impacts do not appear to be correlated with any particular local location(s), either within the Community or from an off-site source (such as the nearby closed landfills). The distribution and concentrations of benzene and other fuel-related compounds in the subsurface do not appear to be associated with a subsurface source, and may be the result of a

build-up in the soil caused by aerial deposition over decades of heavy regional traffic-based emissions.

- **Indoor Air:** Benzene was detected in all indoor air samples, with all concentrations exceeding the corresponding SL. Concentrations of benzene were generally consistent across the Community, ranging from 0.39 to 4.8 $\mu\text{g}/\text{m}^3$, with the majority below 1.1 $\mu\text{g}/\text{m}^3$ (the maximum concentration of benzene detected in ambient/outdoor air; further discussed below). Similar to the soil gas results, based on the spatial distribution and lack of significantly elevated concentrations in a particular area of the Community, the benzene impacts do not appear to be correlated with any particular location(s), either within the Community or from a nearby off-site source.
 - **Limited Human Health Screening Evaluation (HHSE):** Roux prepared an HHSE that incorporates results of soil gas, indoor air, and ambient/outdoor air investigation. The objective of the HHSE is to provide a conservative evaluation of the potential risk from exposure to chemicals detected in the indoor air within residential properties of the Community. All residential properties have an estimated cancer risk which exceeds the California Environmental Protection Agency (CalEPA), Office of Environmental Health Hazard Assessment (OEHHA) cancer risk threshold of one additional or excess case of cancer in one million (1E-06).
- **Ambient/Outdoor Air:** Benzene was detected in all ambient/outdoor air samples, with all concentrations exceeding the SL for residential air. Concentrations of benzene were very consistent across the Community, ranging from 0.40 to 1.1 $\mu\text{g}/\text{m}^3$. Similar to the soil gas and indoor air results, the spatial distribution and lack of significantly elevated concentrations in a particular area of the Community suggest that the benzene impacts are not associated with a particular point source, either in the Community or offsite in the vicinity of the Community. Based on the strong similarities between concentrations of benzene in indoor and ambient/outdoor air, concentrations of benzene in indoor air appear to be primarily caused by benzene in ambient/outdoor air.
 - **Typical Ambient/Outdoor Air Benzene Concentrations in Los Angeles:** The benzene concentrations detected in ambient/outdoor air in the Community are consistent with benzene levels experienced throughout the greater Los Angeles area. Based on a review of South Coast Air Quality Management District (SCAQMD) data from 2018 to 2019, typical daily benzene concentrations in Los Angeles Air Basin ambient/outdoor air range from 0.73 to 1.25 $\mu\text{g}/\text{m}^3$, with a Basin-wide average of 0.92 $\mu\text{g}/\text{m}^3$.
- **Vapor Intrusion:** Roux performed an analysis of soil gas, indoor air, and ambient/outdoor air data to determine whether vapor intrusion may be contributing to VOC concentrations in indoor air. Several VOCs other than benzene were observed in soil gas samples during the investigation. Some of these VOCs were not identified consistently in ambient/outdoor air samples from the Community. Therefore, if significant vapor intrusion was occurring, some of the VOCs encountered in soil gas but not ambient/outdoor air would have been detected in indoor air. This was not the case, and no evidence of vapor intrusion was identified in any of the homes within the Community.

1. Introduction

Roux has prepared this *Soil Gas and Indoor Air Sampling Report* (Report) on behalf of the County to summarize the findings of the investigation of soil gas, indoor air, and ambient/outdoor air in a portion of the City Terrace Community (Figures 1 and 2). Subsurface soil gas and ambient/outdoor air conditions at 29 properties (comprised of 27 residential properties and two samples in rights of way) in the Community that were previously investigated by Citadel in 2021. Elevated concentrations of VOCs, particularly benzene, were identified in soil gas at the properties.

1.1 Objectives

Considering elevated detections of VOCs, particularly benzene, in soil gas identified by Citadel, the County contracted Roux to investigate soil gas, indoor air, and ambient/outdoor air conditions at each of the 27 previously samples residential properties within the City Terrace community (sampling was not performed in the two rights of way locations). Specifically, soil gas, indoor air, and ambient/outdoor air samples were collected and analyzed for the presence of VOCs and methane.

1.2 Scope of Work

The scope of work completed by Roux for this investigation is summarized below. Investigation activities included soil gas probe installation and sampling in the front and back yards of each residential property, indoor air sampling inside the residential properties, ambient/outdoor air sampling adjacent to each residential property, and an evaluation of building construction and possible in-home chemical use, which could impact indoor air concentrations of VOCs. The areas of investigation and sampling locations within the Community are shown in Figure 3.

The scope of work for this investigation included:

- Pre-field activities
 - Preparation of a Site-Specific Health and Safety Plan (HASP);
 - Notification of Underground Service Alert of Southern California at least 72 hours before fieldwork began; and
 - Conduct geophysical surveys to screen proposed boring locations for buried utility lines.
- Field activities
 - Advancement of 46 soil borings at 23 residential properties via hand auger to a terminal depth of 5.5 feet below ground surface (bgs);
 - Installation of soil gas probes at the 46 soil borings at a depth of 5 feet bgs;
 - Collection of 46 primary, and five duplicate, soil gas samples;
 - Collection of 46 primary and six duplicate indoor air samples;
 - Collection of 23 primary and two duplicate ambient/outdoor air samples; and
 - Collection of surveys regarding building and home-use details from 23 residential properties.
- Reporting
 - Tabulation and analysis of data; and
 - Preparation of this Report

2. Background

2.1 Site Description

The Community is located within an unincorporated area of East Los Angeles, Los Angeles County, California (Figure 1). The Community is zoned for one- or two-family homes, otherwise known as low/medium density residential in the *East Los Angeles Community Plan* (Los Angeles County Department of Regional Planning, 2014). The Community includes approximately 150 residential parcels, 23 of which were included in this investigation. The Community is bounded to the north by East City Terrace Drive, to the west by North Eastern Avenue, to the south by Hauck Street, and to the east by Rollins Drive/Sheriff Road.

2.1.1 Nearby Features

The San Bernardino (Interstate 10) Freeway and the Long Beach (Interstate 710) Freeway are each located approximately 0.20 miles from the Community at their closest approach. City Terrace Elementary School is located directly adjacent to the Community at the corner of North Eastern Avenue and East City Terrace Drive (Figure 2).

Several facilities operated by the County of Los Angeles (County), including Los Angeles County Fire Department (LACoFD) Station 1, the LACoFD Headquarters, Los Angeles County Sheriff Department (LACoSD) Fleet Management, LACoSD Headquarters, Edmund D. Edelman Children's Courthouse, and Los Angeles County Internal Services Department Building (LACoISD) are located in the immediate vicinity of the Community (Figure 2). There are two nearby gasoline service stations (Chevron and Exxon Mobil) located approximately 1,000 feet to the north-northwest of the Community.

Two historical landfills, the former Cogen Landfill and the former Blanchard Landfill, both of which were privately owned and operated, ceased operations in 1958, and are located to the southeast of the Community. The former Cogen Landfill is located directly southeast of the Community and the former Blanchard Landfill is located approximately 1,000 feet further to the south. County-owned roads and facilities are located on portions of the former landfill properties.

2.2 Site History

Based on available historical aerial photos and resident interviews, the City Terrace Community has been developed as a residential neighborhood since at least 1948 (HistoricalAerials.com, 2023). According to Citadel, the former Cogen Landfill operated from approximately 1951 to 1958, and the former Blanchard Landfill operated from approximately 1935 to 1958 (Citadel, 2023). Both landfills were owned and operated by the BKK Corporation, a private company.

2.3 Site Geology, Topography, and Hydrogeology

The Community is situated on the geologic map of the Los Angeles quadrangle, Los Angeles, California (Dibblee and Ehrenspeck, 1989) and identified as being underlain by the Pliocene-aged Fernando Formation, described as gray, soft, vaguely bedded marine claystone.

The surface elevation at the Community ranges from approximately 460 feet above mean sea level (amsl) at the intersection of Comly Street and North Eastern Avenue to 600 feet amsl at the intersection of Rollins Drive and Loren Street (United States Geological Survey topographic map, Los Angeles 7.5-minute

Quadrangle, 2022). Generally, the Community is located in an elevated, hilly area adjacent to the valleys in which the Interstate-10 and Interstate-710 Freeways run.

The Community is located within the Los Angeles River Watershed, an 834-square-mile area which spans from the Santa Monica Mountains to the Simi Hills in the easterly direction, and the Santa Susana Mountains to the San Gabriel Mountains in the westerly direction. The Community is situated between the Coastal Plain of Los Angeles Groundwater Basin, the Central Subbasin and the San Gabriel Valley Groundwater Basin. The Community is located approximately 0.25 miles from the Laguna Surface Water Channel and is not located within one mile of any perennial water source/surface water feature. Groundwater proximal to the Community is located approximately 200 feet below ground surface (bgs) (County Department of Public Works, 2021).

2.4 Previous Investigations and Chemicals of Potential Concern

In 2021, soil gas sampling and ambient/outdoor air sampling activities were conducted at 29 locations within the Community by Citadel at the direction of the County. Results of this investigation are included in their *Sampling Data Report*, published May 2023 (Citadel, 2023). A total of 67 soil gas samples and 26 ambient/outdoor air samples were collected in the vicinity of 27 residential properties and two additional approved locations in an alleyway. These samples were analyzed for the presence of VOCs and methane.

The results of the investigation identified elevated concentrations of VOCs, particularly benzene, in soil gas that required further assessment. The Department of Toxic Substance Control (DTSC) Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3 provides a benzene screening level (SL) for air inside a residential dwelling (DTSC, 2020). DTSC does not publish a screening level for benzene in soil gas. However, a screening level for soil gas can be calculated by applying an attenuation factor [AF] to the indoor air concentration. An AF of 0.03 is the default for residential soil gas screening per the Department of Toxic Substance Control (DTSC) *Final Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion* (DTSC, 2023). Using this AF, the residential SL for benzene in soil gas is calculated to be 3.2 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). Benzene concentrations in soil gas were reported by Citadel to range from 10 to 650 $\mu\text{g}/\text{m}^3$, all in excess of the calculated screening level.

Methane, a gas commonly generated in landfills, was detected in only one soil gas sample collected from the immediate vicinity of the landfill, at 2.0 parts per million by volume (ppmv), below the Lower Explosive Limit (LEL) of 50,000 ppmv, and thus did not present a health or explosive hazard. Two additional VOCs, tetrachloroethene and ethylbenzene, were detected in exceedance of their respective SLs in at least one residential soil gas sample.

According to Citadel, both the former Cogen and Blanchard landfills ceased operations in 1958 and are considered "legacy landfills," as they operated prior to the establishment of the 1977 State of California permitting requirements (Citadel, 2023). There have been no documented releases at the Community; however, the former landfills still contain decomposing material and debris that was deposited into the landfills when they were in operation. In 2021, Citadel collected samples from within the footprint of the former Cogen Landfill and identified 33 chemicals in soil gas. Methane was the most prevalent gas in the landfill "by a significant margin," while all other VOCs, except for benzene, vinyl chloride, and 1,4-dichlorobenzene, did not exceed their respective applicable commercial/industrial SLs using the San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (SFBRWQCB, 2022)

3. Pre-Field Activities

Tasks performed prior to implementation of the investigation fieldwork scope are described in this section. Roux created a *Site-Specific Health and Safety Plan* (HASP) for use by Roux personnel, submitted an Underground Service Alert ticket, pre-cleared all boring locations for potential subsurface utilities, and coordinated with local residents prior to implementing this investigation.

3.1 Health and Safety Plan

Prior to the start of field activities, Roux prepared a HASP, dated February 17, 2023 to ensure worker safety. All fieldwork associated with the investigation was performed in accordance with the HASP. The HASP identified the potential hazards at the Community that could present a potential threat to workers during the authorized scope of work. The HASP also identified best practices related to the reduction of risk due to the COVID-19 virus. Field workers acknowledged their familiarity with all safety procedures and indicated their intent to follow the HASP by signing the HASP after the tailgate safety meeting, which took place at the beginning of each field day.

3.2 Underground Service Alert

Roux pre-marked all residential properties at the curb line with white paint and notified Underground Service Alert (USA) of Southern California at least 72 hours in advance of intrusive subsurface work to identify potentially buried utility lines (e.g., natural gas, electric, water, sewer, telephone, fiber optic, etc.) situated within the bounds of the residential properties. In general, utility providers were responsive. Buried water and gas pipelines were clearly marked entering the properties at most locations.

The DigAlert ticket numbers associated with this investigation were:

- A230461079-00A
- A230461084-00A
- A230461096-00A
- A230461104-00A
- A230461075-00A
- A230461111-00A
- A230461112-00A
- A230461115-00A
- B230460901-00B

3.3 Limited Geophysical Survey

Prior to conducting intrusive activities, Roux evaluated the proposed boring locations to mitigate the risk of encountering buried utility lines or other subsurface features using ground-penetrating radar. Based on the results of the geophysical surveys, boring locations were adjusted as necessary.

3.4 Sampling and Analysis Plan

The 2021 Citadel investigation was conducted at 29 locations within the Community, 27 residential properties and two locations in an alleyway (Citadel, 2023). The scope of this investigation initially included all 27 residential properties addressed in 2021. The County made access requests for all 27 of the original residential properties; however, four of the residential properties declined the additional sampling. Each residential property was assigned a unique ID corresponding to the ID used by Citadel in 2021. The unique IDs were then used to identify each sample collected at a specific residential property as part of this investigation. Prior to intrusive work, the County made appropriate notifications of the proposed activities to residents and coordinated access to the investigation areas. During soil gas probe installation and sample collection activities, a representative from the County Department of Public Health accompanied Roux and

served as a liaison to the public. The sampling locations are shown in Figure 3. A Sampling and Analysis Plan is provided in Table 1.

3.5 Resident Survey and Technical Survey

DTSC's vapor intrusion guidance (DTSC 2023) states that in-depth building surveys should be conducted to support vapor intrusion evaluations. Building surveys provide important context for the interpretation of sampling results and generally include the following items:

- Building layout, occupancy, condition, heating, ventilation, and air conditioning (HVAC) configurations, and construction;
- Identification and removal (if possible) of potential indoor air sources of VOCs;
- Interviews with occupants; and
- Field screening.

Community-specific surveys were developed for residents and field personnel based on DTSC guidance. Prior to indoor air sampling, Roux requested that the occupant of each residential property complete a simple questionnaire regarding home chemical use. Survey participation was optional.

Onsite Roux personnel also requested permission to conduct a technical survey that included an inventory of potential VOC sources within the residential property (such as parts cleaners, recently dry-cleaned clothes, petroleum products, and household cleaning chemicals), building materials, basements, and heating, ventilation, and air conditioning (HVAC) configurations that could impact indoor air results. Residents at 22 of the 23 residential properties sampled, participated in the surveys. Example survey forms are included in this report as Appendix A.

4. Investigation Implementation

This investigation was performed on behalf of the County to investigate soil gas, indoor air, and ambient/outdoor air in the City Terrace Community and to identify the potential for vapor intrusion into residential homes. Investigation activities presented herein document the procedures and methods used to collect soil gas, indoor air, and ambient/outdoor air data as discussed in later sections of this report. The field activities were completed between February 20 and April 5, 2023. All work was performed under the direction of a California-registered Professional Civil Engineer.

4.1 Boring Advancement

At each of the 23 residential properties where access was provided, Roux personnel advanced two boreholes, each to a total depth of approximately 5.5 feet bgs. The boreholes were advanced using a hand auger to allow for advancement in areas with limited access (side yard and backyard areas) and to mitigate the potential risk of damaging subsurface features. Soils encountered during boring advancement were classified based on the Unified Soil Classification System (USCS) and ASTM International Standard ASTM-D 2488 “Standard Practice for Description and Identification of Soils (Visual-Manual Procedure).” At a minimum, soil descriptions included soil color, primary and (if appropriate) secondary soil type, USCS classification symbol, moisture condition, consistency or relative density, structure (if any), grain size, particle shape, cementation, plasticity, and stratification.

Approximate boring locations are shown on Figure 3, and boring logs are provided in Appendix B.

4.2 Installation of Temporary Soil Gas Probes

A total of 46 temporary soil gas probes were installed during the investigation; Roux personnel installed two soil gas probes at each of the 23 residential properties. Soil gas probes were constructed and sampled in general accordance with the *Advisory: Active Soil Gas Investigations* (Soil Gas Advisory; California Environmental Protection Agency [Cal/EPA], DTSC, and San Francisco Bay Regional Water Quality Control Board [SFBRWQCB], 2015). To facilitate increased resident participation and prevent damage to flooring within the residential properties and areas of hardscaping, all borings were located outside of residential properties, typically in landscaped areas, as close to the footprint of each building as possible.

Probes were installed by placing ¼-inch nylon (Nylaflow) tubing with a filter stone tip into the boreholes described in Section 4.1. Each probe tip was placed at approximately five feet bgs in the center of a sand pack consisting of a minimum 12-inch layer of #3 sand. The sand pack was overlain by a minimum 12-inch layer of dry bentonite chips, and then sealed to the surface using hydrated bentonite. Each probe was completed at the surface with a gas-tight valve to prevent degassing after construction and during equilibration.

Soil gas probe construction details are provided in Appendix C.

4.3 Soil Gas Probe Sampling

Roux collected a total of 51 soil gas samples (46 primary and 5 duplicate) from the 46 soil gas probes, in general accordance with the Soil Gas Advisory. Soil gas probe locations and indoor air samples were collocated to the degree practical considering the soil gas probes were installed outside the footprint of each building. Due to several significant rain events (defined as more than 0.5 inches of rain during a 24-hour

period) occurring during the timeframe of field activities, adjustments were made to the field schedule to ensure that sampling was performed in accordance with the Soil Gas Advisory.

Following soil gas probe installation, a minimum 48-hour equilibrium period was observed prior to sampling. Prior to purging or sampling, a minimum 60-second shut-in test at a vacuum of 100 inches of water was performed at each probe to confirm that the above-ground lines and three-way valves were properly sealed. Upon successful completion of the shut-in test, three purge volumes of stagnant air were extracted from the sampling system at a flow rate of 200 mL/min. A vacuum gauge was used to ensure the applied vacuum remained below 100 inches of water during purging and sampling. Samples were collected into one-liter SUMMA® canisters with 200 milliliter per minute (mL/min) flow controllers. During purging and sampling, a gaseous leak check chemical, 1,1-difluoroethane (1,1-DFA), was applied adjacent to the probe and sample train connections to detect potential leaks. Samples were labeled (soil gas sample IDs begin with an “SV-” designation), logged on a chain of custody form, and transported to a California-certified laboratory, Pace Analytical Environmental Sciences (Pace), for analysis. All soil gas samples were analyzed for VOCs (including the leak check chemical, 1,1-DFA) using United States Environmental Protection Agency (USEPA) Method TO-15 (SCAN¹).

Roux performed an evaluation of data quality and leak check chemical in the sampling results in accordance with the Soil Gas Advisory. If 1,1-DFA was detected at a concentration greater than 10 times the laboratory practical quantitation limit (PQL) for the target chemical (benzene), the associated probe was resampled. Quality control and resampling are further discussed in Section 4.7 below.

4.4 Indoor Air and Ambient/Outdoor Air Sampling

Over the course of the investigation, Roux collected a total of 52 indoor air samples (46 primary and six duplicate) and 25 ambient/outdoor air samples (23 primary and two duplicate). Two primary indoor air samples and one ambient/outdoor air sample were collected in each of the 23 residential properties. Indoor and ambient/outdoor air sampling was conducted in accordance with the *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air* (Vapor Intrusion Guidance; Cal/EPA and DTSC, 2011) and the DTSC *Final Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion* (DTSC, 2023). Samples were collected in individually certified six-liter SUMMA® canisters equipped with flow controllers to collect samples over a 24-hour period. Following collection, samples were labeled, logged on a chain of custody form, and transported to Pace for analysis. The samples were analyzed for VOCs using USEPA Method TO-15 (SIM²), USEPA Method TO-15 (SCAN) and for methane using ASTM Method D1946.

Indoor air samples were collected inside each residential property at a height of three to five feet above ground surface (representative of the breathing zone). The samples were collected from two different rooms in each residential property, roughly collocated with the exterior soil gas probe sampling locations, as practical. Whenever possible, the indoor air sampling canister was placed in the primary living space area

¹ SCAN mode refers to continuous scanning of a wide range of mass to charge ratios (USEPA, 1999).

² SIM = Selected Ion Monitoring. The mass spectrometer only monitors for select compounds on a target list (USEPA, 1999). USEPA Method TO-15 (SCAN), typical of soil gas analysis, analyzes a larger number of analytes to a higher reporting limit than TO-15 (SIM), which is typical of indoor and ambient/outdoor air analysis and more sensitive (lower reporting limits). Indoor and ambient/outdoor air samples were evaluated according to both analysis methods to provide information about more chemicals for the evaluation of potential vapor intrusion from soil gas into indoor air.

(i.e., living room, dining room, or kitchen) located on the ground floor, avoiding adjacent or interconnected spaces. Kitchens and bathrooms were preferred secondary locations due to potential sub-surface conduits. Canisters were generally placed in central locations within each room.

An ambient/outdoor air sample was also collected concurrently outside of each residential property to establish conditions outside each residential property during the indoor air sampling. Ambient/outdoor air samples were placed in the backyards of the residential properties, whenever possible, and away from chemical storage areas or other potential ambient/outdoor sources of VOCs. The canisters were secured at a height of approximately 6 feet above the ground. The Vapor Intrusion Guidance states that a minimum of three ambient/outdoor air samples should be collected with each indoor air sampling event; however, due to the large number of residential properties within the Community that are included in this scope of work, one ambient/outdoor air sample for each residential property was used to establish background ambient/outdoor air conditions, and all of the ambient/outdoor air samples combined were used to assess the general background conditions within the Community.

4.5 Sample Identification

Samples collected were designated with a unique identifier using the following format:



The above example represents a duplicate soil gas matrix sample collected from Residential Property 23, at the second location.

4.6 Investigation-Derived Waste

Investigation derived waste (IDW) generated from hand-auger activities were containerized U.S. Department of Transportation-rated 55-gallon drums. The drums were labeled and temporarily stored at the nearby County Department of Public Works Upper Central Yard until laboratory data was received and the drums were profiled for disposal. The IDW drums were disposed of under proper analytical profiling as non-hazardous waste.

4.7 Field Sampling Quality Control

Field quality assurance/quality control samples were collected during the investigation to assess whether reported concentrations of chemicals identified through analytical testing were of acceptable quality, as follows:

- **Field Duplicates – Soil Gas:** Five soil gas field duplicate samples were collected to check for sampling and analytical precision. Each soil gas duplicate was collected, labeled, and stored in the same manner as the primary samples. The duplicates were analyzed for the same analytes according to the same method as the primary samples. No significant anomalies were observed

between primary and duplicate samples. The average relative percent difference (RPD) between the primary and duplicate soil gas sample pairs for benzene was 5.9%. All primary and duplicate sample pairs had an RPD below 50% for benzene, in accordance with USEPA guidance (USEPA, 2020). The duplicate soil gas sample results are shown in italics beneath the primary soil gas sample results in Table 2.

- **Resampling – Soil Gas:** Two soil gas probes (SV-11-1 and SV-22-1) were resampled in order to meet data quality requirements. Samples from these probes appeared to have either an elevated practical quantitation limit (SV-22-1-R) or the presence of the leak-check chemical at a concentration greater than 10 times the laboratory PQL for benzene (SV-11-1-R). The replacement samples were collected, labeled, and stored in the same manner as the original samples. Only the resampling data were reported as a part of this investigation.
- **Field Duplicates – Indoor and Ambient/Outdoor Air:** Indoor air and ambient/outdoor air sample field duplicates were collected to check for sampling and analytical precision. Six indoor air duplicate samples and two ambient/outdoor air duplicate samples were collected, labeled (all duplicate sample IDs end with a “-D” designation), and stored in the same manner as the primary samples. The duplicates were analyzed for the same analytes according to the same methods as the primary samples. No significant anomalies were observed between primary and duplicate samples. The average RPD between the primary and duplicate indoor and ambient/outdoor air sample pairs for benzene was 3.6% using USEPA Method TO-15 SIM and 4.6% using USEPA Method TO-15 SCAN. All primary and duplicate sample pairs had an RPD below 50% for benzene, in accordance with USEPA guidance (USEPA, 2020). The duplicate indoor air and ambient/outdoor sample results are shown in italics beneath their respective primary sample results in Tables 3 and 4.

4.8 Results Delivery and Soil Gas Probe Removal

Upon receipt of sampling data, Roux prepared a residential property-specific letter and data report for each resident that participated in the investigation. Roux and County Department of Public Health personnel delivered the data reports to residents between April 20 and May 3, 2023, and were available in-person to answer any questions. Depending on the preference of each resident, results were delivered either by hand or via email. Soil gas probes at each residential property were removed during the data transmittal timeframe.

5. Field Observations and Analytical Results

5.1 Lithology

Soils encountered onsite were generally comprised of low-to-medium plasticity clays and silts, with trace-to-few, fine-to-medium sand. Soils were dry-to-moist and ranged in color from light brown to dark brown. Topsoil was encountered at numerous residential properties. Roux observed no visual or olfactory indications of contamination in the soil samples. Groundwater was not encountered in any of the boreholes. Boring logs are provided in Appendix B.

5.2 Soil Gas Analytical Results

A total of 51 (46 primary and five duplicate) soil gas samples were collected and analyzed from the 46 soil gas probes (SV-11 through SV-26, SV-28, SV-29, and SV-33 through SV-37). All soil gas samples were analysed for VOCs using USEPA Method TO-15 (SCAN).

Soil gas results were compared to the following screening levels (SLs), where applicable:

- Screening Level (SL) for soil gas derived from the DTSC HERO HHRA Notes 3 and 5 SL for Residential Air. Each SL was calculated using an AF of 0.03, applied according to the Vapor Intrusion Guidance.³
- If DTSC HERO HHRA SLs were unavailable for a given analyte, USEPA Regional Screening Levels (RSLs) for Residential Air Total Hazard Quotient (THQ) = 1.0 (USEPA, 2023) were used for screening.⁴
- If neither DTSC SLs nor USEPA RSLs were available for a given analyte, SFBRWQCB Environmental Screening Levels (ESLs) for Indoor Air (SFBRWQCB, 2019) were used for screening.

The SLs are developed based on the carcinogenic (cancer) toxicity of each chemical as well as age and race sensitivities to chemical exposure. Cancer risks for chemicals are set at one in one million (1E-6) risk over a lifetime of exposure.

The following section summarizes the laboratory analytical results of soil gas samples. Full copies of the laboratory reports are provided in Appendix D.

5.2.1 VOCs in Soil Gas

A total of 51 soil gas samples were collected from soil gas probes at 5 feet bgs and analyzed for VOCs. A total of 33 VOC analytes were detected above the laboratory PQL in one or more soil gas sample (Table 2).

³ An attenuation factor estimates the fraction of gas phase chemicals that pass through the foundation of a building and enter indoor space.

⁴ The THQ is the ratio of exposure to the toxic chemical and the highest level at which no health effects are experienced. Health effects are not expected if the THQ is less than one. Health effects are expected if the THQ is greater than one. A THQ of 1.0 is standard for risk assessment when there is one primary chemical of concern. A THQ of 0.1 is recommended when multiple chemicals of concern are present in multiple exposure media. As benzene is the primary chemical concern, a THQ of 1.0 was used. Additional information regarding risk is provided in the HHSE (Appendix E).

Numerous VOC detections in soil gas were appended with a “J” flag, indicating that the detection was below the PQL and is an estimated, or qualitative, concentration.

Four of the 33 analytes, benzene, chloroform, 1,2-dibromoethane, and tetrachloroethene, were reported in one or more soil gas samples at concentrations that exceeded the applicable SL, calculated using a conservative AF of 0.03. A summary of these analytes is presented below:

- **Benzene** was detected in exceedance of the laboratory PQL in 47 of the 51 soil gas samples at concentrations ranging from 0.55 µg/m³ (SV-26-2) to 15 µg/m³ (SV-25-2). Thirty-two of the 47 detections exceeded the DTSC HERO HHRA SVSL of 3.2 µg/m³.
- **Chloroform** was detected in exceedance of the laboratory PQL in 31 of the 51 soil gas samples at concentrations ranging from 0.84 µg/m³ (SV-33-2) to 11 µg/m³ (SV-15-1). Two of the 31 detections exceeded the USEPA RSL of 4.0 µg/m³.
- **1,2-Dibromoethane** was detected in exceedance of the laboratory PQL in four of the 51 soil gas samples at concentrations ranging from 1.7 µg/m³ (SV-29-1) to 3.0 µg/m³ (SV-36-1). All four of the detections exceeded the USEPA RSL of 0.16 µg/m³.
- **Tetrachloroethene** was detected in exceedance of the laboratory PQL in 16 of the 51 soil gas samples at concentrations ranging from 1.0 µg/m³ (SV-36-2) to 100 µg/m³ (SV-12-1). One of the 16 detections exceeded the DTSC HERO HHRA SL of 15 µg/m³.

5.3 Indoor Air and Ambient/Outdoor Air Analytical Results

A total of 52 indoor air samples and 25 ambient/outdoor air samples were analyzed for VOCs using both USEPA Method TO-15 SIM and TO-15 SCAN and methane using ASTM Method D1946. Analysis for VOCs using both TO-15 SIM and TO-15 SCAN was performed in order to capture the broader soil gas analyte list reported for TO-15 SCAN as well as the lower detection limits reported for TO-15 SIM.

Indoor air and ambient/outdoor air results were compared to the following SLs, as applicable:

- DTSC HERO HHRA Notes 3 and 5 SL for Residential Air;
- If DTSC HERO HHRA SLs were unavailable for a given analyte, USEPA Regional Screening Levels (RSLs) for Residential Air THQ = 1.0 (USEPA, rev. 2022) were used for comparison;
- If neither DTSC SLs nor USEPA RSLs were available for a given analyte, SFBRWQCB Environmental Screening Levels (ESLs) for Indoor Air (SFBRWQCB, rev. 2019) were used for comparison; and
- Methane results were compared against the lower explosive limit (LEL) for methane (50,000 ppmv) as no health-based SL has been established.

The following section summarizes the laboratory analytical results of indoor and ambient/outdoor air samples. Full copies of the laboratory reports are provided in Appendix D.

5.3.1 VOCs in Indoor Air

A total of 52 indoor air samples were collected and were analyzed for VOCs using USEPA Method TO-15 (SIM) and TO-15 (SCAN). Across all samples, detections were consistent for the common analytes between TO-15 (SIM) and TO-15 (SCAN). Detections of analytes reported in this section refer to data produced using TO-15 (SIM) analysis.

A total of 19 VOCs were detected above the laboratory PQL in one or more indoor air samples when using USEPA Method TO-15 SIM (Table 3).

Eight of the 19 analytes included in TO-15 (SIM) analysis were reported at concentrations that exceeded their corresponding SLs. A summary of these analytes is presented below:

- **Benzene** was detected in exceedance of the laboratory PQL in 52 of the 52 indoor air samples at concentrations ranging from 0.39 $\mu\text{g}/\text{m}^3$ (IA-15-2 and IA-25-1) to 4.8 $\mu\text{g}/\text{m}^3$ (IA-33-1). All 52 of the 52 detections exceeded the DTSC HERO HHRA Note 3 SL of 0.097 $\mu\text{g}/\text{m}^3$.
- **Carbon Tetrachloride** was detected in exceedance of the laboratory PQL in two of the 52 indoor air samples, both at concentrations of 0.71 $\mu\text{g}/\text{m}^3$ (IA-24-1 and IA-24-2). Both detections exceeded the DTSC HERO HHRA Note 3 SL of 0.47 $\mu\text{g}/\text{m}^3$.
- **Chloroform** was detected in exceedance of the laboratory PQL in seven of the 52 indoor air samples at concentrations ranging from 0.56 $\mu\text{g}/\text{m}^3$ (IA-13-1) to 0.97 $\mu\text{g}/\text{m}^3$ (IA-11-2). All seven detections exceeded the USEPA RSL of 0.12 $\mu\text{g}/\text{m}^3$.
- **1,4-Dichlorobenzene** was detected in exceedance of the laboratory PQL in seven of the 52 indoor air samples at concentrations ranging from 3.1 $\mu\text{g}/\text{m}^3$ (IA-16-1) to 170 $\mu\text{g}/\text{m}^3$ (IA-17-1). All seven detections exceeded the USEPA RSL of 0.26 $\mu\text{g}/\text{m}^3$.
- **1,2-Dichloroethane** was detected in exceedance of the laboratory PQL in three of the 52 indoor air samples at concentrations ranging from 0.15 $\mu\text{g}/\text{m}^3$ (IA-28-2) to 1.5 $\mu\text{g}/\text{m}^3$ (IA-20-1). All three detections exceeded the USEPA RSL of 0.11 $\mu\text{g}/\text{m}^3$.
- **Ethylbenzene** was detected in exceedance of the laboratory PQL in 51 of the 52 indoor air samples at concentrations ranging from 0.13 $\mu\text{g}/\text{m}^3$ (IA-15-1, IA-15-2, and IA-25-1) to 1.8 $\mu\text{g}/\text{m}^3$ (IA-26-2). Nine of the 51 detections exceeded the USEPA RSL of 1.1 $\mu\text{g}/\text{m}^3$.
- **Methylene chloride** was detected in exceedance of the laboratory PQL in five of the 52 indoor air samples at concentrations ranging from 0.90 $\mu\text{g}/\text{m}^3$ (IA-17-2) to 2.6 $\mu\text{g}/\text{m}^3$ (IA-19-1). Four of the five detections exceeded the DTSC HERO HHRA Note 3 SL of 1.0 $\mu\text{g}/\text{m}^3$.
- **Tetrachloroethene** was detected in exceedance of the laboratory PQL in seven of the 52 indoor air samples at concentrations ranging from 0.69 $\mu\text{g}/\text{m}^3$ (IA-20-1) to 1.4 $\mu\text{g}/\text{m}^3$ (IA-23-2). All seven detections exceeded the DTSC HERO HHRA Note 3 SL of 0.46 $\mu\text{g}/\text{m}^3$.

Below, analytes included in the TO-15 (SCAN) analysis and not TO-15 (SIM) analysis are presented.

5.3.2 VOCs in Indoor Air (TO-15 SCAN)

All indoor air samples were also analysed for VOCs using USEPA Method TO-15 SCAN. A total of 34 VOC analytes were detected above the laboratory PQL in one or more indoor air samples using USEPA Method TO-15 SCAN (Table 4). Of the 34 VOC analytes detected, 26 were detected at concentrations that did not exceed their respective SLs. A summary of the 34 detected VOC analytes is presented in Table 4.

One of the eight analytes, 1,3-butadiene, was reported at a concentration that exceeded its applicable SL uniquely in the TO-15 SCAN data, and not the TO-15 SIM data. 1,3-Butadiene was detected in exceedance of the laboratory PQL in one of the 52 indoor air samples at concentration of 1.4 J $\mu\text{g}/\text{m}^3$ (IA-33-2). This one detection exceeded the DTSC HERO HHRA Note 3 SL of 0.017 $\mu\text{g}/\text{m}^3$.

5.3.3 Methane in Indoor Air

All indoor air samples were also analysed for methane using ASTM Method D1946 (Table 3). Methane was detected in all 52 indoor air samples in exceedance of the laboratory PQL, with concentrations ranging from 1.9 ppmv (IA-12-2-D) to 2,100 ppmv (IA-28-1). None of the 52 methane detections exceeded the LEL for methane at 50,000 ppmv.

5.3.4 VOCs in Ambient/Outdoor Air

A total of 25 ambient/outdoor air samples were collected from the exteriors of the residential properties and were analysed for VOCs using USEPA Method TO-15 SIM. A total of 11 VOCs were detected above the laboratory PQL in one or more ambient/outdoor air samples (Table 3).

Of the 11 analytes detected, only benzene was reported at concentrations that exceeded the corresponding SL. Benzene was detected in exceedance of the laboratory PQL in all 25 of the ambient/outdoor air samples at concentrations ranging from 0.40 $\mu\text{g}/\text{m}^3$ (AA-15-1) to 1.1 $\mu\text{g}/\text{m}^3$ (AA-24-1). All 25 detections exceeded the DTSC HERO HHRA Note 3 SL of 0.097 $\mu\text{g}/\text{m}^3$.

5.3.5 VOCs in Ambient/Outdoor Air (TO-15 SCAN)

All ambient/outdoor air samples were also analyzed for VOCs using USEPA Method TO-15 SCAN. A total of 19 VOCs were detected above the laboratory PQL in one or more ambient/outdoor air samples using USEPA Method TO-15 SCAN (Table 4).

Only tetrachloroethene was reported at a concentration that exceeded its applicable SL uniquely in the TO-15 SCAN data, and not the TO-15 SIM data. Tetrachloroethene was detected in exceedance of the laboratory PQL in one of the 25 ambient/outdoor air samples at a concentration of 2.4 $\mu\text{g}/\text{m}^3$ (AA-20-1). This concentration exceeded the DTSC HERO HHRA Note 3 SL of 0.46 $\mu\text{g}/\text{m}^3$.

5.3.6 Methane in Ambient/Outdoor Air

A total of 25 ambient/outdoor air samples were collected and analyzed for methane using ASTM Method D1946 (Table 3). Methane was detected in all 25 ambient/outdoor air samples in exceedance of the laboratory PQL, with concentrations ranging from 2.0 ppmv (AA-19-1 and AA-37-1) to 88 ppmv (AA-25-1). None of the 25 methane detections exceeded the LEL of methane at 50,000 ppmv.

6. Limited Human Health Screening Evaluation

Roux prepared a Limited Human Health Screening Evaluation (HHSE) that incorporates results of soil gas, indoor air, and ambient/outdoor air investigation. The objective of the HHSE is to provide a conservative evaluation of the potential additional risk from exposure to chemicals detected in the indoor air within residential properties of the Community. The HHSE was prepared pursuant to the DTSC *Preliminary Endangerment Assessment Guidance Manual* (PEA Guidance; DTSC, 2015). To evaluate residential exposures to indoor air, the DTSC HERO HHRA Notes 3 and 5 SLs and the USEPA RSLs for non-carcinogenic and carcinogenic effects were utilized. This section summarizes the cumulative non-carcinogenic and carcinogenic risks for each residential property. The full HHSE is provided in Appendix E.

The risk characterization process integrates the results of the data evaluation, exposure assessment, and toxicity assessment to provide a quantitative estimation of cumulative non-carcinogenic and carcinogenic risks. While benzene was the primary driver of the additional cancer risk in the calculations, it is important to note that the HHSE additional health risk calculations incorporated exposures to all detections of chemicals in the air samples.

- All residential properties have an estimated additional cancer risk which exceeds the OEHHA additional cancer risk threshold for background chemical exposure of one in one million (1E-06).
- Six residential properties (Residential Properties 11, 17, 22, 24, 33, and 37) have an estimated non-cancer Hazard Index (HI) which exceeds the OEHHA non-cancer HI threshold of 1.0 (i.e., there is an increased risk of adverse non-cancer health effects⁵).

⁵ The measure used to describe the potential for noncarcinogenic health effects is the Hazard Index (HI). The HI is the ratio of a receptor's exposure level (or dose) to the "acceptable" (or allowable) exposure level (i.e., the reference dose or concentration). An HI of 1 or less indicates that the receptor's exposure is equal to or less than the allowable exposure level, and that it is unlikely that adverse health effects will occur.

The table below summarizes the estimated cumulative cancer risk and non-cancer HI for each residential property.

- The estimated cancer risk for the 23 residential properties ranged from 4E-06 (four in one million) to 7E-4 (seven in ten thousand).
- The estimated non-cancer hazard index for the 23 residential properties ranged from 0.2 (2E-01) to 5 (5E+00).

Property ID	Estimated Additional Cancer Risk	Additional Cancer Risk Background Threshold of 1E-06	Estimated Non-Cancer HI	Non-Cancer HI Threshold of 1
Residential Property 11	3E-05	Exceeds	2.0	Exceeds
Residential Property 12	1E-05	Exceeds	0.5	Does Not Exceed
Residential Property 13	2E-05	Exceeds	0.8	Does Not Exceed
Residential Property 14	2E-05	Exceeds	0.8	Does Not Exceed
Residential Property 15	4E-06	Exceeds	0.3	Does Not Exceed
Residential Property 16	2E-05	Exceeds	0.4	Does Not Exceed
Residential Property 17	7E-04	Exceeds	2.0	Exceeds
Residential Property 18	9E-06	Exceeds	1.0	Does Not Exceed
Residential Property 19	2E-05	Exceeds	0.6	Does Not Exceed
Residential Property 20	2E-05	Exceeds	0.6	Does Not Exceed
Residential Property 21	1E-05	Exceeds	0.5	Does Not Exceed
Residential Property 22	7E-06	Exceeds	0.4	Does Not Exceed
Residential Property 23	1E-05	Exceeds	5.0	Exceeds
Residential Property 24	2E-05	Exceeds	2.0	Exceeds
Residential Property 25	4E-06	Exceeds	0.2	Does Not Exceed
Residential Property 26	9E-06	Exceeds	0.7	Does Not Exceed
Residential Property 28	1E-05	Exceeds	0.7	Does Not Exceed
Residential Property 29	1E-04	Exceeds	0.7	Does Not Exceed
Residential Property 33	1E-04	Exceeds	3.0	Exceeds
Residential Property 34	1E-05	Exceeds	0.5	Does Not Exceed
Residential Property 35	1E-05	Exceeds	0.4	Does Not Exceed
Residential Property 36	2E-05	Exceeds	1.0	Does Not Exceed
Residential Property 37	9E-06	Exceeds	3.0	Exceeds

Depending on the day, exposure to the ambient/outdoor air has an additional cancer risk that ranged from 4 to 10 in one million, consistent with risk levels in communities across LA County. The larger range of additional cancer risk for the indoor air (4 to 700 in one million) reflects the exposure to chemicals that have sources inside individual homes (e.g., household chemicals, dry cleaning, etc.).

7. Analysis and Conclusions

7.1 VOCs in Soil Gas

Benzene was detected in nearly all of the soil gas samples across the Community (47 of the 51 samples collected and analyzed) with concentrations exceeding the calculated SL in 32 of the samples. The distribution of benzene in soil gas across the Community is illustrated in Figure 4.

Although many of the benzene detections in soil gas exceeded the calculated SL, the concentrations were relatively low (compared to known conditions in the greater Los Angeles area) and were consistent throughout the Community, with a maximum of 15 $\mu\text{g}/\text{m}^3$. Benzene concentrations in soil gas within the study area do not appear to be correlated with any particular location(s), either within the Community or from a nearby off-site source (such as the nearby landfills).

Numerous additional VOCs commonly associated with petroleum products and fuel exhaust were also detected in soil gas across the Community. These included other BTEX (benzene, toluene, ethylbenzene, and xylenes) compounds, acetone, and methyl ethyl ketone (MEK). However, the only other chemicals for which detections exceeded SLs were chloroform (two samples), 1,2-dibromomethane (four samples), and tetrachloroethene (one sample). These detections were isolated and do not appear to be indicative of a significant release to the subsurface.

The distribution and concentrations of benzene and other fuel-related compounds in the subsurface do not appear to be associated with a subsurface source and may be the result of a build-up in the soil caused by aeri ally deposited compounds from the nearby freeways (chemicals in the ambient/outdoor air penetrating the ground). Aerial deposition of BTEX compounds from anthropogenic (man-made) sources in ambient/outdoor air, including vehicular emissions in highly trafficked areas has been documented at other sites.^{6,7,8,9}

7.2 VOCs in Indoor Air

Benzene was detected in all indoor air samples, with all concentrations exceeding the corresponding residential SL. Due to the elevated benzene concentrations, all residential properties have an estimated additional cancer risk which exceeds the additional cancer risk background threshold of one in one million (1E-06). The distribution of benzene in indoor air across the Community is shown in Figure 5. Concentrations of benzene in indoor air were generally consistent across the Community, ranging from 0.39 to 4.8 $\mu\text{g}/\text{m}^3$, with the majority below 1.1 $\mu\text{g}/\text{m}^3$ (the maximum concentration of benzene detected in ambient/outdoor air; further discussed in Section 7.3). Similar to the soil gas results, benzene concentrations in indoor air do not

⁶ Gupta, A., Jha, A.K., Singh, A.K., Rajput, P., and Gupta, T. (2020). Distribution of BTEX in Soils of an Urban Area: Kanpur Region, India. *Journal of Energy and Environmental Sustainability*, 9 (2020), 61–66.

⁷ Liu, A., Hong, N., Zhu, P., and Guan, Y. (2018). Characterizing benzene series (BTEX) pollutants build-up process on urban roads: Implication for the importance of temperature. *Environmental Pollution*, 242 (2018) 596–604.

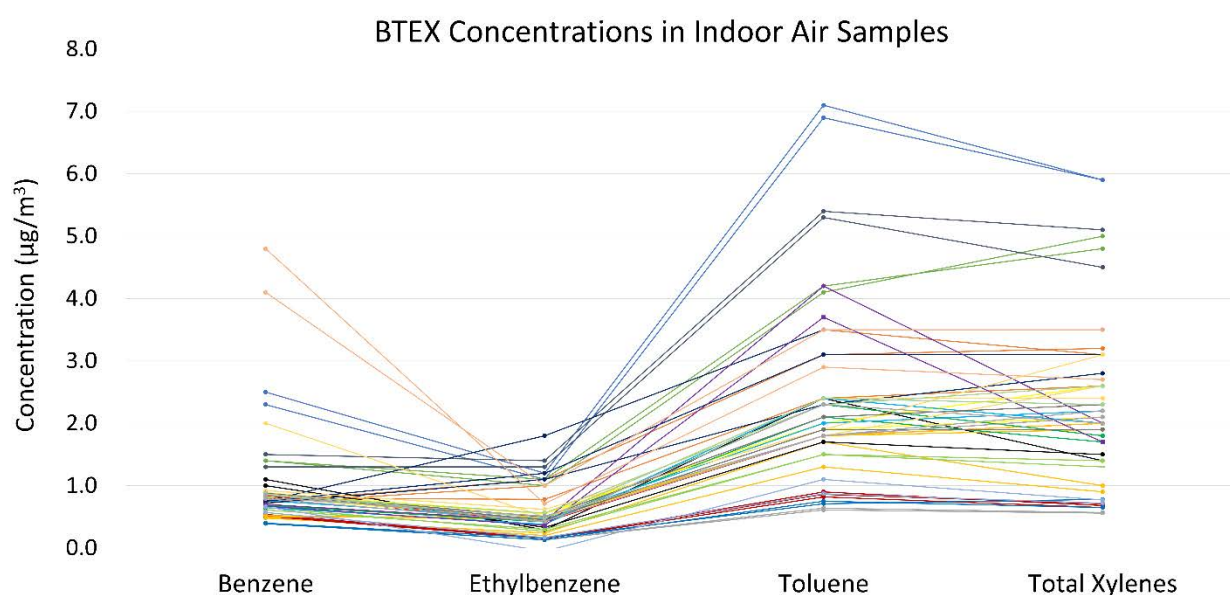
⁸ Liu, A., Hong, N., Zhu, P., and Guan, Y. (2019). Characterizing petroleum hydrocarbons deposited on road surfaces in urban environments. *Science of the Total Environment*, 653 (2019) 589–596.

⁹ Hong, N., Liu, A., Zhu, P., Zhao, X., Guan, Y., Yang, M., and Wang, H. (2018). Modelling benzene series pollutants (BTEX) build-up loads on urban roads and their human health risks: Implications for stormwater reuse safety. *Ecotoxicology and Environmental Safety*, 164 (2018) 234–242.

appear to be correlated with any particular location(s), either within the Community or from a nearby off-site source (such as the nearby landfills).

Potential household sources of benzene include gasoline, car exhaust (from an attached garage), and combustion (such as tobacco/cannabis smoke, cooking, and candles). Benzene concentrations in indoor air were considerably higher at two of the residential properties tested. Credible household sources for the elevated benzene were identified at both locations based on the resident-provided survey.

Numerous other BTEX compounds were also detected in indoor air across the Community. The majority of detections were below SLs, but there were noted SL exceedances of ethylbenzene. The figure below shows the concentrations of BTEX chemicals across the indoor air samples and illustrates the generally consistent ratio of these chemicals in indoor air throughout the Community.



As stated in Sections 5.3.1 and 5.3.2, several other VOCs were detected above SLs at select residential properties, but they were not detected consistently across the Community. The VOCs encountered in indoor air during the study are commonly associated with household sources of indoor air contamination, as follows:

- Carbon tetrachloride: household cleaning products containing bleach¹⁰ (two samples with SL exceedances);
- Chloroform: air deodorizers and household cleaning products¹¹ (seven samples with SL exceedances);
- 1,4-Dichlorobenzene: Air fresheners, moth balls, and household cleaning products¹² (seven samples with SL exceedances);

¹⁰ https://www.atsdr.cdc.gov/csem/carbon-tetrachloride/where_found.html

¹¹ <https://www.atsdr.cdc.gov/ToxProfiles/tp6-c5.pdf>

¹² <https://www.cdc.gov/TSP/ToxFAQs/ToxFAQsDetails.aspx?faqid=703&toxid=126>

- 1,2-Dichloroethane: Gasoline, car exhaust, and tobacco smoke¹³ (three samples with SL exceedances);
- Methylene chloride: Paint strippers, and aerosol products¹⁴ (the four samples with SL exceedances had J flags, and therefore, they can only be interpreted qualitatively);
- Tetrachloroethene: Dry cleaning¹⁵ and building products (seven samples with SL exceedances); and
- 1,3-Butadiene: Gasoline, car exhaust, and tobacco smoke¹⁶ (the one sample with an SL exceedance had a J flag, and therefore, it can only be interpreted qualitatively).

These additional VOC detections appear to be isolated and do not appear to be indicative of a large-scale source area within the Community. The corresponding soil gas probes generally did not have elevated detections of these chemicals, indicating that vapor intrusion is unlikely to be the source of the impacts (refer to Section 7.4 for further discussion).

7.3 Methane in Indoor Air

Methane was detected at low levels in all of the indoor air samples (detections were generally consistent with concentrations of ambient/outdoor air, as discussed in Section 7.3); none of the detections exceeded (or approached) the LEL.

7.4 VOCs in Ambient/Outdoor Air

Benzene was detected in all ambient/outdoor air samples, with all concentrations exceeding the SL for residential air. The distribution of benzene in ambient/outdoor air across the Community is shown in Figure 5. Concentrations of benzene were very consistent across the Community, ranging from 0.40 to 1.1 $\mu\text{g}/\text{m}^3$. Similar to the soil gas and indoor air results, the spatial distribution and lack of significantly elevated concentrations in a particular area of the Community suggest that the benzene impacts are not associated with a particular local point source, either in the Community or offsite nearby.

It is noted that day-to-day variations in weather (temperature, wind speed, and wind direction) are known to affect concentrations of VOCs in ambient/outdoor air and may account for the variation in concentrations across the Community, as the sampling occurred over a several week period with varying weather conditions. The figure below shows the concentrations of benzene across all of the indoor and ambient/outdoor air samples.

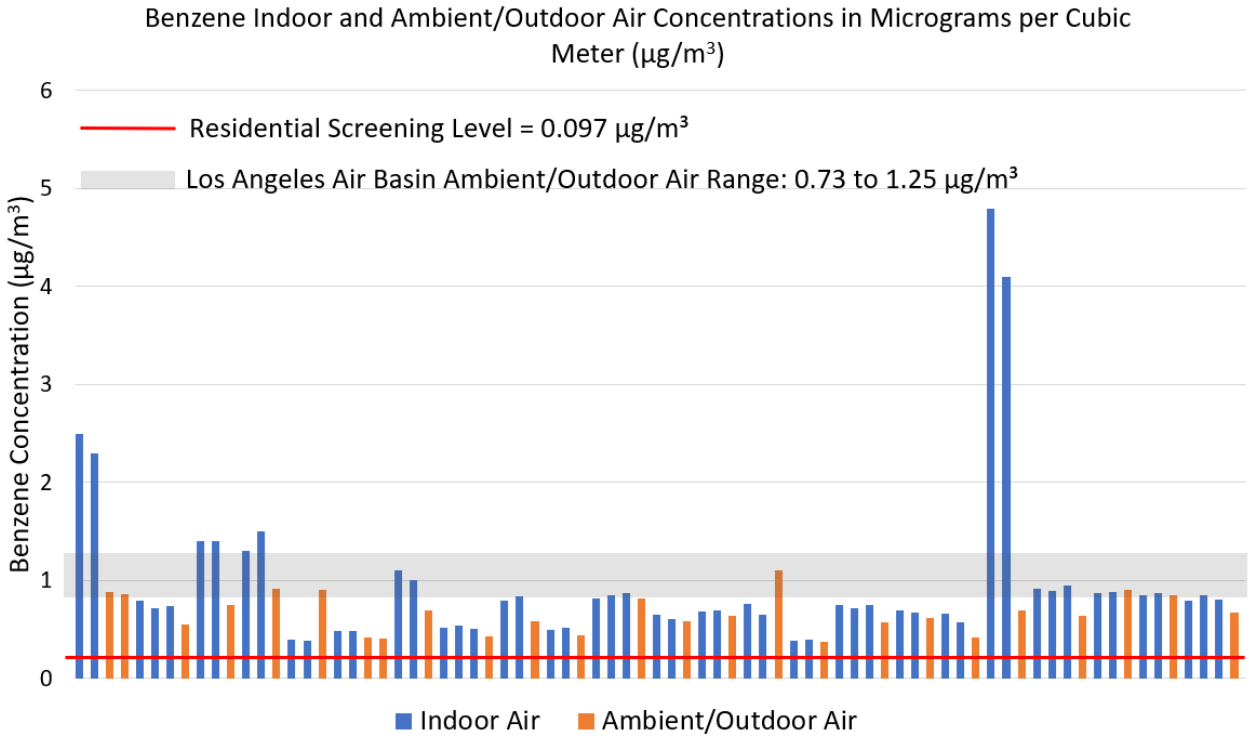
¹³ <https://www.atsdr.cdc.gov/ToxProfiles/tp38-c5.pdf>

¹⁴ <https://www.atsdr.cdc.gov/ToxProfiles/tp14-c1-b.pdf>

¹⁵ https://www.atsdr.cdc.gov/csem/tetrachloroethylene/section_1_2.html

¹⁶

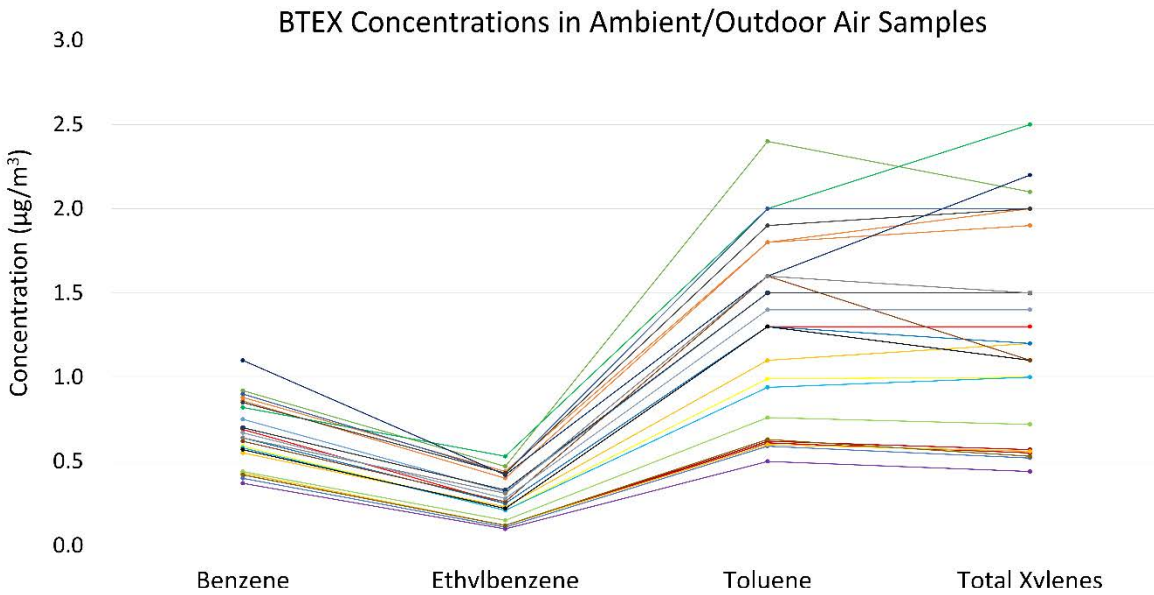
https://cfpub.epa.gov/ncea/iris_drafts/recordisplay.cfm?deid=54499#:~:text=The%20major%20environmental%20source%20of,3%2Dbutadiene%20in%20indoor%20air.



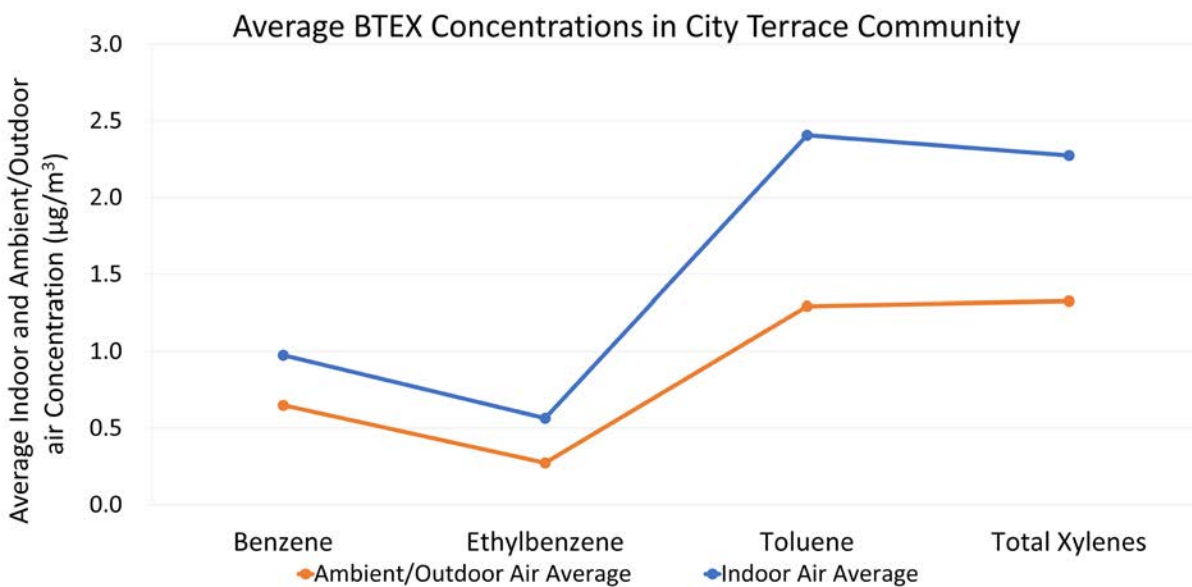
Benzene concentrations in indoor air tended to be slightly higher than ambient/outdoor air results across the Community. This is likely due to other potential indoor air sources of benzene, as discussed in Section 7.1. The typical range of benzene concentrations in the Los Angeles Air Basin is further discussed in Section 7.5.1.

Other BTEX compounds were detected in ambient/outdoor air samples; although only benzene exceeded SL the corresponding SL for residential air, as previously discussed. The figure below shows the

concentrations of BTEX chemicals across the ambient/outdoor air samples and illustrates the consistent ratio of these chemicals in indoor air throughout the Community.



The figure below illustrates the average indoor air concentrations of BTEX compounds compared to the average ambient/outdoor air concentrations. This is a strong indication that indoor air concentrations of benzene (and other BTEX chemical) are primarily derived from ambient/outdoor air entering residential properties via doors, windows, and vents.



7.4.1 Background Benzene Concentrations in Los Angeles

As discussed in Section 7.3, benzene was detected in all ambient/outdoor air samples, ranging from 0.40 to 1.1 $\mu\text{g}/\text{m}^3$, with all concentrations exceeding the SL for residential air. These concentrations are consistent with benzene levels experienced throughout the greater Los Angeles area. Based on a review of South Coast Air Quality Management District (SCAQMD) data from 2018 to 2019, typical daily benzene concentrations in Los Angeles Air Basin ambient/outdoor air range from 0.73 to 1.25 $\mu\text{g}/\text{m}^3$, with a Basin-wide average of 0.92 $\mu\text{g}/\text{m}^3$.

Historically, average concentrations of benzene in the Los Angeles Air Basin were significantly higher. From 1998 to 1999 (the first year with available data), the average Basin-wide benzene concentration was 3.66 $\mu\text{g}/\text{m}^3$. The average Basin-wide benzene concentration decreased to 1.88 $\mu\text{g}/\text{m}^3$ in the early 2000s (2004-2006).

All SCAQMD data referenced in this report was obtained from the Multiple Air Toxics Exposure Study (MATES), as collected from air monitoring stations in Anaheim, Burbank, Central Los Angeles, Compton, Huntington Park, Inland Valley San Bernardino, Long Beach, Pico Rivera, Rubidoux, and West Long Beach.¹⁷ Benzene data from MATES was converted from ppbv to $\mu\text{g}/\text{m}^3$ using the EPA's Indoor Air Unit Conversion online tool,¹⁸ assuming a temperature of 60 degrees Fahrenheit and an air pressure equal to one atmosphere.

7.5 Methane in Ambient/Outdoor Air

Methane was detected at low levels in all of the indoor air samples (and they were generally consistent with concentrations of ambient/outdoor air, as discussed in Section 7.3); none of the detections exceeded the LEL.

7.6 Vapor Intrusion

Roux performed an analysis of soil gas, indoor air, and ambient/outdoor air data to determine whether vapor intrusion may be contributing to VOC concentrations in indoor air. As noted in Section 7.4, the similar ratios of BTEX in indoor air and ambient/outdoor air are a strong indication that indoor air concentrations, particularly for benzene, are driven by ambient/outdoor air entering residential properties via doors, windows, and vents.

The assessment of the potential for vapor intrusion of soil gas into the interior of homes resulted in the conclusion that no significant vapor intrusion was observed in any of the homes tested. Benzene concentrations indoors are considerably higher than what would be predicted based on soil gas results (using an AF of 0.03). For example, Residential Property 23 had a maximum benzene detection of 6.9 $\mu\text{g}/\text{m}^3$ in soil gas. If an AF of 0.03 was applied, the predicted indoor air concentration of benzene would be 0.207 $\mu\text{g}/\text{m}^3$. However, the actual maximum benzene concentration in Residential Property 23 was 0.69 $\mu\text{g}/\text{m}^3$.

Roux analyzed all VOCs that were encountered in both soil gas and indoor air to determine what, if any, level of vapor intrusion may be occurring. It was not possible to determine any clear example of vapor intrusion from the data collected.

¹⁷ <http://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-v/mates-v-air-monitoring-dashboard>

¹⁸ https://www3.epa.gov/ceampubl/learn2model/part-two/onsite/ia_unit_conversion.html

It should be noted that in earlier regulatory guidance documents, specifically the DTSC Vapor Intrusion Guidance Document (DTSC, 2011), the average AF for existing residential buildings is estimated to be 0.002. Roux also analyzed the soil gas data for the potential for vapor intrusion using a presumptive 0.002 AF, and again no evidence of vapor intrusion was identified for any of the residential properties.

Also, other VOCs observed in the soil gas were not observed in the indoor air. If vapor intrusion was occurring, some of the other VOCs are at concentration in soil gas where they would have been reasonably expected to have been detected if vapor intrusion was occurring. For example, Residential Property 15 had a maximum chloroform detection of 11 $\mu\text{g}/\text{m}^3$ in soil gas. If an AF of 0.03 was applied, the predicted indoor air concentration of chloroform would be 0.33 $\mu\text{g}/\text{m}^3$. However, chloroform was not detected in indoor air (the laboratory PQL for chloroform was 0.05 $\mu\text{g}/\text{m}^3$).

7.7 Conclusions

The scope of this investigation included the collection of 51 soil gas samples, 52 indoor air samples, and 25 ambient/outdoor air samples at 23 residential properties across the Community. Various VOCs and methane were detected in the samples, with most concentrations below SLs; however, benzene was present in the majority of samples across the Community. While other VOCs were detected above screening levels in select samples, they were found to be isolated and not present Community-wide.

Benzene was detected in most of the soil gas samples, at concentrations exceeding calculated screening levels; however, the comparable distribution of benzene in soil gas across the Community did not suggest the presence of a significant point source for benzene within the Community or in the immediate vicinity.

Benzene was detected in all indoor air and ambient/outdoor air samples, with all concentrations exceeding residential screening levels. As a result, exposure to both indoor and ambient/outdoor air have an estimated additional cancer risk which exceeds the OEHHA threshold for background chemical exposure of one in one million ($1\text{E}-06$). The concentrations of benzene in the Community and the associated additional cancer risk are generally consistent with benzene levels in ambient/outdoor air experienced throughout the greater Los Angeles area. Based on the strong similarities between concentrations of benzene and other BTEX compounds in indoor and ambient/outdoor air, concentrations of benzene in indoor air appear to be primarily sourced from benzene in ambient/outdoor air. Furthermore, no evidence of vapor intrusion was identified in any of the homes tested within the Community.

Respectfully submitted,

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Soil Gas and Indoor Air Sampling Report
City Terrace, East Los Angeles, California

TABLES

1. Sampling and Analysis Plan
2. Select VOCs in Soil Gas
3. Select VOCs in Indoor and Ambient/Outdoor Air (TO-15 SIM)
4. Select VOCs in Indoor and Ambient/Outdoor Air (TO-15 SCAN)

Table 1 - Sampling and Analysis Plan
 City Terrace Community, East Los Angeles, Los Angeles County, California

Location ID	Soil Gas 1L Summa, VOCs by TO-15	Indoor & Outdoor Air 6L Summa, VOCs by TO-15 SIM and TO-15 SCAN	
	5-foot SV Sample ID	IA Sample ID	AA Sample ID
11	SV-11-1	IA-11-1	AA-11-1
			AA-11-1-D
	SV-11-2	IA-11-2	
12	SV-12-1	IA-12-1	AA-12-1
	SV-12-2	IA-12-2	
		IA-12-2-D	
13	SV-13-1	IA-13-1	AA-13-1
	SV-13-1-D		
	SV-13-2	IA-13-2	
14	SV-14-1	IA-14-1	AA-14-1
	SV-14-2	IA-14-2	
	SV-14-2-D		
15	SV-15-1	IA-15-1	AA-15-1
	SV-15-2	IA-15-2	
16	SV-16-1	IA-16-1	AA-16-1
			AA-16-1-D
	SV-16-2	IA-16-2	
17	SV-17-1	IA-17-1	AA-17-1
	SV-17-2	IA-17-2	
18	SV-18-1	IA-18-1	AA-18-1
		IA-18-1-D	
	SV-18-2	IA-18-2	
19	SV-19-1	IA-19-1	AA-19-1
	SV-19-2	IA-19-2	
20	SV-20-1	IA-20-1	AA-20-1
	SV-20-1-D		
	SV-20-2	IA-20-2	
21	SV-21-1	IA-21-1	AA-21-1
	SV-21-2	IA-21-2	
		IA-21-2-D	
22	SV-22-1	IA-22-1	AA-22-1
	SV-22-2	IA-22-2	
23	SV-23-1	IA-23-1	AA-23-1
	SV-23-2	IA-23-2	
	SV-23-2-D		
24	SV-24-1	IA-24-1	AA-24-1
	SV-24-2	IA-24-2	
25	SV-25-1	IA-25-1	AA-25-1
	SV-25-2	IA-25-2	
26	SV-26-1	IA-26-1	AA-26-1
		IA-26-1-D	
	SV-26-2	IA-26-2	
28	SV-28-1	IA-28-1	AA-28-1
	SV-28-2	IA-28-2	
29	SV-29-1	IA-29-1	AA-29-1
	SV-29-2	IA-29-2	
33	SV-33-1	IA-33-1	AA-33-1
	SV-33-2	IA-33-2	
34	SV-34-1	IA-34-1	AA-34-1
	SV-34-2	IA-34-2	
		IA-34-2-D	
35	SV-35-1	IA-35-1	AA-35-1
	SV-35-2	IA-35-2	
36	SV-36-1	IA-36-2	AA-36-1
	SV-36-1-D		
	SV-36-2	IA-36-2	
37	SV-37-1	IA-37-1	AA-37-1
		IA-37-1-D	
	SV-37-2	IA-37-2	

Table 3 - Select Volatile Organic Compounds (VOCs) in Indoor and Ambient/Outdoor Air (TO-15 SIM)
City Terrace Community, East Los Angeles, CA

Location ID	Date Sampled	Sample ID	Acetone	Benzene	Carbon tetrachloride	Chloroform	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,2-Dichloroethane	1,1-Difluoroethane	Ethylbenzene	Methylene chloride	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,1,2-Trichloro-1,2,2-trifluoroethane	p- & m-Xylenes	o-Xylene	Total Xylenes	Methane (CH4)
Units			micrograms per cubic meter (µg/m ³)																			ppmv
Method			USEPA Method TO-15 SIM																			ASTM-D1946
DTSC HERO HHRA Note 3 SL, Unless Otherwise Noted			32,000 [^]	0.097	0.47	0.12*	0.26*	100*	0.11*	42,000*	1.1*	1.0	0.46	310	1,000	2.0**	1,300	5,200*	100*	100*	100*	50,000***
11	3/3/2023	IA-11-1	36	2.5	<0.20	0.89	<0.20	2.2	<0.10	0.70 J	1.2	<0.20	<0.10	7.1	<0.10	<0.10	1.7	0.58	4.3	1.6	5.9	54
		IA-11-2	34	2.3	<0.20	0.97	<0.20	2.2	<0.10	0.70 J	1.1	<0.20	<0.10	6.9	<0.10	<0.10	1.5	0.60	4.1	1.5	5.6	5.3
		AA-11-1	5.4	0.88	<0.20	<0.05	<0.20	2.3	<0.10	0.70 J	0.44	<0.20	<0.10	1.8	<0.10	<0.10	1.4	0.60	1.4	0.51	2.0	5.9
		AA-11-1-D	4.6	0.86	<0.20	<0.05	<0.20	2.2	<0.10	0.68 J	0.40	<0.20	<0.10	1.8	<0.10	<0.10	1.3	0.59	1.4	0.48	1.9	2.3
12	3/24/2023	IA-12-1	26	0.80	<0.20	<0.05	<0.20	2.7	<0.10	0.33 J	0.78	<2.0	0.81	2.4	<0.10	<0.10	1.3	0.57	1.8	0.78	2.6	2.2
		IA-12-2	25	0.72	<0.20	<0.05	<0.20	3.0	<0.10	0.44 J	1.0	<0.20	<0.10	3.5	<0.10	<0.10	1.3	0.57	2.1	0.95	3.1	2.3
		IA-12-2-D	28	0.74	<0.20	<0.05	<0.20	2.9	<0.10	0.45 J	1.1	<2.0	<0.10	3.1	<0.10	<0.10	1.3	0.58	2.2	0.99	3.2	1.9 J
		AA-12-1	5.9 J	0.55	<0.20	<0.05	<0.20	2.6	<0.10	0.51 J	0.23	<0.20	<0.10	1.1	<0.10	<0.10	1.4	0.62	0.86	0.29	1.2	2.4
13	3/8/2023	IA-13-1	15 J	1.4	<0.20	0.56	<0.20	2.2	<0.10	2.5 J	1.0	<0.20	<0.10	4.1	<0.10	<0.10	1.4	0.60	3.8	1.3	5.0	3.0
		IA-13-2	14 J	1.4	<0.22	0.75	<0.22	2.3	<0.11	2.4 J	1.1	<0.22	<0.11	4.2	<0.11	<0.11	1.4	0.60	3.6	1.2	4.8	6.3
		AA-13-1	3.9	0.75	<0.20	<0.05	<0.20	2.6	<0.10	<5.0	0.32	<0.20	<0.10	1.5	<0.10	<0.10	1.4	0.61	1.1	0.39	1.5	3.4
14	3/9/2023	IA-14-1	23	1.3	<0.20	<0.05	<0.20	2.4	<0.10	6.8 J	1.3	<0.20	<0.10	5.3	<0.10	<0.10	1.5	0.60	3.3	1.2	4.5	4.3
		IA-14-2	20	1.5	<0.20	<0.05	<0.20	2.2	<0.10	5.7 J	1.4	<0.20	<0.10	5.4	<0.10	<0.10	1.5	0.61	3.8	1.3	5.1	3.0
		AA-14-1	7.1	0.92	<0.20	<0.05	<0.20	2.5	<0.10	0.68 J	0.47	<0.20	<0.10	2.4	<0.10	<0.10	1.5	0.62	1.6	0.55	2.1	2.5
15	2/23/2023	IA-15-1	24	0.40	<0.20	<0.05	<0.20	2.8	<0.10	<5.0	0.13	<0.20	<0.10	0.61	<0.10	<0.10	1.4	0.61	0.41	0.15	0.56	5.5
		IA-15-2	30	0.39	<0.20	<0.05	<0.20	3.4	<0.10	<5.0	0.13	<0.20	<0.10	0.64	<0.10	<0.10	1.4	0.61	0.42	0.15	0.57	24
		AA-15-1	2.5	0.40	<0.20	<0.05	<0.20	3.1	<0.10	<5.0	0.11	<0.20	<0.10	0.59	<0.10	<0.10	1.4	0.63	0.38	0.14	0.52	3.7
16	2/23/2023	IA-16-1	23	0.48	<0.20	<0.05	3.1	3.4	<0.10	120	0.24	<0.20	<0.10	1.7	<0.10	<0.10	1.4	0.62	0.75	0.27	1.0	9.8
		IA-16-2	22	0.49	<0.20	<0.05	4.2	3.5	<0.10	160	0.20	<0.20	<0.10	1.3	<0.10	<0.10	1.5	0.64	0.65	0.25	0.90	33
		AA-16-1	2.2	0.42	<0.20	<0.05	<0.20	3.1	<0.10	<5.0	0.12	<0.20	<0.10	0.61	<0.10	<0.10	1.5	0.65	0.40	0.14	0.55	2.3
		AA-16-1-D	2.9	0.42	<0.20	<0.05	<0.20	3.2	<0.10	<5.0	0.12	<0.20	<0.10	0.62	<0.10	<0.10	1.5	0.66	0.42	0.15	0.57	3.7
17	4/5/2023	IA-17-1	42	1.1	<0.20	<0.05	170	3.5	<0.10	0.65 J	0.29	1.3 J	<0.10	2.4	<0.10	0.21	1.6	0.62	1.0	0.40	1.4	46
		IA-17-2	31	1.0	<0.20	<0.05	120	2.5	<0.10	0.66 J	0.33	0.90 J	<0.10	1.7 J	<0.10	0.21	1.5	0.61	1.1	0.44	1.5	49
		AA-17-1	13	0.69	<0.20	<0.05	<0.20	3.0	<0.10	<5.0	0.25	<0.20	<0.10	1.3	<0.10	<0.1	1.6	0.71	0.97	0.34	1.3	53
18	2/22/2023	IA-18-1	7.8 J	0.52	<0.20	<0.05	<0.20	3.4	0.34	2.0 J	0.15	<0.20	<0.10	0.82	<0.10	<0.10	1.5	0.63	0.48	0.17	0.65	6.3
		IA-18-1-D	6.8 J	0.54	<0.20	<0.05	<0.20	3.0	<0.10	1.7 J	0.16	<0.20	<0.10	0.86	<0.10	<0.10	1.5	0.66	0.52	0.19	0.71	8.5
		IA-18-2	9.8 J	0.51	<0.20	<0.05	<0.20	3.4	<0.10	3.1 J	0.15	<0.20	<0.10	0.90	<0.10	<0.10	1.5	0.65	0.50	0.18	0.68	30
		AA-18-1	3.2	0.43	<0.20	<0.05	<0.20	3.0	<0.10	0.76 J	0.12	<0.20	<0.10	0.60	<0.10	<0.10	1.5	0.63	0.42	0.15	0.56	2.2
19	3/6/2023	IA-19-1	72	0.79	<0.20	<0.05	<0.20	2.3	<0.10	39 J	0.42	2.6 J	<0.10	1.8	<0.10	<0.10	1.4	0.60	1.4	0.56	2.0	86
		IA-19-2	17 J	0.84	<0.20	0.70	<0.20	2.4	<0.10	45 J	0.42	2.3 J	<0.10	1.8	<0.10	<0.10	1.4	0.60	1.4	0.65	2.1	3.7
		AA-19-1	2.6	0.59	<0.20	<0.05	<0.20	2.4	<0.10	0.26 J	0.21	<0.20	<0.10	0.99	<0.10	<0.10	1.4	0.61	0.75	0.26	1.0	2.0

Table 3 - Select Volatile Organic Compounds (VOCs) in Indoor and Ambient/Outdoor Air (TO-15 SIM)
City Terrace Community, East Los Angeles, CA

Location ID	Date Sampled	Sample ID	Acetone	Benzene	Carbon tetrachloride	Chloroform	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,2-Dichloroethane	1,1-Difluoroethane	Ethylbenzene	Methylene chloride	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,1,2-Trichloro-1,2,2-trifluoroethane	p- & m-Xylenes	o-Xylene	Total Xylenes	Methane (CH4)	
Units			micrograms per cubic meter (µg/m ³)																		ppmv		
Method			USEPA Method TO-15 SIM																		ASTM-D1946		
DTSC HERO HHRA Note 3 SL, Unless Otherwise Noted			32,000 [^]	0.097	0.47	0.12 [*]	0.26 [*]	100 [*]	0.11 [*]	42,000 [*]	1.1 [*]	1.0	0.46	310	1,000	2.0 ^{**}	1,300	5,200 [*]	100 [*]	100 [*]	100 [*]	50,000 ^{***}	
35	3/3/2023	IA-35-1	7.6 J	0.87	<0.20	<0.05	<0.20	2.0	<0.10	1.0 J	0.45	<0.20	<0.10	1.9	<0.10	<0.10	1.4	0.59	1.4	0.52	1.9	140	
		IA-35-2	8.1 J	0.88	<0.20	<0.05	<0.20	2.2	<0.10	1.7 J	0.50	<0.20	<0.10	2.1	0.082 J	<0.10	<0.10	1.4	0.60	1.7	0.60	2.3	2.9
		AA-35-1	4.5	0.90	<0.20	<0.05	<0.20	2.2	<0.10	0.72 J	0.43	<0.20	<0.10	2.0	<0.10	<0.10	<0.10	1.4	0.60	1.5	0.52	2.0	5.5
36	3/3/2023	IA-36-1	15	0.85	<0.20	<0.05	3.9	2.0	<0.10	3.3 J	0.56	<0.20	<0.10	2.3	<0.10	<0.10	1.3	0.57	1.9	0.65	2.6	2.1	
		IA-36-2	6.3	0.87	<0.20	<0.05	<0.20	2.0	<0.10	3.4 J	0.48	<0.20	<0.10	2.4	<0.10	<0.10	1.3	0.57	1.7	0.58	2.3	79	
		AA-36-1	4.1	0.85	<0.20	<0.05	<0.20	2.1	<0.10	0.86 J	0.43	<0.20	<0.10	1.9	<0.10	<0.10	1.3	0.57	1.5	0.53	2.0	2.1	
37	3/27/2023	IA-37-1	40	0.79	<0.20	<0.05	<0.20	2.3	<0.10	2.6 J	0.42	<0.20	<0.10	2.3	<0.10	<0.10	1.5	0.56	1.5	0.54	2.0	2.7	
		IA-37-1-D	32	0.85	<0.20	<0.05	<0.20	2.5	<0.10	2.7 J	0.43	<0.20	<0.10	1.8 J	<0.10	<0.10	1.6	0.59	1.6	0.58	2.1	4.8	
		IA-37-2	31	0.81	<0.20	<0.05	<0.20	2.3	<0.10	2.1 J	0.51	<0.20	<0.10	1.8 J	<0.10	<0.10	1.5	0.56	1.6	0.54	2.2	2.6	
		AA-37-1	8.3	0.67	<0.20	<0.05	<0.20	2.4	<0.10	0.54 J	0.28	<0.20	<0.10	1.4	<0.10	<0.10	1.3	0.58	1.0	0.36	1.4	2.0	

Notes:

Only analytes with one or more detections are included in this table.
 USEPA = United States Environmental Protection Agency.
 DTSC HERO HHRA Note 3 SL for Residential Air = California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3 Screening Level (SL) for Residential Air (updated May 2022).
 SFBRWQCB ESLs for Indoor Air = San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels for Indoor Air (2019, Revision 2).
[^] = Screening level references SFBRWQCB ESLs for Indoor Air (2019, Revision 2) because USEPA Regional Screening Levels and DTSC HERO HHRA Note 3 Screening Levels not available for selected analyte.
^{*} = Screening level references USEPA Regional Screening Level for Residential Air THQ = 1.0 (May 2022) because DTSC HERO HHRA Note 3 SL not available for the selected analyte.

Italics indicate a duplicate sample.
^{**} = Screening level references DTSC HERO HHRA Note 5 Screening Level for Residential Air for Trichloroethylene (August 2014).
^{***} = 100% of the Lower Explosive Limit (LEL) for methane.
 Yellow highlight indicates concentration exceeds SL.
 Concentrations detected above the method detection limit are in **bold**.
 <X = analyte not detected above the laboratory method detection limit (X).
 J = flag indicates detection is below the practical quantitation limit and is an estimated concentration.
 ppmv = parts per million volume.

Table 4 - Select Volatile Organic Compounds (VOCs) in Indoor and Ambient/Outdoor Air (TO-15 SCAN)
City Terrace Community, East Los Angeles, CA

Location ID	Date Sampled	Sample ID	Acetone	Benzene	1,3-Butadiene	Carbon disulfide	Chloroform	Chloromethane	Cyclohexane	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,2-Dichloroethane	1,1-Difluoroethane	Ethanol	Ethyl acetate	Ethylbenzene	1-Ethyl-4-methylbenzene	n-Heptane	Hexane	Isopropyl alcohol	Methylene chloride	Methyl ethyl ketone	Methyl isobutyl ketone	Styrene	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	Vinyl chloride	p- & m-Xylenes	o-Xylene	Total Xylenes	Methane (CH4)
			micrograms per cubic meter (µg/m³) USEPA Method TO-15																																		ppmv ASTM-D1946
Units Method			HHRA Note 3 SL, Unless Otherwise Noted																																		50,000***
33	3/8/2023	IA-33-1	47	5.9	<2.0	<2.0	<5.0	1.5 J	<2.0	0.72 J	2.2 J	<5.0	46	190	1.4 J	0.56 J	<5.0	0.41 J	<5.0	60	<10	2.1	<5.0	0.60 J	<2.0	<2.0	3.7	<2.0	1.3 J	<5.0	<5.0	<2.0	<2.0	1.7 J	0.56 J	2.3 J	100
		IA-33-2	47	5.5	1.4 J	<2.0	<5.0	1.5 J	0.41 J	<5.0	2.0 J	<5.0	72	170	1.6 J	0.78 J	<5.0	<2.0	<5.0	41	<10	1.9 J	<5.0	0.81 J	<2.0	<2.0	4.5	<2.0	1.3 J	<5.0	<5.0	<2.0	<2.0	2.2 J	0.69 J	2.9 J	4.4
34	3/10/2023	AA-33-1	10	0.77 J	<2.0	<2.0	<5.0	1.3 J	<2.0	<5.0	2.3 J	<5.0	<5.0	6.2	<2.0	<5.0	<5.0	<2.0	0.42 J	3.1	<10	0.71 J	<5.0	<5.0	<2.0	<2.0	1.5 J	<2.0	1.3 J	<5.0	<5.0	<2.0	<2.0	0.91 J	<5.0	0.91 J	3.5
		IA-34-1	70	0.93 J	<2.0	<2.0	<5.0	<2.0	<5.0	1.9 J	<5.0	<5.0	110	110	1.6 J	0.56 J	<5.0	0.45 J	<5.0	6.9	<10	1.5 J	<5.0	0.81 J	<2.0	<2.0	2.2	<2.0	1.3 J	<5.0	<5.0	<2.0	<2.0	2.0 J	0.78 J	2.8 J	2.3
		IA-34-2	61	0.93 J	<2.0	<2.0	<5.0	<2.0	<5.0	1.8 J	<5.0	<5.0	100	100	1.3 J	0.48 J	<5.0	0.49 J	<5.0	6.3	<10	1.5 J	<5.0	0.47 J	<2.0	<2.0	2.1	<2.0	1.3 J	0.84 J	<5.0	<2.0	<2.0	1.6 J	0.61 J	2.2 J	6.3
		IA-34-2-D	55	0.93 J	<2.0	<2.0	<5.0	<2.0	<5.0	1.9 J	<5.0	<5.0	110	110	1.4 J	0.48 J	<5.0	0.53 J	<5.0	6.6	<10	1.4 J	<5.0	0.47 J	<2.0	<2.0	2.1	<2.0	1.3 J	0.98 J	<5.0	<2.0	<2.0	1.6 J	0.61 J	2.2 J	2.3
35	3/3/2023	AA-34-1	10	0.67 J	<2.0	<2.0	<5.0	<2.0	<5.0	1.9 J	<5.0	<5.0	5.6	<2.0	<5.0	<5.0	<2.0	<5.0	2.4	<10	0.97 J	<5.0	<5.0	<2.0	<2.0	1.6 J	<2.0	1.3 J	0.54 J	<5.0	<2.0	<2.0	1.1 J	<5.0	1.1 J	86	
		IA-35-1	17	0.89 J	<2.0	<2.0	<5.0	1.2 J	<2.0	<5.0	2.1 J	<5.0	<5.0	38	2.5	<5.0	<5.0	<2.0	<5.0	5.3	<10	1.3 J	<5.0	<5.0	<2.0	<2.0	1.9 J	<2.0	1.3 J	<5.0	<5.0	<2.0	<2.0	1.1 J	<5.0	1.1 J	140
		IA-35-2	17	0.86 J	<2.0	<2.0	<5.0	1.3 J	<2.0	<5.0	2.3 J	<5.0	2.4 J	56	1.1 J	<5.0	<5.0	<2.0	0.81 J	8.9	<10	1.1 J	<5.0	<5.0	<2.0	<2.0	2.0	<2.0	1.3 J	<5.0	<5.0	<2.0	<2.0	1.4 J	0.48 J	1.9 J	2.9
36	3/3/2023	AA-35-1	10	0.89 J	<2.0	<2.0	<5.0	1.1 J	<2.0	<5.0	2.1 J	<5.0	<5.0	7.9	<2.0	<5.0	<5.0	<2.0	0.56 J	4.5	<10	0.83 J	<5.0	<5.0	<2.0	<2.0	1.9 J	<2.0	1.3 J	<5.0	<5.0	<2.0	<2.0	1.2 J	0.43 J	1.6 J	5.5
		IA-36-1	34	0.89 J	<2.0	<2.0	<5.0	<2.0	0.38 J	<5.0	2.1 J	<5.0	3.4 J	110	1.2 J	<5.0	<5.0	0.74 J	0.67 J	130	<10	1.2 J	<5.0	0.51 J	<2.0	<2.0	2.3	<2.0	1.3 J	0.49 J	<5.0	<2.0	<2.0	1.4 J	0.52 J	2.0 J	2.1
		IA-36-2	14	0.93 J	<2.0	<2.0	<5.0	<2.0	<2.0	<5.0	2.1 J	<5.0	3.6 J	18	<2.0	<5.0	<5.0	<2.0	<5.0	26	<10	0.86 J	<5.0	0.51 J	<2.0	<2.0	2.3	<2.0	1.2 J	<5.0	<5.0	<2.0	<2.0	1.4 J	0.52 J	1.9 J	79
37	3/27/2023	AA-36-1	9.1	0.86 J	<2.0	<2.0	<5.0	<2.0	<2.0	<5.0	2.1 J	<5.0	<5.0	7.3	<2.0	<5.0	<5.0	<2.0	<5.0	3.2	<10	<2.0	<5.0	<5.0	<2.0	<2.0	1.9 J	<2.0	1.3 J	<5.0	<5.0	<2.0	<2.0	1.2 J	<5.0	1.2 J	2.1
		IA-37-1	34	0.83 J	<2.0	<2.0	<5.0	1.4 J	<2.0	<5.0	1.9 J	<5.0	2.9 J	210	1.8 J	0.65 J	<5.0	0.70 J	1.2 J	480	<10	1.4 J	<5.0	<5.0	<2.0	<2.0	2.4	<2.0	1.2 J	0.64 J	<5.0	<2.0	<2.0	2.2 J	0.78 J	3.0 J	2.7
		IA-37-1-D	37	0.73 J	<2.0	0.34 J	<5.0	1.4 J	<2.0	<5.0	1.8 J	<5.0	2.6 J	210	1.6 J	0.43 J	<5.0	<2.0	0.67 J	470	<10	1.3 J	<5.0	<5.0	<2.0	<2.0	2.0	<2.0	1.1 J	<5.0	<5.0	<2.0	<2.0	1.4 J	0.56 J	2.0 J	4.8
		IA-37-2	32	0.77 J	<2.0	<2.0	<5.0	1.3 J	<2.0	<5.0	1.9 J	<5.0	2.2 J	230	2.5 J	0.52 J	<5.0	<2.0	0.74 J	480	<10	1.1 J	<5.0	<5.0	<2.0	<2.0	2.1	<2.0	1.2 J	0.59 J	<5.0	<2.0	<2.0	1.6 J	0.56 J	2.2 J	2.6
37	3/27/2023	AA-37-1	9.2	0.93 J	<2.0	<2.0	<5.0	1.0 J	<2.0	<5.0	1.9 J	<5.0	<5.0	8.6	<2.0	0.91 J	0.59 J	1.0 J	1.7 J	4.2	<10	0.71 J	<5.0	<5.0	<2.0	<2.0	2.1	<2.0	1.3 J	0.74 J	<5.0	<2.0	<2.0	3.7 J	1.0 J	4.8 J	2.0

Notes:

Only analytes with one or more detections are included in this table.
 DTSC HERO HHRA Note 3 SL for Residential Air = California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3 Screening Level (SL) for Residential Air (updated May 2022)
 SFBRWQCB ESLs for Indoor Air = San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels for Indoor Air (2019, Revision 2)
 ^ = Screening level references SFBRWQCB ESLs for Indoor air (2019, Revision 2) because USEPA Regional Screening Levels and DTSC HERO HHRA Note 3 Screening Levels not available for selected analyte.
 * = Screening level references USEPA Regional Screening Level for Residential Air THQ = 1.0 (May 2022) because DTSC HERO HHRA Note 3 SL not available for the selected analyte.
 ** = Screening level references DTSC HERO HHRA Note 5 Screening Level for Residential Air for Trichloroethylene (August 2014)

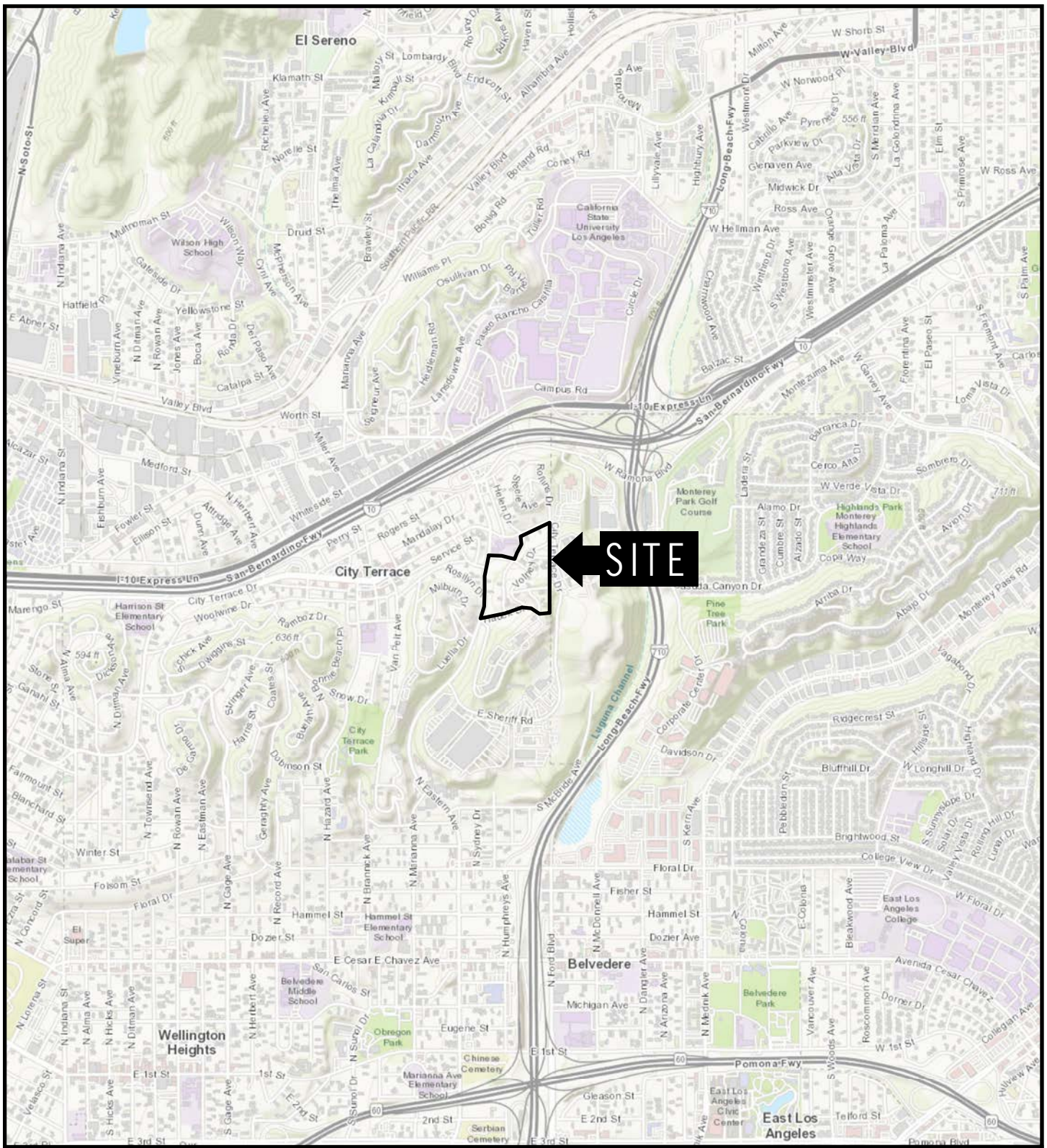
ppmv = parts per million volume
 NA = No available screening level
Italics indicate a duplicate sample
 Yellow highlight indicates concentration exceeds SL
 Concentrations detected above the method detection limit are in **bold**
 <X = analyte not detected above the laboratory method detection limit (X)
 J = flag indicates detection is below the practical quantitation limit and is an estimated concentration.

Soil Gas and Indoor Air Sampling Report
City Terrace, East Los Angeles, California

FIGURES

1. Site Location Map
2. Site and Vicinity
3. Site Plan with Sample Locations
4. Benzene Concentrations in Soil Gas
5. Benzene Concentrations in Indoor and Ambient/Outdoor Air

S:\CLIENTS\2855\###\BBK CITY TERRACE CTR\09GIS\SITE\LOCATIONTEMPLATEWITHPOLYGON.MXD



QUADRANGLE LOCATION



Title:
SITE LOCATION MAP
 CITY TERRACE COMMUNITY
 LOS ANGELES, CALIFORNIA 90063






Prepared for:
 COUNTY OF LOS ANGELES

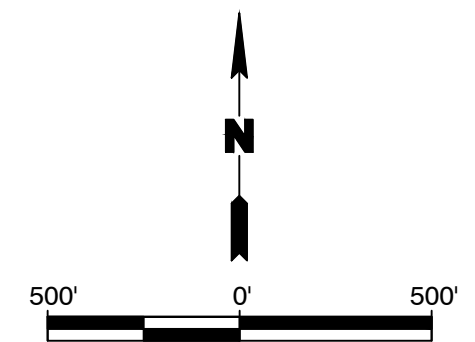
ROUX	Compiled by: T.C.	Date: MAY 5 2023	FIGURE 1
	Prepared by: T.C.	Scale: AS SHOWN	
	Project Mgr: A.M.	Project: 2855.0004L	
	File: SiteLocationTemplateWithPolygon.mxd		


S:\CLIENTS\2855_###\LBBK CITY TERRACE CTR\10CAD\020_2855.0004L_SITE AND VICINITY.DWG



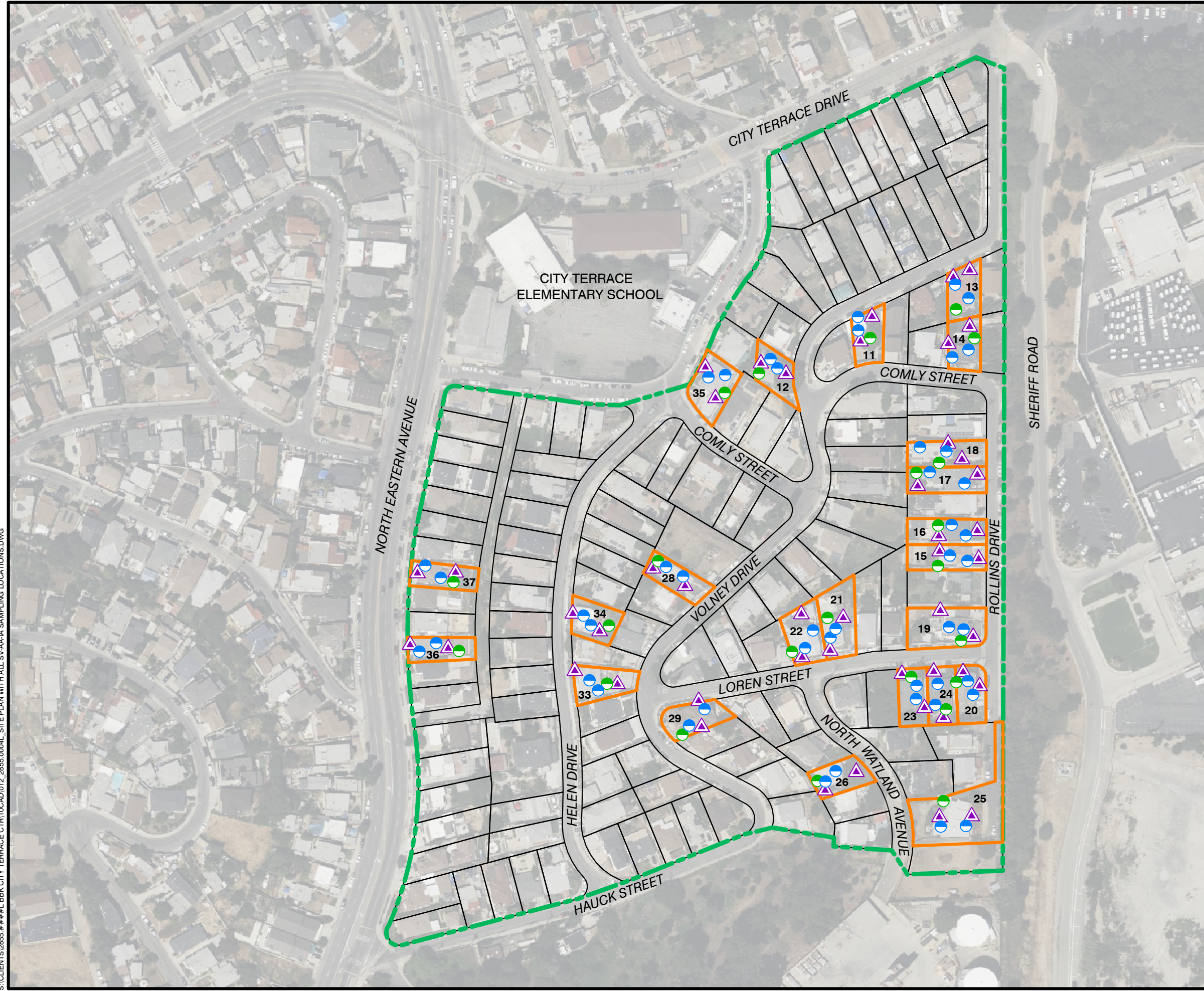
LEGEND

-  APPROXIMATE SAMPLING AREA BOUNDARY
-  COUNTY OWNED PORTION OF COGEN LANDFILL
-  APPROXIMATE EXTENTS OF FREEWAYS
-  APPROXIMATE EXTENTS OF FORMER COGEN LANDFILL
-  APPROXIMATE EXTENTS OF FORMER BLANCHARD LANDFILL









Title:			
SITE AND VICINITY			
CITY TERRACE COMMUNITY LOS ANGELES, CALIFORNIA 90063			
Prepared for:			
COUNTY OF LOS ANGELES			
	Compiled by: C.J.	Date: 5 MAY 2023	FIGURE 2
	Prepared by: M.B.	Scale: 1" = 500'	
	Project Mgr: A.M.	Project: 2855.0004L	
	File: 020_2855.0004L_SITE AND VICINITY.DWG		

S:\CLIENTS\2855_#\###\LBBX\CITY TERRACE\CTR10CAD\012_2855.0004L_SITE PLAN WITH ALL SV\AA-IA_SAMPLING LOCATIONS.DWG

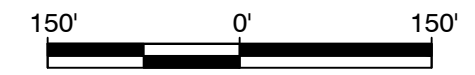


LEGEND

-  APPROXIMATE SITE BOUNDARY
-  PARCEL BOUNDARY (SOURCE: LA COUNTY TAX ASSESSOR)
-  INVESTIGATION LOCATIONS WITH RESIDENCE ID
-  SOIL GAS PROBE LOCATION
-  AMBIENT/OUTDOOR AIR LOCATION
-  INDOOR AIR LOCATION

NOTES

1. ALL SAMPLE LOCATIONS ARE APPROXIMATE BASED ON FIELD MEASUREMENTS



Title:

**SITE PLAN WITH
SAMPLE LOCATIONS**

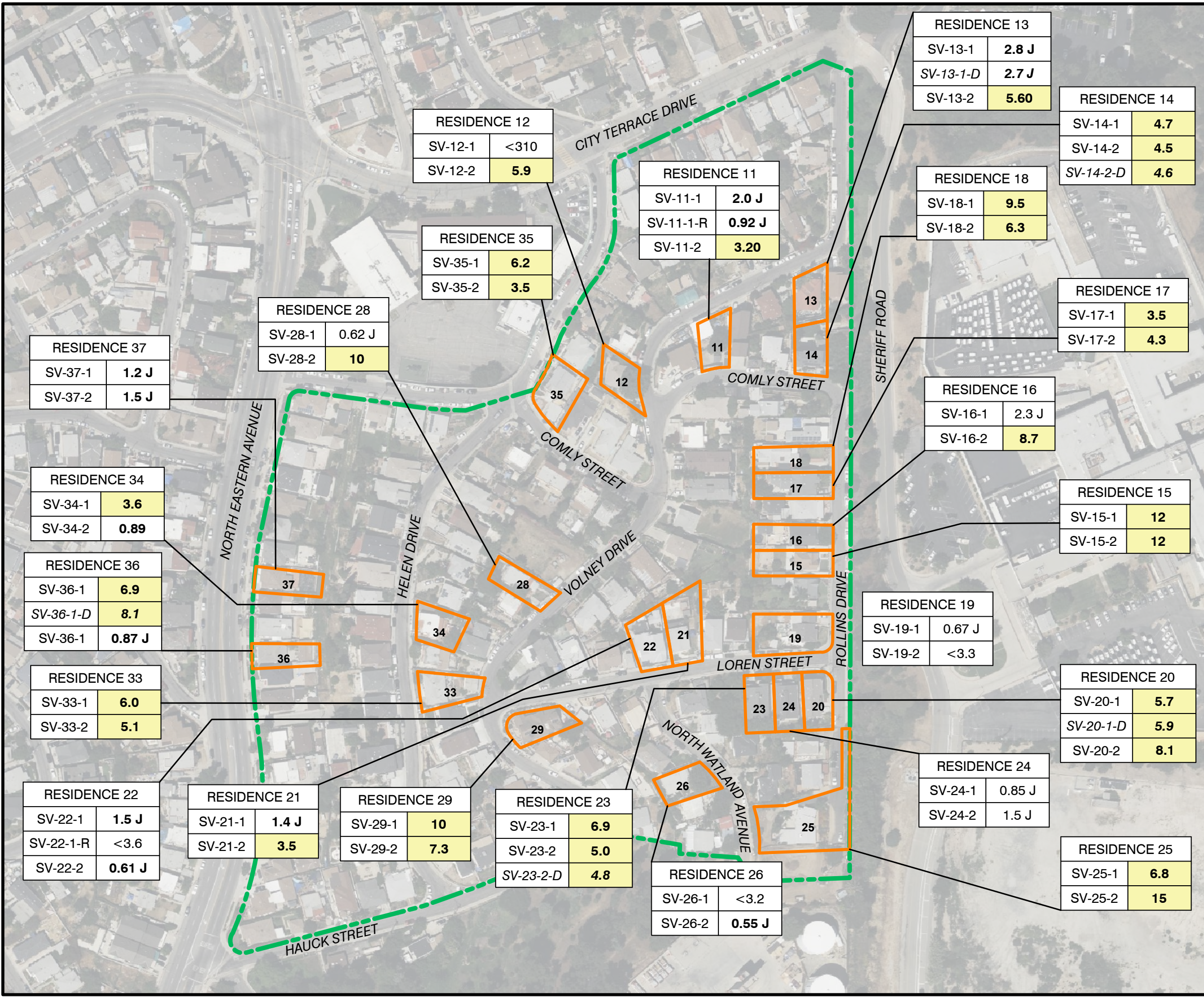
CITY TERRACE COMMUNITY
MONTEREY PARK, CALIFORNIA 90063

Prepared for:

COUNTY OF LOS ANGELES

	Compiled by: C.J.	Date: 5 MAY 2023	FIGURE 3
	Prepared by: T.C.	Scale: 1" = 150'	
	Project Mgr: A.M.	Project: 2855.0004	
	File: 012_2855.004L_SITE PLAN WITH ALL SV.DWG		

S:\CLIENTS\2855_#\#\#L\BBK CITY TERRACE CTRY\04\013_2855.0004L_SITE PLAN WITH FULL BENZENE RESULTS FOR IA, AA, AND SV.DWG

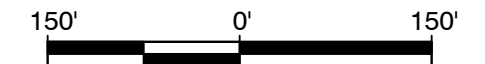


LEGEND

- - - APPROXIMATE SITE BOUNDARY
- INVESTIGATION LOCATIONS

NOTES

1. SV = SOIL VAPOR / SOIL GAS
2. ALL UNITS IN MICROGRAMS PER CUBIC METER ($\mu\text{g}/\text{m}^3$)
3. YELLOW HIGHLIGHT INDICATES CONCENTRATION EXCEEDS CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL (DTSC) HUMAN END ECOLOGICAL RISK ASSESSMENT (HHRA) NOTE 3 SCREENING LEVEL (SL) FOR RESIDENTIAL AIR (UPDATED MAY 2022) WITH 0.03 ATTENUATION FACTOR (AF) FOR BENZENE = $3.2 \mu\text{g}/\text{m}^3$
4. *ITALICS* INDICATE A DUPLICATE SAMPLE
5. R = REPLICATE RESAMPLE
6. <X = ANALYTE NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT (RL)
7. J = FLAG INDICATES DETECTION IS BELOW THE RL AND IS AN ESTIMATED CONCENTRATION
8. CONCENTRATIONS DETECTED ABOVE RL ARE IN **BOLD FONT**

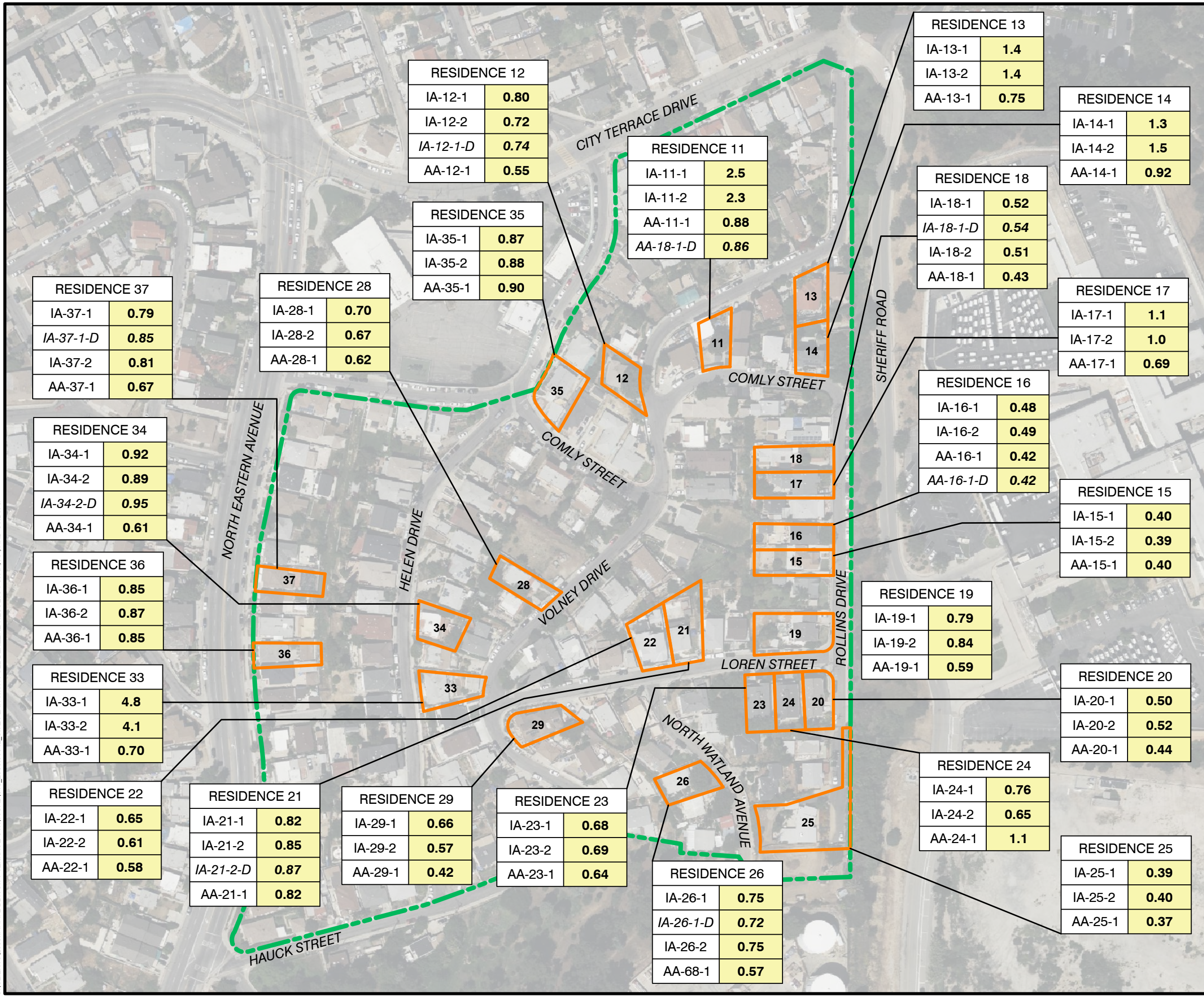


Title: **BENZENE CONCENTRATIONS IN SOIL GAS**
 CITY TERRACE COMMUNITY
 MONTEREY PARK, CALIFORNIA 90063

Prepared for: COUNTY OF LOS ANGELES

ROUX	Compiled by: C.J.	Date: 17 MAY 2023	FIGURE 4
	Prepared by: T.C.	Scale: 1" = 150'	
	Project Mgr: A.M.	Project: 2855.0004	
	File: 013_2855.0004L_SITE PLAN WITH FULL RESULTS		

S:\CLIENTS\2855_#\#\#L\BBK CITY TERRACE CTR\10CAD\013_2855.0004L_SITE PLAN WITH FULL BENZENE RESULTS FOR IA, AA, AND SV.DWG

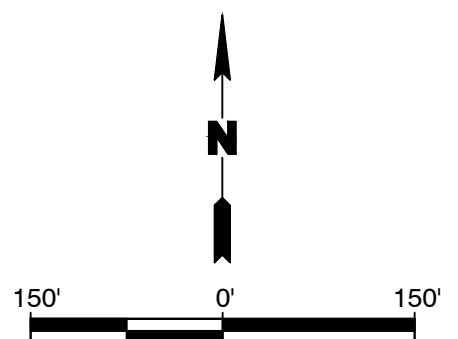


LEGEND

- - - APPROXIMATE SITE BOUNDARY
- INVESTIGATION LOCATIONS

NOTES

1. ALL SAMPLES COLLECTED OVER AN APPROXIMATELY 24-HOUR PERIOD
2. IA = INDOOR AIR
3. AA = AMBIENT/OUTDOOR AIR
4. ALL UNITS IN MICROGRAMS PER CUBIC METER (µg/m³)
5. YELLOW HIGHLIGHT INDICATES CONCENTRATION EXCEEDS CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL (DTSC) HUMAN END ECOLOGICAL RISK ASSESSMENT (HHRA) NOTE 3 SCREENING LEVEL (SL) FOR RESIDENTIAL AIR (UPDATED MAY 2022) FOR BENZENE = 0.097 µg/m³
6. *ITALICS* INDICATE A DUPLICATE SAMPLE
7. CONCENTRATIONS DETECTED ABOVE METHOD DETECTION LIMIT ARE IN **BOLD FONT**



Title: **BENZENE CONCENTRATIONS IN INDOOR AND AMBIENT/OUTDOOR AIR**
 CITY TERRACE COMMUNITY
 MONTEREY PARK, CALIFORNIA 90063

Prepared for: COUNTY OF LOS ANGELES

ROUX	Compiled by: C.J.	Date: 17 MAY 2023	FIGURE 5
	Prepared by: T.C.	Scale: 1" = 150'	
	Project Mgr: A.M.	Project: 2855.0004	
	File: 013_2855.0004L_SITE PLAN WITH FULL.DWG		

Soil Gas and Indoor Air Sampling Report
City Terrace, East Los Angeles, California

APPENDICES

- A. Example Resident and Technical Survey Forms
- B. Soil Boring Logs
- C. Probe Construction Schematic
- D. Analytical Laboratory Reports
- E. Human Health Screening Evaluation

Soil Gas and Indoor Air Sampling Report
City Terrace, East Los Angeles, California

APPENDIX A

Example Resident and Technical Survey Forms

INDOOR AIR QUALITY BUILDING SURVEY
(For Resident)

Date: _____

Address: _____

What type of heating system(s) are used in this building? (Circle all that apply)

Hot Air Circulation Heat Pump Steam Radiation Wood Stove
Hot Air Radiation Unvented Kerosene Heater Electric Baseboard Other (specify): _____

What type (s) of fuel(s) are used in this building? (Circle all that apply)

Natural Gas Electric Coal Other (specify): _____
Fuel Oil Wood Solar

What type of ventilation systems are present and/or currently operating in the building? (Circle all that apply)

Central Air Conditioning Mechanical Fans Bathroom Ventilation Fan
Individual Air Conditioning Units Kitchen Range Hood Air-to-Air Heat Exchanger
Open windows Other (specify): _____

Do one or more smokers occupy this building on a regular basis?

Has anybody smoked in the building in the last 48 hours?

Does the building have an attached garage?

If so, is a car usually parked in the garage?

Do the occupants of the building frequently have their clothes dry-cleaned?

Was there any recent remodeling or painting done in the building?

Are there any pressed wood products in the building (e.g., hardwood plywood wall paneling, particleboard, fiberboard)?

Are there any new upholstery, drapes or other textiles in the building?

Has the building been treated with any insecticides/pesticides? If so, what chemicals are used and how often are they applied?

Do any of the occupants apply pesticides/herbicides in the yard or garden? If so, what chemicals are used and how often are they applied?

Sources of Chemical Contaminants:

Which of these items are present in the building? (Check all that apply)

Potential VOC Source	Location of Source	Removed prior to sampling? (Yes/No)
Paints or paint thinners		
Gas-powered equipment		
Gasoline storage cans		
Cleaning solvents		
Air fresheners		
Oven cleaners		
Carpet/upholstery cleaners		
Hairspray		
Nail polish/polish remover		
Bathroom cleaner		
Appliance cleaner		
Furniture/floor polish		
Moth balls		
Fuel tank		
Wood stove		
Fireplace		
Perfume/colognes		
Scented trees, wreaths, potpourri, etc.		
Hobby supplies (e.g., solvents, paints, lacquers, glues, photographic darkroom chemicals)		
Other		

INDOOR AIR QUALITY BUILDING SURVEY
(For Technician)

Date: _____

Address: _____

Building Construction Characteristics:

Single Family Multiple Family Duplex Apartment House

Other (specify) _____

General Description of Building Construction Materials: _____

How many occupied stories does the building have? _____

What type of basement does the building have? (Circle all that apply)

Full basement Crawlspace Slab-on-Grade Other (specify) _____

What are the characteristics of the basement? (Circle all that apply)

Finished	<u>Basement Floor:</u>	<u>Foundation Walls:</u>	<u>Moisture:</u>
Unfinished	Concrete	Poured Concrete	Wet
	Dirt	Block	Damp
	Other (specify) _____	Layed Up Stone	Dry

Is a basement sump present? (Y/N) _____

Does the basement have any of the following characteristics (i.e., preferential pathways into the building) that might permit soil vapor entry? (Circle all that apply)

Cracks	Pipes/Utility Conduits	Other (specify) _____
Foundation/slab drainage	Sump pumps	

Outdoor Sources of Contamination:

Is there any stationary emission source in the vicinity of the building? _____

Are there any mobile emission sources (e.g., highway; bus stop; high-traffic area) in the vicinity of the building?

Weather Conditions During Sampling:

Outside Temperature (°F): _____

Prevailing wind direction: _____

Describe the general weather conditions (e.g., sunny, cloudy, rain): _____

Was there any significant precipitation (0.1 inches) within 12 hours preceding the sampling event? _____

Type of ground cover (e.g., grass, pavement, etc.) outside the building: _____

General Comments

Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contaminants to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building?

Floor Plan Sketch(es):

Soil Gas and Indoor Air Sampling Report
City Terrace, East Los Angeles, California

APPENDIX B

Soil Boring Logs



ROUX ASSOCIATES, INC.
*Environmental Consulting
 & Management*

5150 E. Pacific Coast Highway, Suite 450
 Long Beach, California 90804
 Telephone: (310) 879 - 4900

BORING LOG

WELL NO. SV-11-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 3/1/23-3/1/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Fat CLAY (CL): dark brown, moist, few silt, high plasticity, no odor.		0.0	.....
.....		Silty Lean CLAY (CL): brown, moist, little silt, low plasticity, no odor.		0.0	.....
.....		Clayey SILT (ML): dark brown, moist, few fine to medium sand, low plasticity, no odor.		0.0	.....
5					5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



ROUX ASSOCIATES, INC.
Environmental Consulting
& Management

5150 E. Pacific Coast Highway, Suite 450
Long Beach, California 90804
Telephone: (310) 879 - 4900

BORING LOG

WELL NO. SV-11-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 3/1/23-3/1/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS	
.....		Silty Lean CLAY (CL): dark brown, moist, few fine to medium sand, low plasticity, no odor.		0.0	.....
.....		Silty Lean CLAY (CL): brown, moist, few fine to medium sand, low plasticity.		0.0	.....
.....					
5					0.0	5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-12-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace	LOCATION City Terrace	
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /	GEOGRAPHIC AREA	
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN: TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 3/22/23-3/22/23
(Feet)		GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Lean CLAY (CL): dark brown, moist, trace roots, few silt, low plasticity, no odor.			.....
.....		Silty Lean CLAY (CL): light brown to brown, dry, low plasticity, no odor.			.....
.....				
5					5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-12-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN: TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 3/22/23-3/22/23
(Feet)		GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Lean CLAY (CL): dark brown, moist, few roots, low to medium plasticity, no odor.			.....
.....		Silty Lean CLAY (CL): light brown to brown, dry, few fine sand, low plasticity, no odor.			.....
.....		Well graded SAND (SW): light brown, subrounded to rounded sand, few silt, few clay, trace cobbles, no odor.			.....
5		Silty SAND (SM): light brown to orange, well graded sand, few clay nodules, no odor.			5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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WELL NO. SV-13-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY I. Cross	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 3/6/23-3/6/23
(Feet)		GRAVEL PACK SIZES
TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Fat CLAY (CH): Brown, moist, high plasticity, trace roots, no odor, grass lawn surface.		0.0	.....
.....		Lean CLAY (CL): olive brown, moist, trace fine sand, trace sub-angular gravel to 23 mm, medium plasticity, no odor.			.....
.....		Fat CLAY (CH): Brown, moist, high plasticity, trace roots, no odor.		0.0	.....
.....		Lean CLAY (CL): brown, moist, medium plasticity, no odor.			0.0
5					5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-13-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY I. Cross	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN: TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 3/6/23-3/6/23
(Feet)		GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS	
.....		Fat CLAY (CH): Brown, moist, high plasticity, trace roots, no odor, grass lawn surface.		0.0	.....
.....		Lean CLAY (CL): olive brown, moist, trace fine sand, trace sub-angular gravel to 23 mm, medium plasticity, no odor.		0.0	.....
.....		Fat CLAY (CH): Brown, moist, high plasticity, trace roots, no odor.			
.....		Lean CLAY (CL): brown, moist, medium plasticity, no odor.			0.0
5					5	

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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WELL NO. SV-14-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 3/7/23-3/7/23
(Feet)		GRAVEL PACK SIZES
TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Silty CLAY (CL): dark brown, few fine to medium sand, little silt, few sand, low plasticity, trace roots, no odor			.....
.....		Lean CLAY with Sand (CL): brown, little well graded sand, few silt, low plasticity, no odor			.....
.....				
5					5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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WELL NO. SV-14-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 3/7/23-3/7/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5		Lean CLAY (CL): dark brown, few fine sand, few silt, low plasticity, trace roots, no odor			

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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WELL NO. SV-15-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY J. Allen	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/21/23-2/21/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Top Soil: dark brown, moist, low plasticity.			.....
.....		Lean CLAY (CL): brown, moist, 70% lean clay, 20% silt, 10% sand, medium plasticity, no odor.		0.0	.....
.....				
.....				
5				0.0	5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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WELL NO. SV-15-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY J. Allen	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/21/23-2/21/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Top Soil: dark brown, moist, low plasticity.			.....
.....		Lean CLAY (CL): brown, moist, 70% lean clay, 20% silt, 10% sand, medium plasticity, no odor.		0.0	.....
.....				
.....				
5				0.0	5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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WELL NO. SV-16-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY J. Allen	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN: TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/21/23-2/21/23
(Feet)		GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5		Fill soil. SILT (ML): light brown, dry, silt with sand, few clay, non-plastic, no odor.			

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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WELL NO. SV-16-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY J. Allen	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN: TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/21/23-2/21/23
(Feet)		GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5		Sandy SILT (ML): brown, moist, 40% silt, 30% clay, 30% sand, low plasticity, no odor.			

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-17-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN: TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 4/3/23-4/3/23
(Feet)	GRAVEL PACK SIZES	

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Lean CLAY (CL): dark brown, moist, trace fine to medium sand, low plasticity, no odor.			.....
.....		CLAY (CL): brown to dark brown, dry, few silt, trace fine sand, no odor.			.....
.....		Silty Lean CLAY (CL): brown, dry, trace fine sand, low plasticity.			.....
5		Well graded SAND (SW): light brown, few silt, subrounded sand.			5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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WELL NO. SV-17-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace	LOCATION City Terrace	
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /	GEOGRAPHIC AREA	
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 4/3/23-4/3/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Lean CLAY (CL): dark brown, dry, trace roots, trace silt, low plasticity, no odor.			.....
.....		Lean CLAY (CL): dark brown, dry, few silt, few fine sand, dry, no odor.			.....
.....		Silty Lean CLAY (CL): brown, dry, few fine sand, low plasticity, no odor.		
<u>5</u>					

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-18-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY J. Allen	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/21/23-2/21/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Top soil, brown, moist, low plasticity.		0.0	.....
.....		Clayey SILT (ML): moist, 60% silt, 30% clay, 10% sand, medium plasticity, no odors, some roots.			.....
5					5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-18-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY J. Allen	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/21/23-2/21/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Top soil, brown, moist, low plasticity.		0.0	.....
.....		Clayey SILT (ML): moist, 60% silt, 30% clay, 10% sand, medium plasticity, no odors, some roots.		0.0	.....
5					5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-19-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/22/23-2/22/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Lean CLAY (CL): dark brown, few silt, medium plasticity trace roots, no odor.		0.0	.....
.....		Lean CLAY (CL): light brown, low plasticity, little silt, no odor.			.....
.....				
.....				
.....				
5				0.0	5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-19-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/22/23-2/22/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5		Lean CLAY (CL): dark brown, few silt, few sand, medium plasticity, no odor.		0.0	

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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WELL NO. SV-20-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY J. Allen	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN: TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/20/23-2/20/23
(Feet)		GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5		Lean CLAY (CL): brown, moist, 70% lean clay, 20% silt, 10% sand, medium plasticity, no odor.			

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-20-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY J. Allen	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/22/23-2/22/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5		<p>Silty Fat CLAY (CH): brown, moist, 80% lean clay, 20% silt, medium to high plasticity plasticity, no odor.</p> <p>Sandy Lean CLAY (CL): light brown, moist, 50% clay, 50% sand, low plasticity, no odor.</p>			

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-21-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/28/23-2/28/23
(Feet)		GRAVEL PACK SIZES
TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Lean CLAY (CL): dark brown, moist, low plasticity, no odor		0.0	.....
.....		SILT with CLAY (ML): light brown, low plasticity, no odor.			.....
.....		Lean CLAY (CL): dark brown, moist, few silt, few medium sand, low plasticity, no odor		0.0	.....
5		#3 Sand		0.0	5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-21-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/28/23-2/28/23
(Feet)		GRAVEL PACK SIZES
TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Planter fill material: brown, silt, little clay (discrete pockets), some roots, no odor.		0.0	.....
.....		Lean CLAY (CL): dark brown, few silt, low plasticity, no odor.			.....
.....		Fat CLAY (CH): dark brown, high plasticity, no odor.			.....
5					5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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WELL NO. SV-22-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY A. Perdikis	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/21/23-2/21/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5		Lean CLAY (CL): dark brown, moist, low plasticity, no odor.			

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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WELL NO. SV-22-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY A. Perdikis	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/22/23-2/22/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5		Lean CLAY (CL): dark brown, moist, low plasticity, no odor.		0.0	

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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WELL NO. SV-23-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY A. Perdikis	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 3/6/23-3/6/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Lean CLAY (CL): dark brown, medium plasticity, no odor.		0.0	.....
.....		Lean CLAY (CL): yellowish brown, medium plasticity, no odor.			.....
5					5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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WELL NO. SV-23-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace	LOCATION City Terrace	
APPROVED BY	LOGGED BY A. Perdikis	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /	GEOGRAPHIC AREA	
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 3/6/23-3/6/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Lean CLAY (CL): dark brown, medium plasticity, no odor.		0.0	.....
5		Lean CLAY (CL): yellowish brown, medium plasticity, no odor.			5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-24-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 3/1/23-3/1/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS	
.....		Lean Silty CLAY (CL): brown, moist, few fine sand, low plasticity, little roots, no odor.		0.0	.....
.....		Clayey SILT (ML): light brown, moist, few fine to medium sand, low plasticity, no odor.		0.0	.....
.....		SILT (ML): light brown, few fine to medium sand, low plasticity, no odor.			
5		#3 Sand 1.5-inch PE Probe				5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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WELL NO. SV-24-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 3/1/23-3/1/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Lean Silty CLAY (CL): dark brown, moist, low plasticity, little roots, no odor.		0.0	.....
.....		Lean Silty CLAY (CL): brown, moist, few fine sand, low plasticity, little roots, no odor.		0.0	.....
.....		SILT (ML): light brown, few fine sand, low plasticity, no odor.		0.0	.....
5		#3 Sand 1.5-inch PE Probe			0.0

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-25-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY J. Allen	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN: TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/21/23-2/21/23
(Feet)		GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Top soil and mulch.			.....
.....		Sandy SILT (ML): light yellowish brown, moist, 40% sand, 40% silt, 20% clay, low plasticity, no odor.			.....
.....				
.....				
.....				
5					5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-25-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY J. Allen	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN: TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/21/23-2/21/23
(Feet)		GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Sandy top soil.		0.0	.....
.....		Sandy Lean CLAY (CL): brown, moist, 60% clay, 20% sand, 10% silt, medium plasticity, no odor.			.....
.....		Sandy SILT (ML): light yellowish brown, moist, 40% sand, 40% silt, 20% clay, low plasticity, no odor.		0.0	.....
5					5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-26-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY J. Allen	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/20/23-2/20/23
(Feet)		GRAVEL PACK SIZES
TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Planter soil with mulch, moist, loose.			.....
.....				
.....				
.....				
5		Fat CLAY (CH): brown, moist, high plasticity, 80% clay, 10% silt, 10% sand, no odor.			5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-26-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY J. Allen	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/20/23-2/20/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5		Fat CLAY (CH): brown, moist, high plasticity, 80% clay, 20% silt, no odor. Sandy Lean CLAY (CL): light brown, moist, low plasticity, 60% clay, 40% sand, no odor.			

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-28-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 3/8/23-3/8/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Lean CLAY (CL): dark brown, low to medium plasticity, no odor.			.....
.....		Silty Lean CLAY (CL): light brown, few fine to medium sand, low plasticity, no odor.			.....
5					5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-28-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 3/8/23-3/8/23
(Feet)		GRAVEL PACK SIZES
TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5		Lean CLAY (CL): dark brown, low plasticity, no odor.			

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-29-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace	LOCATION City Terrace	
APPROVED BY	LOGGED BY J. Allen	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /	GEOGRAPHIC AREA	
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/21/23-2/21/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5		SILT with Sand (ML): light brown, moist, 50% silt, 25% clay, 25% sand, low plasticity, no odor.		0.0	
				0.0	

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-29-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY J. Allen	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN: TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/21/23-2/21/23
(Feet)	GRAVEL PACK SIZES	

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Top soil, dark brown, moist.		0.0	.....
.....		Lean CLAY (CL): brown, moist, 80% clay, 20% silt, medium plasticity, no odor.			.....
.....		SILT with Sand (ML): brown, moist, 50% silt, 25% clay, 25% sand, low plasticity, no odor.			.....
.....				0.0	.....
5					5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-33-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/28/23-2/28/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		SILT (ML): dark grayish brown, moist, little roots, low plasticity, few roots, no odor.			
.....		Lean CLAY (CL): dark grayish brown, trace fine sand, medium plasticity, trace roots, no odor.		0.0	
.....				0.0	
.....		Clayey SILT (ML): light yellowish brown, moist, little fine sand, medium plasticity, no odor.			
5		SILT (ML): no odor.		0.0	5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-33-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/28/23-2/28/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Lean CLAY (CL): dark olive gray, moist, little fine to medium sand, low plasticity, few roots, no odor.		0.0	.....
.....		Lean CLAY (CL): light olive brown, trace reddish mottling, low plasticity, few roots, no odor.			.....
.....		Lean CLAY (CL): dark olive brown, moist, little fine sand, medium plasticity, no odor.		0.0	.....
.....		Lean CLAY (CL): pale olive, moist, low to medium plasticity, no odor.			.....
5				0.0	5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-34-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 3/8/23-3/8/23
(Feet)		GRAVEL PACK SIZES
TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Lean CLAY (CL): dark brown, dry, few silt, low to medium plasticity, no odor.			.....
.....		Silty Lean CLAY (CL): light brown, low plasticity, no odor.			.....
5					5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



ROUX ASSOCIATES, INC.
*Environmental Consulting
 & Management*

5150 E. Pacific Coast Highway, Suite 450
 Long Beach, California 90804
 Telephone: (310) 879 - 4900

BORING LOG

WELL NO. SV-34-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN: TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 3/8/23-3/8/23
(Feet)	GRAVEL PACK SIZES	

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Lean CLAY (CL): brown to dark brown, few fine sand, slightly friable after rolling, low plasticity, few roots, no odor.			.....
.....		Silty Lean CLAY (CL): dark brown, few fine sand, low plasticity, no odor.			.....
.....		Clayey SILT (ML): dark brown, few fine sand, low plasticity, no odor.			.....
5					5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-35-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 3/1/23-3/1/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Fill Material: brown, fine to coarse sand, few silt, no odor.			
.....		Silty Lean CLAY (CL): light brown, little silt, low plasticity, little pocket of iron staining, no odor		0.0	
.....		Clayey SILT (ML): light brown, low plasticity, no odor.		0.0	
.....		SILT (ML): light brown, low plasticity, trace clay, few fine sand, no odor.		0.0	
5					5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-35-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN: TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 3/1/23-3/1/23
(Feet)		GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Silty Lean CLAY (CL): dark brown, moist, little silt, few well graded sand, low plasticity, no odor			.....
.....		concrete aggregate debris, light gray			.....
.....		Silty Lean CLAY (CL): dark brown mottled with light brown pockets, little silt, low plasticity, no odor			.....
.....		Silty Lean CLAY (CL): dark brown, little silt, low to medium plasticity, no odor			.....
.....		Fat CLAY (CH): dark brown, low plasticity, trace clay, no odor.			.....
5		Lean CLAY with Sand (CL): light brown, 25 % fine to coarse , low plasticity, no odor			5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-36-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN: TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/28/23-2/28/23
(Feet)	GRAVEL PACK SIZES	

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS	
.....		Lean CLAY (CL): dark brown, few silt, medium plasticity, no odor		0.0	.....
.....		Lean CLAY (CL): brown, moist, little silt, low plasticity, no odor		0.0	.....
.....		Silty Lean CLAY (CL): light brown, moist, few fine to medium sand, low plasticity, no odor.			
5		SILT (ML): light brown, low plasticity, trace clay, few fine sand, no odor.			0.1	5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-36-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 2/28/23-2/28/23
(Feet)		GRAVEL PACK SIZES
TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Lean CLAY (CL): dark brown, moist, few silt, few sand, medium plasticity, no odor		0.1	.....
.....		Lean CLAY (CL): dark brown, trace silt, medium plasticity, no odor		0.1	.....
5					5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

WELL NO. SV-37-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace		LOCATION City Terrace
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 3/24/23-3/24/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Fat CLAY (CH): dark brown, moist, trace roots, high plasticity, no odor.			.....
.....		Fat CLAY (CH): dark brown, moist, few silt, no odor.			.....
.....					
5					5

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'



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BORING LOG

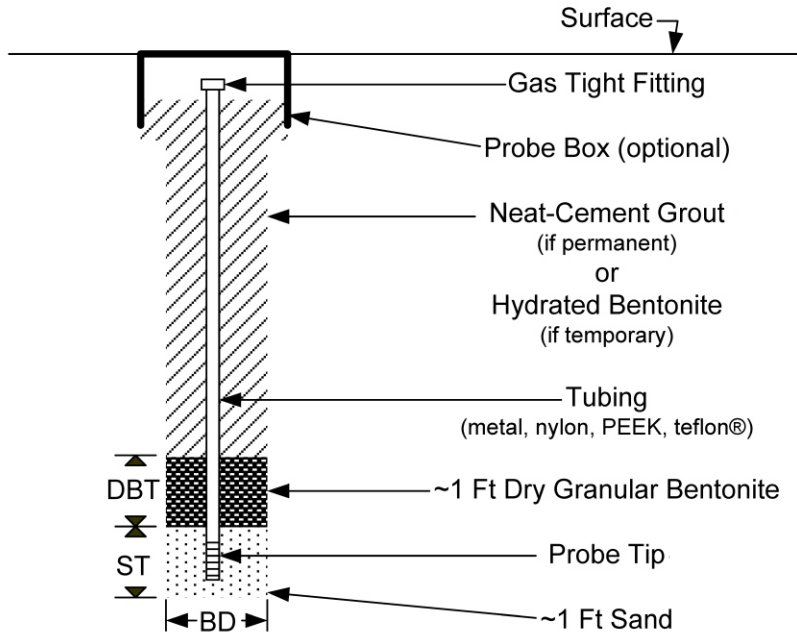
WELL NO. SV-37-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 2855.0004L / City Terrace	LOCATION City Terrace	
APPROVED BY	LOGGED BY T. Clow	Los Angeles, California
DRILLING CONTRACTOR/DRILLER ROUX /	GEOGRAPHIC AREA	
DRILL BIT DIAMETER/TYPE 2.25-in. Auger	BOREHOLE DIAMETER 2.25-in.	DRILLING EQUIPMENT/METHOD Hand Auger / Hand Auger
CASING MAT./DIA. Nylaflo / 1/4"	SCREEN:	SAMPLING METHOD 2.25" Hand Auger
ELEVATION OF: GROUND SURFACE		START-FINISH DATE 3/24/23-3/24/23
(Feet)	TYPE Porous Filter MAT. Polyethelene TOTAL LENGTH 0.1 ft DIA. 1/4" SLOT SIZE 30 Micron	GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5		Fat CLAY (CH): dark brown, moist, medium to high plasticity, no odor. Silty CLAY (CL): brown to dark brown, trace fine sand, low to medium plasticity, no odor.			

NOTES: Terminal depth: 5.5' bgs. Temporary soil vapor probe installed at 5'

Probe Construction Schematic

Typical Single Soil Gas Probe Design



Legend

- BD = borehole diameter (inches)
- DBT = dry bentonite thickness (ft)
- ST = sand pack thickness (ft)
- TL = tubing length (ft)
- PEEK = Polyetheretherketone

Neat-Cement Grout means a mixture in the proportion of 94 pounds of Portland cement and not more than 6 gallons of water. Bentonite up to 5 percent by weight of cement (4.7 pounds of bentonite per 94 pounds of Portland cement) may be used to reduce shrinkage.

Title: SOIL GAS PROBE SCHEMATIC		
CITY TERRACE COMMUNITY MONTEREY PARK, CALIFORNIA 90063		
Prepared for: BEST, BEST, & KRIEGER LLP		
	Compiled by: P.F. Date: 12MAY2023	FIGURE C
Prepared by: T.C.	Scale: AS SHOWN	
Project Mgr.: A.M.	ProjectNo.: 2855.0004L	

Soil Gas and Indoor Air Sampling Report
City Terrace, East Los Angeles, California

APPENDIX D

Analytical Laboratory Reports



Date of Report: 04/03/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304476
Invoice ID: B471455, B471956, B472848

Enclosed are the results of analyses for samples received by the laboratory on 3/4/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001408466

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
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AIR: CHAIN-OF-CUSTODY / Analytical
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

Page: 1 of 1

Section A Required Client Information:
Company: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450
Long Beach, CA 20804
Email To: amcgure@rouxinc.com
Phone: 562-448-9924 Fax:
Requested Due Date(TAT): Standard

Section B Required Project Information:
Report To: April McGuire
Copy To:
Purchase Order No.:
Project Name: City Terrace
Project Number: 2855

Section C Invoice Information:
Attention: Roux Accounts Payable (rouxap@rouxinc.com)
Company Name: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
Pace Quote Reference: 01132481 & 01132533
Pace Project Manager/Sales Rep: Inanna Schulte / Dawn Glisar
Pace Profile #:

Section D Required Client Information:
AIR SAMPLE ID
Sample IDs MUST BE UNIQUE
1A-11-1
1A-11-2
1A-11-1
1A-11-1-D

COLLECTED

DATE	TIME	DATE	TIME
4/1/23	13:51	3-3-23	13:48
	13:50		13:46
	14:26		13:22
	14:30		13:22

RELINQUISHED BY / AFFILIATION

ACCEPTED BY / AFFILIATION

DATE

TIME

DATE

TIME

CHK BY
300
DISTRIBUTION
SUB-OUT

Flow Control Number

Summa Can Number

Center Pressure (Initial Field - psig)

Center Pressure (Final Field - psig)

Flow Control Number

Summa Can Number

Center Pressure (Initial Field - psig)

Center Pressure (Final Field - psig)

Method:

Report Level II, III, IV, Other

Program

Location of Sampling by State CA

Method:

Temp in °C

SAMPLE CONDITIONS

SAMPLER NAME AND SIGNATURE
APRIL MCGUIRE
Signature: April McGuire
DATE SIGNED: 4/1/23

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>	
Submission #: <u>23-04476</u>					
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUNMA</u> Thermometer ID: _____		Date/Time <u>3/4/23</u>	
		Temperature: (A) <u>Room</u> °C / (C) <u>Temp.</u> °C		Analyst Init <u>JCD 1120</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUNMA CANISTER	A	A	A	A						

Comments: _____
 Sample Numbering Completed By: JCD Date/Time: 3/4/23 1245
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2304476-01	COC Number:	---	Receive Date:	03/04/2023 11:20
	Project Number:	---	Sampling Date:	03/03/2023 13:48
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-11-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2304476-02	COC Number:	---	Receive Date:	03/04/2023 11:20
	Project Number:	---	Sampling Date:	03/03/2023 13:46
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-11-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2304476-03	COC Number:	---	Receive Date:	03/04/2023 11:20
	Project Number:	---	Sampling Date:	03/03/2023 13:22
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AA-11-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2304476-04	COC Number:	---	Receive Date:	03/04/2023 11:20
	Project Number:	---	Sampling Date:	03/03/2023 13:22
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AA-11-1-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304476-01		Client Sample Name: IA-11-1, 3/3/2023 1:48:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	72	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	36	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	2.3	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Benzene	2.5	ug/m3	1.0	0.064	EPA-TO-15-SIM	ND	A01	2
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	0.89	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304476-01		Client Sample Name: IA-11-1, 3/3/2023 1:48:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	0.70	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	47	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	14	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	0.87	ug/m3	5.0	0.32	EPA-TO-15	ND	J	1
Ethylbenzene	1.2	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	3.9	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
n-Heptane	0.82	ug/m3	2.0	0.34	EPA-TO-15	ND	J	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	30	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.5	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304476-01		Client Sample Name: IA-11-1, 3/3/2023 1:48:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	0.47	ug/m3	5.0	0.24	EPA-TO-15	ND	J	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	7.0	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	7.1	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.6	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.7	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	11	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	2.8	ug/m3	5.0	0.40	EPA-TO-15	ND	J	1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	3.3	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	4.3	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	1.3	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
o-Xylene	1.6	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	4.5	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	5.9	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	99.0	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	97.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	126	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304476-01		Client Sample Name: IA-11-1, 3/3/2023 1:48:00PM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/17/23 13:12	03/18/23 22:40	BEP	MS-A2	1	B162179	EPA TO-15	
2	EPA-TO-15-SIM	03/07/23 13:07	03/08/23 18:35	BEP	MS-A2	20	B161383	EPA TO-15	
3	EPA-TO-15-SIM	03/07/23 13:07	03/08/23 15:47	BEP	MS-A2	1	B161383	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304476-01	Client Sample Name: IA-11-1, 3/3/2023 1:48:00PM, Client							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	54	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/21/23 08:25	03/21/23 18:03	RMK	GC-A1	1	B162383	No Prep

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304476-02		Client Sample Name: IA-11-2, 3/3/2023 1:46:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	68	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	34	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	2.2	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Benzene	2.3	ug/m3	1.0	0.064	EPA-TO-15-SIM	ND	A01	2
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	V11	1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	0.88	ug/m3	5.0	0.54	EPA-TO-15	ND	J	1
Chloroform	0.97	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	2.5	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.0	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304476-02		Client Sample Name: IA-11-2, 3/3/2023 1:46:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	0.97	ug/m3	5.0	0.26	EPA-TO-15	ND	J	1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	0.70	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	48	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	16	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	0.87	ug/m3	5.0	0.32	EPA-TO-15	ND	J	1
Ethylbenzene	1.1	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	4.8	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
n-Heptane	0.86	ug/m3	2.0	0.34	EPA-TO-15	ND	J	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	29	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.5	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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BCL Sample ID: 2304476-02		Client Sample Name: IA-11-2, 3/3/2023 1:46:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	6.9	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	6.9	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.4	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	13	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	3.5	ug/m3	5.0	0.40	EPA-TO-15	ND	J	1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	3.3	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	4.1	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	1.3	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
o-Xylene	1.5	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	4.6	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	5.6	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	99.2	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	97.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	119	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:14
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304476-02	Client Sample Name: IA-11-2, 3/3/2023 1:46:00PM, Client								
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/20/23 08:01	03/20/23 17:03	BEP	MS-A2	1	B162268	EPA TO-15	
2	EPA-TO-15-SIM	03/07/23 13:07	03/08/23 19:12	BEP	MS-A2	20	B161383	EPA TO-15	
3	EPA-TO-15-SIM	03/07/23 13:07	03/08/23 16:32	BEP	MS-A2	1	B161383	EPA TO-15	

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304476-02	Client Sample Name: IA-11-2, 3/3/2023 1:46:00PM, Client
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	5.3	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/21/23 08:25	03/21/23 18:23	RMK	GC-A1	1	B162383	No Prep

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304476-03		Client Sample Name: AA-11-1, 3/3/2023 1:22:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	12	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	5.4	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.86	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.88	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	V11	1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
Chloromethane	1.1	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304476-03		Client Sample Name: AA-11-1, 3/3/2023 1:22:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	0.70	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	7.4	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.44	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	0.56	ug/m3	5.0	0.20	EPA-TO-15	ND	J	1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	3.0	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Methyl ethyl ketone	0.77	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304476-03		Client Sample Name: AA-11-1, 3/3/2023 1:22:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	1.8	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.8	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.2	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	1.2	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.4	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.51	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	1.2	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	2.0	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	98.3	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	106	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2

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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304476-03	Client Sample Name: AA-11-1, 3/3/2023 1:22:00PM, Client								
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/20/23 08:01	03/20/23 17:49	BEP	MS-A2	1	B162268	EPA TO-15	
2	EPA-TO-15-SIM	03/07/23 13:07	03/08/23 17:15	BEP	MS-A2	1	B161383	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304476-03	Client Sample Name: AA-11-1, 3/3/2023 1:22:00PM, Client
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	5.9	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/21/23 08:25	03/21/23 18:44	RMK	GC-A1	1	B162383	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304476-04		Client Sample Name: AA-11-1-D, 3/3/2023 1:22:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	10	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	4.6	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.86	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.86	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	V11	1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
Chloromethane	1.2	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.2	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2

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Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304476-04		Client Sample Name: AA-11-1-D, 3/3/2023 1:22:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	0.68	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	7.6	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.40	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	0.56	ug/m3	5.0	0.20	EPA-TO-15	ND	J	1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	3.7	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Methyl ethyl ketone	0.74	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304476-04		Client Sample Name: AA-11-1-D, 3/3/2023 1:22:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	1.8	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.8	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	1.0	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.4	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.48	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	1.0	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	1.9	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	97.2	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	102	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2

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Roux Associates, Inc -Long Beach
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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304476-04	Client Sample Name: AA-11-1-D, 3/3/2023 1:22:00PM, Client								
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/20/23 08:01	03/20/23 18:32	BEP	MS-A2	1	B162268	EPA TO-15	
2	EPA-TO-15-SIM	03/07/23 13:07	03/08/23 17:58	BEP	MS-A2	1	B161383	EPA TO-15	

DCN = Data Continuation Number

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Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304476-04	Client Sample Name: AA-11-1-D, 3/3/2023 1:22:00PM, Client
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.3	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/21/23 08:25	03/21/23 19:04	RMK	GC-A1	1	B162383	No Prep

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161383							
Acetone	B161383-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B161383-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B161383-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B161383-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B161383-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B161383-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B161383-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B161383-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B161383-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B161383-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B161383-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B161383-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B161383-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B161383-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B161383-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B161383-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B161383-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B161383-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B161383-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B161383-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B161383-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B161383-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B161383-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B161383-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B161383-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B161383-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161383-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B161383-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B161383-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B161383-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B161383-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B161383-BLK1	97.5	%	50 - 150 (LCL - UCL)			1
QC Batch ID: B162179							

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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162179							
Acetone	B162179-BLK1	ND	ug/m3	5.0	0.43		2
Acrylonitrile	B162179-BLK1	ND	ug/m3	2.0	0.27		2
Allyl chloride	B162179-BLK1	ND	ug/m3	2.0	0.28		2
Benzene	B162179-BLK1	ND	ug/m3	2.0	0.21		2
Benzyl chloride	B162179-BLK1	ND	ug/m3	10	0.26		2
Bromodichloromethane	B162179-BLK1	ND	ug/m3	5.0	0.45		2
Bromoform	B162179-BLK1	ND	ug/m3	10	0.86		2
Bromomethane	B162179-BLK1	ND	ug/m3	2.0	0.47		2
1,3-Butadiene	B162179-BLK1	ND	ug/m3	2.0	0.22		2
Carbon disulfide	B162179-BLK1	ND	ug/m3	2.0	0.19		2
Carbon tetrachloride	B162179-BLK1	ND	ug/m3	5.0	0.45		2
Chlorobenzene	B162179-BLK1	ND	ug/m3	5.0	0.40		2
Chloroethane	B162179-BLK1	ND	ug/m3	2.0	0.53		2
Chloroform	B162179-BLK1	ND	ug/m3	5.0	0.54		2
Chloromethane	B162179-BLK1	ND	ug/m3	2.0	0.21		2
Cyclohexane	B162179-BLK1	ND	ug/m3	2.0	0.38		2
Dibromochloromethane	B162179-BLK1	ND	ug/m3	5.0	0.43		2
1,2-Dibromoethane	B162179-BLK1	ND	ug/m3	5.0	0.58		2
1,2-Dichlorobenzene	B162179-BLK1	ND	ug/m3	5.0	0.50		2
1,3-Dichlorobenzene	B162179-BLK1	ND	ug/m3	5.0	0.31		2
1,4-Dichlorobenzene	B162179-BLK1	ND	ug/m3	5.0	0.50		2
Dichlorodifluoromethane	B162179-BLK1	ND	ug/m3	5.0	0.45		2
1,1-Dichloroethane	B162179-BLK1	ND	ug/m3	5.0	0.23		2
1,2-Dichloroethane	B162179-BLK1	ND	ug/m3	5.0	0.26		2
1,1-Dichloroethene	B162179-BLK1	ND	ug/m3	5.0	0.31		2
cis-1,2-Dichloroethene	B162179-BLK1	ND	ug/m3	2.0	0.32		2
trans-1,2-Dichloroethene	B162179-BLK1	ND	ug/m3	2.0	0.27		2
1,2-Dichloropropane	B162179-BLK1	ND	ug/m3	5.0	0.32		2
cis-1,3-Dichloropropene	B162179-BLK1	ND	ug/m3	5.0	0.30		2
trans-1,3-Dichloropropene	B162179-BLK1	ND	ug/m3	5.0	0.40		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162179-BLK1	ND	ug/m3	5.0	0.91		2
1,1-Difluoroethane	B162179-BLK1	ND	ug/m3	5.0	2.0		2
1,4-Dioxane	B162179-BLK1	ND	ug/m3	2.0	0.33		2
Ethanol	B162179-BLK1	ND	ug/m3	2.0	0.42		2

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Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162179							
Ethyl acetate	B162179-BLK1	ND	ug/m3	2.0	0.33		2
Ethylbenzene	B162179-BLK1	ND	ug/m3	5.0	0.32		2
1-Ethyl-4-methylbenzene	B162179-BLK1	ND	ug/m3	5.0	0.30		2
n-Heptane	B162179-BLK1	ND	ug/m3	2.0	0.34		2
Hexachlorobutadiene	B162179-BLK1	ND	ug/m3	10	1.5		2
Hexane	B162179-BLK1	ND	ug/m3	5.0	0.20		2
2-Hexanone	B162179-BLK1	ND	ug/m3	5.0	0.29		2
Isopropyl alcohol	B162179-BLK1	ND	ug/m3	2.0	0.32		2
Methylene chloride	B162179-BLK1	ND	ug/m3	10	0.40		2
Methyl ethyl ketone	B162179-BLK1	ND	ug/m3	2.0	0.19		2
Methyl isobutyl ketone	B162179-BLK1	ND	ug/m3	5.0	0.26		2
Methyl t-butyl ether	B162179-BLK1	ND	ug/m3	2.0	0.28		2
Propylene	B162179-BLK1	ND	ug/m3	2.0	0.25		2
Styrene	B162179-BLK1	ND	ug/m3	5.0	0.24		2
1,1,2,2-Tetrachloroethane	B162179-BLK1	ND	ug/m3	5.0	0.47		2
Tetrachloroethene	B162179-BLK1	ND	ug/m3	2.0	0.50		2
Tetrahydrofuran	B162179-BLK1	ND	ug/m3	2.0	0.27		2
Toluene	B162179-BLK1	ND	ug/m3	2.0	0.27		2
1,2,4-Trichlorobenzene	B162179-BLK1	ND	ug/m3	10	0.82		2
1,1,1-Trichloroethane	B162179-BLK1	ND	ug/m3	5.0	0.39		2
1,1,2-Trichloroethane	B162179-BLK1	ND	ug/m3	5.0	0.61		2
Trichloroethene	B162179-BLK1	ND	ug/m3	2.0	0.54		2
Trichlorofluoromethane	B162179-BLK1	ND	ug/m3	5.0	0.47		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B162179-BLK1	ND	ug/m3	5.0	0.55		2
1,2,4-Trimethylbenzene	B162179-BLK1	ND	ug/m3	5.0	0.40		2
1,3,5-Trimethylbenzene	B162179-BLK1	ND	ug/m3	5.0	0.40		2
Vinyl acetate	B162179-BLK1	ND	ug/m3	2.0	0.33		2
Vinyl chloride	B162179-BLK1	ND	ug/m3	2.0	0.39		2
p- & m-Xylenes	B162179-BLK1	ND	ug/m3	5.0	0.61		2
o-Xylene	B162179-BLK1	ND	ug/m3	5.0	0.30		2
Total Xylenes	B162179-BLK1	ND	ug/m3	10	0.91		2
4-Bromofluorobenzene (Surrogate)	B162179-BLK1	0	%	70 - 130 (LCL - UCL)	S09		2
QC Batch ID: B162268							

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 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162268							
Acetone	B162268-BLK1	ND	ug/m3	5.0	0.43		3
Acrylonitrile	B162268-BLK1	ND	ug/m3	2.0	0.27		3
Allyl chloride	B162268-BLK1	ND	ug/m3	2.0	0.28		3
Benzene	B162268-BLK1	ND	ug/m3	2.0	0.21		3
Benzyl chloride	B162268-BLK1	ND	ug/m3	10	0.26		3
Bromodichloromethane	B162268-BLK1	ND	ug/m3	5.0	0.45		3
Bromoform	B162268-BLK1	ND	ug/m3	10	0.86		3
Bromomethane	B162268-BLK1	ND	ug/m3	2.0	0.47		3
1,3-Butadiene	B162268-BLK1	ND	ug/m3	2.0	0.22		3
Carbon disulfide	B162268-BLK1	ND	ug/m3	2.0	0.19		3
Carbon tetrachloride	B162268-BLK1	ND	ug/m3	5.0	0.45		3
Chlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.40		3
Chloroethane	B162268-BLK1	ND	ug/m3	2.0	0.53		3
Chloroform	B162268-BLK1	ND	ug/m3	5.0	0.54		3
Chloromethane	B162268-BLK1	ND	ug/m3	2.0	0.21		3
Cyclohexane	B162268-BLK1	ND	ug/m3	2.0	0.38		3
Dibromochloromethane	B162268-BLK1	ND	ug/m3	5.0	0.43		3
1,2-Dibromoethane	B162268-BLK1	ND	ug/m3	5.0	0.58		3
1,2-Dichlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.50		3
1,3-Dichlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.31		3
1,4-Dichlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.50		3
Dichlorodifluoromethane	B162268-BLK1	ND	ug/m3	5.0	0.45		3
1,1-Dichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.23		3
1,2-Dichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.26		3
1,1-Dichloroethene	B162268-BLK1	ND	ug/m3	5.0	0.31		3
cis-1,2-Dichloroethene	B162268-BLK1	ND	ug/m3	2.0	0.32		3
trans-1,2-Dichloroethene	B162268-BLK1	ND	ug/m3	2.0	0.27		3
1,2-Dichloropropane	B162268-BLK1	ND	ug/m3	5.0	0.32		3
cis-1,3-Dichloropropene	B162268-BLK1	ND	ug/m3	5.0	0.30		3
trans-1,3-Dichloropropene	B162268-BLK1	ND	ug/m3	5.0	0.40		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162268-BLK1	ND	ug/m3	5.0	0.91		3
1,1-Difluoroethane	B162268-BLK1	ND	ug/m3	5.0	2.0		3
1,4-Dioxane	B162268-BLK1	ND	ug/m3	2.0	0.33		3
Ethanol	B162268-BLK1	ND	ug/m3	2.0	0.42		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162268							
Ethyl acetate	B162268-BLK1	ND	ug/m3	2.0	0.33		3
Ethylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.32		3
1-Ethyl-4-methylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.30		3
n-Heptane	B162268-BLK1	ND	ug/m3	2.0	0.34		3
Hexachlorobutadiene	B162268-BLK1	ND	ug/m3	10	1.5		3
Hexane	B162268-BLK1	ND	ug/m3	5.0	0.20		3
2-Hexanone	B162268-BLK1	ND	ug/m3	5.0	0.29		3
Isopropyl alcohol	B162268-BLK1	ND	ug/m3	2.0	0.32		3
Methylene chloride	B162268-BLK1	ND	ug/m3	10	0.40		3
Methyl ethyl ketone	B162268-BLK1	ND	ug/m3	2.0	0.19		3
Methyl isobutyl ketone	B162268-BLK1	ND	ug/m3	5.0	0.26		3
Methyl t-butyl ether	B162268-BLK1	ND	ug/m3	2.0	0.28		3
Propylene	B162268-BLK1	ND	ug/m3	2.0	0.25	C01	3
Styrene	B162268-BLK1	ND	ug/m3	5.0	0.24		3
1,1,2,2-Tetrachloroethane	B162268-BLK1	ND	ug/m3	5.0	0.47		3
Tetrachloroethene	B162268-BLK1	ND	ug/m3	2.0	0.50		3
Tetrahydrofuran	B162268-BLK1	ND	ug/m3	2.0	0.27		3
Toluene	B162268-BLK1	ND	ug/m3	2.0	0.27		3
1,2,4-Trichlorobenzene	B162268-BLK1	ND	ug/m3	10	0.82		3
1,1,1-Trichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.39		3
1,1,2-Trichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.61		3
Trichloroethene	B162268-BLK1	ND	ug/m3	2.0	0.54		3
Trichlorofluoromethane	B162268-BLK1	ND	ug/m3	5.0	0.47		3
1,1,2-Trichloro-1,2,2-trifluoroethane	B162268-BLK1	ND	ug/m3	5.0	0.55		3
1,2,4-Trimethylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.40		3
1,3,5-Trimethylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.40		3
Vinyl acetate	B162268-BLK1	ND	ug/m3	2.0	0.33		3
Vinyl chloride	B162268-BLK1	ND	ug/m3	2.0	0.39		3
p- & m-Xylenes	B162268-BLK1	ND	ug/m3	5.0	0.61		3
o-Xylene	B162268-BLK1	ND	ug/m3	5.0	0.30		3
Total Xylenes	B162268-BLK1	ND	ug/m3	10	0.91		3
4-Bromofluorobenzene (Surrogate)	B162268-BLK1	97.1	%	70 - 130 (LCL - UCL)			3

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:14
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161383-BLK1	PB	EPA-TO-15-SIM	03/07/23	03/08/23 02:15	BEP	MS-A2	1
2	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23 06:11	BEP	MS-A2	1
3	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1

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Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161383											
Benzene	B161383-BS1	LCS	0.29682	0.31948	ug/m3	92.9		70 - 130			1
	B161383-BSD1	LCSD	0.29411	0.31948	ug/m3	92.1	0.9	70 - 130	30		2
Benzyl chloride	B161383-BS1	LCS	0.53191	0.51772	ug/m3	103		70 - 130			1
	B161383-BSD1	LCSD	0.52673	0.51772	ug/m3	102	1.0	70 - 130	30		2
Carbon tetrachloride	B161383-BS1	LCS	0.61246	0.62913	ug/m3	97.4		70 - 130			1
	B161383-BSD1	LCSD	0.60831	0.62913	ug/m3	96.7	0.7	70 - 130	30		2
Chlorobenzene	B161383-BS1	LCS	0.44954	0.46036	ug/m3	97.6		70 - 130			1
	B161383-BSD1	LCSD	0.44512	0.46036	ug/m3	96.7	1.0	70 - 130	30		2
Chloroform	B161383-BS1	LCS	0.46941	0.48825	ug/m3	96.1		70 - 130			1
	B161383-BSD1	LCSD	0.46589	0.48825	ug/m3	95.4	0.8	70 - 130	30		2
1,2-Dibromoethane	B161383-BS1	LCS	0.74722	0.76835	ug/m3	97.2		70 - 130			1
	B161383-BSD1	LCSD	0.74315	0.76835	ug/m3	96.7	0.5	70 - 130	30		2
1,2-Dichlorobenzene	B161383-BS1	LCS	0.63683	0.60124	ug/m3	106		70 - 130			1
	B161383-BSD1	LCSD	0.61176	0.60124	ug/m3	102	4.0	70 - 130	30		2
1,3-Dichlorobenzene	B161383-BS1	LCS	0.64416	0.60124	ug/m3	107		70 - 130			1
	B161383-BSD1	LCSD	0.62769	0.60124	ug/m3	104	2.6	70 - 130	30		2
1,4-Dichlorobenzene	B161383-BS1	LCS	0.65108	0.60124	ug/m3	108		70 - 130			1
	B161383-BSD1	LCSD	0.62769	0.60124	ug/m3	104	3.7	70 - 130	30		2
1,1-Dichloroethane	B161383-BS1	LCS	0.38616	0.40474	ug/m3	95.4		70 - 130			1
	B161383-BSD1	LCSD	0.38341	0.40474	ug/m3	94.7	0.7	70 - 130	30		2
1,2-Dichloroethane	B161383-BS1	LCS	0.39183	0.40474	ug/m3	96.8		70 - 130			1
	B161383-BSD1	LCSD	0.38458	0.40474	ug/m3	95.0	1.9	70 - 130	30		2
1,1-Dichloroethene	B161383-BS1	LCS	0.37298	0.39649	ug/m3	94.1		70 - 130			1
	B161383-BSD1	LCSD	0.36997	0.39649	ug/m3	93.3	0.8	70 - 130	30		2
cis-1,2-Dichloroethene	B161383-BS1	LCS	0.37497	0.39649	ug/m3	94.6		70 - 130			1
	B161383-BSD1	LCSD	0.36949	0.39649	ug/m3	93.2	1.5	70 - 130	30		2
Methylene chloride	B161383-BS1	LCS	0.34783	0.34737	ug/m3	100		70 - 130			1
	B161383-BSD1	LCSD	0.34418	0.34737	ug/m3	99.1	1.1	70 - 130	30		2
Tetrachloroethene	B161383-BS1	LCS	0.65458	0.67825	ug/m3	96.5		70 - 130			1
	B161383-BSD1	LCSD	0.64285	0.67825	ug/m3	94.8	1.8	70 - 130	30		2
Toluene	B161383-BS1	LCS	0.35698	0.37684	ug/m3	94.7		70 - 130			1
	B161383-BSD1	LCSD	0.35333	0.37684	ug/m3	93.8	1.0	70 - 130	30		2
1,1,1-Trichloroethane	B161383-BS1	LCS	0.52363	0.54562	ug/m3	96.0		70 - 130			1
	B161383-BSD1	LCSD	0.52019	0.54562	ug/m3	95.3	0.7	70 - 130	30		2
1,1,2-Trichloroethane	B161383-BS1	LCS	0.52450	0.54562	ug/m3	96.1		70 - 130			1
	B161383-BSD1	LCSD	0.52587	0.54562	ug/m3	96.4	0.3	70 - 130	30		2

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Roux Associates, Inc -Long Beach
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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161383											
Trichloroethene	B161383-BS1	LCS	0.51287	0.53737	ug/m3	95.4		70 - 130			1
	B161383-BSD1	LCSD	0.50626	0.53737	ug/m3	94.2	1.3	70 - 130	30		2
Vinyl chloride	B161383-BS1	LCS	0.26078	0.25562	ug/m3	102		70 - 130			1
	B161383-BSD1	LCSD	0.25027	0.25562	ug/m3	97.9	4.1	70 - 130	30		2
p- & m-Xylenes	B161383-BS1	LCS	0.89166	0.86843	ug/m3	103		70 - 130			1
	B161383-BSD1	LCSD	0.87277	0.86843	ug/m3	100	2.1	70 - 130	30		2
o-Xylene	B161383-BS1	LCS	0.43174	0.43421	ug/m3	99.4		70 - 130			1
	B161383-BSD1	LCSD	0.42427	0.43421	ug/m3	97.7	1.7	70 - 130	30		2
Total Xylenes	B161383-BS1	LCS	1.3234	1.3026	ug/m3	102		70 - 130			1
	B161383-BSD1	LCSD	1.2970	1.3026	ug/m3	99.6	2.0	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161383-BS1	LCS	3.81	3.58	ug/m3	106		50 - 150			1
	B161383-BSD1	LCSD	3.75	3.58	ug/m3	105	1.7	50 - 150			2
QC Batch ID: B162179											
Benzene	B162179-BS1	LCS	15.175	15.974	ug/m3	95.0		70 - 130			3
	B162179-BSD1	LCSD	15.239	15.974	ug/m3	95.4	0.4	70 - 130	30		4
Chloroform	B162179-BS1	LCS	22.899	24.413	ug/m3	93.8		70 - 130			3
	B162179-BSD1	LCSD	22.948	24.413	ug/m3	94.0	0.2	70 - 130	30		4
Ethylbenzene	B162179-BS1	LCS	20.451	21.711	ug/m3	94.2		70 - 130			3
	B162179-BSD1	LCSD	20.321	21.711	ug/m3	93.6	0.6	70 - 130	30		4
Tetrachloroethene	B162179-BS1	LCS	34.184	33.913	ug/m3	101		70 - 130			3
	B162179-BSD1	LCSD	33.302	33.913	ug/m3	98.2	2.6	70 - 130	30		4
Toluene	B162179-BS1	LCS	18.805	18.842	ug/m3	99.8		70 - 130			3
	B162179-BSD1	LCSD	18.578	18.842	ug/m3	98.6	1.2	70 - 130	30		4
Trichloroethene	B162179-BS1	LCS	26.385	26.869	ug/m3	98.2		70 - 130			3
	B162179-BSD1	LCSD	26.331	26.869	ug/m3	98.0	0.2	70 - 130	30		4
Trichlorofluoromethane	B162179-BS1	LCS	26.631	28.092	ug/m3	94.8		70 - 130			3
	B162179-BSD1	LCSD	26.575	28.092	ug/m3	94.6	0.2	70 - 130	30		4
1,1,2-Trichloro-1,2,2-trifluoroethane	B162179-BS1	LCS	36.096	38.318	ug/m3	94.2		70 - 130			3
	B162179-BSD1	LCSD	36.249	38.318	ug/m3	94.6	0.4	70 - 130	30		4
p- & m-Xylenes	B162179-BS1	LCS	43.030	43.421	ug/m3	99.1		70 - 130			3
	B162179-BSD1	LCSD	42.509	43.421	ug/m3	97.9	1.2	70 - 130	30		4
o-Xylene	B162179-BS1	LCS	21.276	21.711	ug/m3	98.0		70 - 130			3
	B162179-BSD1	LCSD	20.972	21.711	ug/m3	96.6	1.4	70 - 130	30		4
Total Xylenes	B162179-BS1	LCS	64.307	65.132	ug/m3	98.7		70 - 130			3
	B162179-BSD1	LCSD	63.482	65.132	ug/m3	97.5	1.3	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B162179-BS1	LCS	73.5	71.6	ug/m3	103		70 - 130			3
	B162179-BSD1	LCSD	73.4	71.6	ug/m3	102	0.2	70 - 130			4

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B162268											
Benzene	B162268-BS1	LCS	15.590	15.974	ug/m3	97.6		70 - 130			5
	B162268-BSD1	LCSD	15.718	15.974	ug/m3	98.4	0.8	70 - 130	30		6
Chloroform	B162268-BS1	LCS	23.436	24.413	ug/m3	96.0		70 - 130			5
	B162268-BSD1	LCSD	23.631	24.413	ug/m3	96.8	0.8	70 - 130	30		6
Ethylbenzene	B162268-BS1	LCS	20.712	21.711	ug/m3	95.4		70 - 130			5
	B162268-BSD1	LCSD	21.146	21.711	ug/m3	97.4	2.1	70 - 130	30		6
Tetrachloroethene	B162268-BS1	LCS	33.641	33.913	ug/m3	99.2		70 - 130			5
	B162268-BSD1	LCSD	34.184	33.913	ug/m3	101	1.6	70 - 130	30		6
Toluene	B162268-BS1	LCS	18.805	18.842	ug/m3	99.8		70 - 130			5
	B162268-BSD1	LCSD	19.219	18.842	ug/m3	102	2.2	70 - 130	30		6
Trichloroethene	B162268-BS1	LCS	26.815	26.869	ug/m3	99.8		70 - 130			5
	B162268-BSD1	LCSD	27.406	26.869	ug/m3	102	2.2	70 - 130	30		6
Trichlorofluoromethane	B162268-BS1	LCS	27.137	28.092	ug/m3	96.6		70 - 130			5
	B162268-BSD1	LCSD	27.249	28.092	ug/m3	97.0	0.4	70 - 130	30		6
1,1,2-Trichloro-1,2,2-trifluoroethane	B162268-BS1	LCS	37.015	38.318	ug/m3	96.6		70 - 130			5
	B162268-BSD1	LCSD	37.322	38.318	ug/m3	97.4	0.8	70 - 130	30		6
p- & m-Xylenes	B162268-BS1	LCS	43.378	43.421	ug/m3	99.9		70 - 130			5
	B162268-BSD1	LCSD	44.680	43.421	ug/m3	103	3.0	70 - 130	30		6
o-Xylene	B162268-BS1	LCS	21.190	21.711	ug/m3	97.6		70 - 130			5
	B162268-BSD1	LCSD	22.058	21.711	ug/m3	102	4.0	70 - 130	30		6
Total Xylenes	B162268-BS1	LCS	64.567	65.132	ug/m3	99.1		70 - 130			5
	B162268-BSD1	LCSD	66.738	65.132	ug/m3	102	3.3	70 - 130	30		6
4-Bromofluorobenzene (Surrogate)	B162268-BS1	LCS	72.7	71.6	ug/m3	102		70 - 130			5
	B162268-BSD1	LCSD	73.9	71.6	ug/m3	103	1.7	70 - 130			6

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date Time				
1	B161383-BS1	LCS	EPA-TO-15-SIM	03/07/23	03/08/23	01:02	BEP	MS-A2	1
2	B161383-BSD1	LCSD	EPA-TO-15-SIM	03/07/23	03/08/23	01:41	BEP	MS-A2	1
3	B162179-BS1	LCS	EPA-TO-15	03/17/23	03/18/23	04:58	BEP	MS-A2	1
4	B162179-BSD1	LCSD	EPA-TO-15	03/17/23	03/18/23	05:37	BEP	MS-A2	1
5	B162268-BS1	LCS	EPA-TO-15	03/20/23	03/20/23	13:31	BEP	MS-A2	1
6	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23	14:14	BEP	MS-A2	1

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Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
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QC Batch ID: B162383

Methane (CH4)	B162383-BLK1	ND	ppmv	2.0	1.8		1
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Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162383-BLK1	PB	ASTM-D1946	03/21/23	03/21/23 17:42	RMK	GC-A1	1

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Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162383											
Methane (CH4)	B162383-BS1	LCS	19846	18000	ppmv	110		70 - 130			1
	B162383-BSD1	LCSD	19848	18000	ppmv	110	0.0	70 - 130	30		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162383-BS1	LCS	ASTM-D1946	03/21/23	03/21/23	17:01	RMK	GC-A1	1
2	B162383-BSD1	LCSD	ASTM-D1946	03/21/23	03/21/23	17:22	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:14
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- C01 The calibration curve did not contain the minimum number of standards.
- S09 The surrogate recovery for this compound was not within the control limits.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.

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Date of Report: 03/16/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304991
Invoice ID: B471503

Enclosed are the results of analyses for samples received by the laboratory on 3/10/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / Analytical Reqt

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed at

2304991

Section A Required Client Information: Company: Roux Address: 5150 E. Pacific Coast Hwy. Ste. 450 Long Beach, CA 90804 Email To: amcguire@rouxinc.com Phone: 562-449-8624 Fax: Requested Due Date(TAT): Standard		Section B Required Project Information: Report To: April McGuire Copy To: Purchase Order No. Project Name: City Terrace Project Number: 2855		Section C Invoice Information: Attention: Roux Accounts Payable (rouxinc.com) Company Name: Roux Address: 5150 E. Pacific Coast Hwy. Ste. 450 Long Beach, CA 90804 PACE Quote Reference: 00132481 & 00132633 PACE Project Manager/Sales Rep: Brianna Schutze / Dawn Gmoir PACE Profile #		Page: 1 of 1 Program <input type="checkbox"/> UST <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other Location of Sampling by State: CA Basis of Method: <input type="checkbox"/> PM10 <input type="checkbox"/> PM2.5 <input type="checkbox"/> PM10/2.5 Report Level: II, III, IV, Other									
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		COLLECTED DATE TIME TIME 3/4/23 1135 3/4/23 1146 3/4/23 1134 3/4/23 1139		MEDA CODE 11C 11C		Method: PM10 3C: Fixed Gas (%) TO-1M (Method) TO-13 (PAM) TO-14 TO-15 TO-15 SMR TO-15 SHOT LIST Pace Lab ID									
ITEM # 1 SV-11-1 2 SV-11-2		MEDA CODE 11C 11C		CANISTER PRESSURE (psi) Initial Final -26 -5 -26 -5		SUMMA CAN NUMBER 2643 1939		FLOW CONTROL NUMBER 1416 1313		RELINQUISHED BY / AFFILIATION Cameron Jones / Roux Jonathan Cameron DATE TIME 3/4/23 1640 3/4/23 1600		ACCEPTED BY / AFFILIATION Jonathan Cameron DATE TIME 3/4/23 1640 3/4/23 1600		SAMPLE CONDITIONS Temp in °C Received on Ice Custody Sealed Cooler Samples In tact	

CHK BY: [Signature] DISTRIBUTION: [] SUB OUT: []

SAMPLER NAME AND SIGNATURE

Signature: [Signature] DATE: 03/04/23

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PACE ANALYTICAL COOLER RECEIPT FORM Page Of

Submission #: 23-04991

SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
---	--	--	---

Refrigerant: Ice Blue Ice None Other Comments: _____

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

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

COC Received YES NO Emissivity: _____ Containers: SUNIMA Thermometer ID: _____ Date/Time 3-10-23
 Temperature: (A) Room °C / (C) Temp °C Analyst Inid SM111043

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
3oz Cr ⁶⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
BIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL-504										
QT EPA 505/505.3/505.1A										
QT EPA 515.1/515.1A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 501501										
QT EPA 5270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUNIMA CANISTER	<u>1.4L</u>	<u>A</u>	<u>A</u>							

Comments: _____
 Sample Numbering Completed By: KD Date/Time: 3-10-23 1520
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304991-01	COC Number:	---	Receive Date:	03/10/2023 10:43
	Project Number:	---	Sampling Date:	03/09/2023 11:46
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-11-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2304991-02	COC Number:	---	Receive Date:	03/10/2023 10:43
	Project Number:	---	Sampling Date:	03/09/2023 11:39
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-11-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304991-01		Client Sample Name: SV-11-1, 3/9/2023 11:46:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	80	ug/m3	8.2	0.71	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.3	0.45	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.3	0.46	EPA-TO-15	ND	A01	1
Benzene	2.0	ug/m3	3.3	0.35	EPA-TO-15	ND	J,A01	1
Benzyl chloride	ND	ug/m3	16	0.43	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.2	0.74	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.3	0.78	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.3	0.36	EPA-TO-15	ND	A01	1
Carbon disulfide	12	ug/m3	3.3	0.31	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.2	0.74	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.2	0.66	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.3	0.87	EPA-TO-15	ND	A01	1
Chloroform	0.89	ug/m3	8.2	0.89	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.3	0.35	EPA-TO-15	ND	A01	1
Cyclohexane	1.5	ug/m3	3.3	0.63	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	8.2	0.71	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.2	0.96	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.2	0.82	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.2	0.51	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.2	0.82	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.9	ug/m3	8.2	0.74	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.2	0.38	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.2	0.43	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.2	0.51	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.3	0.53	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.3	0.45	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.2	0.53	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.2	0.50	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.2	0.66	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.2	1.5	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	58	ug/m3	8.2	3.3	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304991-01		Client Sample Name: SV-11-1, 3/9/2023 11:46:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	31	ug/m3	3.3	0.69	EPA-TO-15	ND	A01	1
Ethyl acetate	3.6	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	1
Ethylbenzene	5.8	ug/m3	8.2	0.53	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	1.4	ug/m3	8.2	0.50	EPA-TO-15	ND	J,A01	1
n-Heptane	1.1	ug/m3	3.3	0.56	EPA-TO-15	ND	J,A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.5	EPA-TO-15	ND	A01	1
Hexane	1.9	ug/m3	8.2	0.33	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	8.2	0.48	EPA-TO-15	ND	A01	1
Isopropyl alcohol	64	ug/m3	3.3	0.53	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.66	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	3.2	ug/m3	3.3	0.31	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	1.4	ug/m3	8.2	0.43	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.3	0.46	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.3	0.41	EPA-TO-15	ND	A01	1
Styrene	0.77	ug/m3	8.2	0.40	EPA-TO-15	ND	J,A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.2	0.78	EPA-TO-15	ND	A01	1
Tetrachloroethene	2.4	ug/m3	3.3	0.82	EPA-TO-15	ND	J,A01	1
Tetrahydrofuran	2.7	ug/m3	3.3	0.45	EPA-TO-15	ND	J,A01	1
Toluene	6.6	ug/m3	3.3	0.45	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.2	0.64	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.2	1.0	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.3	0.89	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.5	ug/m3	8.2	0.78	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.2	0.91	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	2.6	ug/m3	8.2	0.66	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.2	0.66	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.3	0.64	EPA-TO-15	ND	A01	1
p- & m-Xylenes	18	ug/m3	8.2	1.0	EPA-TO-15	ND	A01	1
o-Xylene	5.1	ug/m3	8.2	0.50	EPA-TO-15	ND	J,A01	1
Total Xylenes	23	ug/m3	16	1.5	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	98.7	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304991-01	Client Sample Name: SV-11-1, 3/9/2023 11:46:00AM, Client
----------------------------------	---

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	03/14/23 13:48	03/15/23 00:39	BEP	MS-A1	1.650	B161871 EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304991-02		Client Sample Name: SV-11-2, 3/9/2023 11:39:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	44	ug/m3	8.0	0.69	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Benzene	3.2	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.42	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.2	0.76	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.2	0.35	EPA-TO-15	ND	A01	1
Carbon disulfide	12	ug/m3	3.2	0.31	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.2	0.85	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	8.0	0.87	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	1
Cyclohexane	0.89	ug/m3	3.2	0.61	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	8.0	0.69	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.0	0.93	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.0	0.50	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.5	ug/m3	8.0	0.72	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.0	0.37	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.0	0.42	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.0	0.50	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.0	0.52	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.0	0.48	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.0	1.5	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	25	ug/m3	8.0	3.2	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304991-02		Client Sample Name: SV-11-2, 3/9/2023 11:39:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	16	ug/m3	3.2	0.68	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1
Ethylbenzene	2.6	ug/m3	8.0	0.52	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	8.0	0.48	EPA-TO-15	ND	A01	1
n-Heptane	1.1	ug/m3	3.2	0.55	EPA-TO-15	ND	J,A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	1
Hexane	2.4	ug/m3	8.0	0.32	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	8.0	0.47	EPA-TO-15	ND	A01	1
Isopropyl alcohol	37	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.64	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	2.3	ug/m3	3.2	0.31	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	ND	ug/m3	8.0	0.42	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.2	0.40	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	8.0	0.39	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.0	0.76	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.2	0.80	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Toluene	5.2	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.0	0.63	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.0	0.98	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.2	0.87	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.2	ug/m3	8.0	0.76	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.0	0.89	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.1	ug/m3	8.0	0.64	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.2	0.63	EPA-TO-15	ND	A01	1
p- & m-Xylenes	8.5	ug/m3	8.0	0.98	EPA-TO-15	ND	A01	1
o-Xylene	2.4	ug/m3	8.0	0.48	EPA-TO-15	ND	J,A01	1
Total Xylenes	11	ug/m3	16	1.5	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	97.2	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/16/2023 8:06
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304991-02	Client Sample Name: SV-11-2, 3/9/2023 11:39:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15	03/14/23 13:48	03/15/23 01:15		BEP	MS-A1	1.610	B161871	EPA TO-15

DCN = Data Continuation Number

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Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161871							
Acetone	B161871-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B161871-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B161871-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B161871-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B161871-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B161871-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B161871-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B161871-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B161871-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B161871-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B161871-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B161871-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B161871-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B161871-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B161871-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B161871-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B161871-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B161871-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B161871-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B161871-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B161871-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B161871-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B161871-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B161871-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B161871-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B161871-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B161871-BLK1	ND	ug/m3	2.0	0.42		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161871							
Ethyl acetate	B161871-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B161871-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B161871-BLK1	ND	ug/m3	10	1.5		1
Hexane	B161871-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B161871-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B161871-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B161871-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B161871-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B161871-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B161871-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B161871-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B161871-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B161871-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B161871-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B161871-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B161871-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B161871-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B161871-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B161871-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161871-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B161871-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B161871-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B161871-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B161871-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B161871-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B161871-BLK1	90.5	%	70 - 130 (LCL - UCL)			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run	Analyst	Instrument	Dilution
					Date Time			
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1

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Long Beach, CA 90804

Reported: 03/16/2023 8:06
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161871											
Benzene	B161871-BS1	LCS	14.856	15.974	ug/m3	93.0		70 - 130			1
	B161871-BSD1	LCSD	15.047	15.974	ug/m3	94.2	1.3	70 - 130	30		2
Chloroform	B161871-BS1	LCS	22.899	24.413	ug/m3	93.8		70 - 130			1
	B161871-BSD1	LCSD	22.850	24.413	ug/m3	93.6	0.2	70 - 130	30		2
Ethylbenzene	B161871-BS1	LCS	20.625	21.711	ug/m3	95.0		70 - 130			1
	B161871-BSD1	LCSD	20.538	21.711	ug/m3	94.6	0.4	70 - 130	30		2
Tetrachloroethene	B161871-BS1	LCS	31.132	33.913	ug/m3	91.8		70 - 130			1
	B161871-BSD1	LCSD	30.589	33.913	ug/m3	90.2	1.8	70 - 130	30		2
Toluene	B161871-BS1	LCS	18.616	18.842	ug/m3	98.8		70 - 130			1
	B161871-BSD1	LCSD	18.352	18.842	ug/m3	97.4	1.4	70 - 130	30		2
Trichloroethene	B161871-BS1	LCS	24.665	26.869	ug/m3	91.8		70 - 130			1
	B161871-BSD1	LCSD	24.934	26.869	ug/m3	92.8	1.1	70 - 130	30		2
Trichlorofluoromethane	B161871-BS1	LCS	26.013	28.092	ug/m3	92.6		70 - 130			1
	B161871-BSD1	LCSD	26.575	28.092	ug/m3	94.6	2.1	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B161871-BS1	LCS	34.563	38.318	ug/m3	90.2		70 - 130			1
	B161871-BSD1	LCSD	34.946	38.318	ug/m3	91.2	1.1	70 - 130	30		2
p- & m-Xylenes	B161871-BS1	LCS	41.815	43.421	ug/m3	96.3		70 - 130			1
	B161871-BSD1	LCSD	41.945	43.421	ug/m3	96.6	0.3	70 - 130	30		2
o-Xylene	B161871-BS1	LCS	21.016	21.711	ug/m3	96.8		70 - 130			1
	B161871-BSD1	LCSD	21.146	21.711	ug/m3	97.4	0.6	70 - 130	30		2
Total Xylenes	B161871-BS1	LCS	62.831	65.132	ug/m3	96.5		70 - 130			1
	B161871-BSD1	LCSD	63.091	65.132	ug/m3	96.9	0.4	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161871-BS1	LCS	71.7	71.6	ug/m3	100		70 - 130			1
	B161871-BSD1	LCSD	71.1	71.6	ug/m3	99.4	0.8	70 - 130			2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/16/2023 8:06
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

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



Date of Report: 04/13/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2306911
Invoice ID: B473579

Enclosed are the results of analyses for samples received by the laboratory on 4/6/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be "BS", written over a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to be "Stuart Buttram", written over a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

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RUSH! AIR: CHAIN-OF-CUSTODY / Analytical

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed. **2306911**



23-06911

Page: 1 of 1

Section A Required Client Information:

Company: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450
Long Beach, CA 90804
Email To: arris@roux.com
Phone: 562-448-9624 Fax: [blank]
Requested Due Date/TAT: Lab request due by 01/13/13

Section B Required Project Information:

Report To: Ajay McGuire
Copy To: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
Phone: 562-448-9624
Pace Project Manager/Sales Rep: Bistama Schutte / Dawn Girnor
Pace Profile #: [blank]

Section C Invoice Information:

Attention: Roux Accounts Payable (rouxap@roux.com)
Company Name: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
Phone: 562-448-9624
Pace Project Manager/Sales Rep: Bistama Schutte / Dawn Girnor
Pace Profile #: [blank]

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

1 SV-11-1-R

COLLECTED

DATE	TIME	DATE	TIME
01/06/13	11:27	01/06/13	11:40

Flow Control Number

Summa Can Number: 2028

Control Pressure (Initial Field - psig): -28

Control Pressure (Final Field - psig): -5

RELINQUISHED BY / AFFILIATION DATE TIME

[Signature] *[Signature]* 01/06/13 1600

ACCEPTED BY / AFFILIATION DATE TIME

[Signature] *[Signature]* 01/06/13 1100

SAMPLE CONDITIONS

Temp in °C: [blank]

Received on: [blank]

Custody: [blank]

Sealed Cooler: [blank]

Samples Intact: [blank]

SAMPLER NAME AND SIGNATURE

PRINT Name of Sampler: [blank]

SIGNATURE of SAMPLER: *[Signature]*

Comments:

[blank]

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page () Of ()	
Submission #: <u>23-06911</u>					
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u> </u> Container: <u>Summa</u> Thermometer ID: <u> </u> Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Date/Time <u>4-6-23</u> Analyst Init <u>SMH/1100</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
16A PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 505/605.3/605.1A										
QT EPA 515.1/515.1A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
3oz / 16oz / 32oz AMBER										
3oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER <u>Cell L</u>										

Comments: _____ Date/Time: 4-6-23 6:05 Rev 23 05/20/22
 Sample Numbering Completed By: SMH
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/13/2023 9:32
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2306911-01	COC Number:	---	Receive Date:	04/06/2023 11:00
	Project Number:	---	Sampling Date:	04/05/2023 11:40
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-11-1-R	Lab Matrix:	Air
	Sampled By:	Travis Clow	Sample Type:	Vapor Blank

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/13/2023 9:32
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306911-01		Client Sample Name: SV-11-1-R, 4/5/2023 11:40:00AM, Travis Clow						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	280	ug/m3	85	7.3	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.4	0.46	EPA-TO-15	ND	A01	2
Allyl chloride	ND	ug/m3	3.4	0.48	EPA-TO-15	ND	A01	2
Benzene	0.92	ug/m3	3.4	0.36	EPA-TO-15	ND	J,A01	2
Benzyl chloride	ND	ug/m3	17	0.44	EPA-TO-15	ND	A01	2
Bromodichloromethane	ND	ug/m3	8.5	0.76	EPA-TO-15	ND	A01	2
Bromoform	ND	ug/m3	17	1.5	EPA-TO-15	ND	A01	2
Bromomethane	ND	ug/m3	3.4	0.80	EPA-TO-15	ND	A01	2
1,3-Butadiene	ND	ug/m3	3.4	0.37	EPA-TO-15	ND	A01	2
Carbon disulfide	12	ug/m3	3.4	0.32	EPA-TO-15	ND	A01	2
Carbon tetrachloride	ND	ug/m3	8.5	0.76	EPA-TO-15	ND	A01	2
Chlorobenzene	ND	ug/m3	8.5	0.68	EPA-TO-15	ND	A01	2
Chloroethane	ND	ug/m3	3.4	0.90	EPA-TO-15	ND	A01	2
Chloroform	1.0	ug/m3	8.5	0.92	EPA-TO-15	ND	J,A01	2
Chloromethane	ND	ug/m3	3.4	0.36	EPA-TO-15	ND	A01	2
Cyclohexane	ND	ug/m3	3.4	0.65	EPA-TO-15	ND	A01	2
Dibromochloromethane	ND	ug/m3	8.5	0.73	EPA-TO-15	ND	A01	2
1,2-Dibromoethane	ND	ug/m3	8.5	0.99	EPA-TO-15	ND	A01	2
1,2-Dichlorobenzene	ND	ug/m3	8.5	0.85	EPA-TO-15	ND	A01	2
1,3-Dichlorobenzene	ND	ug/m3	8.5	0.53	EPA-TO-15	ND	A01	2
1,4-Dichlorobenzene	ND	ug/m3	8.5	0.85	EPA-TO-15	ND	A01	2
Dichlorodifluoromethane	2.4	ug/m3	8.5	0.76	EPA-TO-15	ND	J,A01	2
1,1-Dichloroethane	ND	ug/m3	8.5	0.39	EPA-TO-15	ND	A01	2
1,2-Dichloroethane	ND	ug/m3	8.5	0.44	EPA-TO-15	ND	A01	2
1,1-Dichloroethene	ND	ug/m3	8.5	0.53	EPA-TO-15	ND	A01	2
cis-1,2-Dichloroethene	ND	ug/m3	3.4	0.54	EPA-TO-15	ND	A01	2
trans-1,2-Dichloroethene	ND	ug/m3	3.4	0.46	EPA-TO-15	ND	A01	2
1,2-Dichloropropane	ND	ug/m3	8.5	0.54	EPA-TO-15	ND	A01	2
cis-1,3-Dichloropropene	ND	ug/m3	8.5	0.51	EPA-TO-15	ND	A01	2
trans-1,3-Dichloropropene	ND	ug/m3	8.5	0.68	EPA-TO-15	ND	A01	2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.5	1.5	EPA-TO-15	ND	A01	2
1,1-Difluoroethane	ND	ug/m3	8.5	3.4	EPA-TO-15	ND	A01	2
1,4-Dioxane	ND	ug/m3	3.4	0.56	EPA-TO-15	ND	A01	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/13/2023 9:32
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306911-01		Client Sample Name: SV-11-1-R, 4/5/2023 11:40:00AM, Travis Clow						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	26	ug/m3	3.4	0.71	EPA-TO-15	ND	A01	2
Ethyl acetate	4.3	ug/m3	3.4	0.56	EPA-TO-15	ND	A01	2
Ethylbenzene	6.6	ug/m3	8.5	0.54	EPA-TO-15	ND	J,A01	2
1-Ethyl-4-methylbenzene	ND	ug/m3	8.5	0.51	EPA-TO-15	ND	A01	2
n-Heptane	ND	ug/m3	3.4	0.58	EPA-TO-15	ND	A01	2
Hexachlorobutadiene	ND	ug/m3	17	2.6	EPA-TO-15	ND	A01	2
Hexane	ND	ug/m3	8.5	0.34	EPA-TO-15	ND	A01	2
2-Hexanone	ND	ug/m3	8.5	0.49	EPA-TO-15	ND	A01	2
Isopropyl alcohol	13	ug/m3	3.4	0.54	EPA-TO-15	ND	A01	2
Methylene chloride	ND	ug/m3	17	0.68	EPA-TO-15	ND	A01	2
Methyl ethyl ketone	4.5	ug/m3	3.4	0.32	EPA-TO-15	ND	A01	2
Methyl isobutyl ketone	1.3	ug/m3	8.5	0.44	EPA-TO-15	ND	J,A01	2
Methyl t-butyl ether	ND	ug/m3	3.4	0.48	EPA-TO-15	ND	A01	2
Propylene	ND	ug/m3	3.4	0.42	EPA-TO-15	ND	A01	2
Styrene	ND	ug/m3	8.5	0.41	EPA-TO-15	ND	A01	2
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.5	0.80	EPA-TO-15	ND	A01	2
Tetrachloroethene	ND	ug/m3	3.4	0.85	EPA-TO-15	ND	A01	2
Tetrahydrofuran	ND	ug/m3	3.4	0.46	EPA-TO-15	ND	A01	2
Toluene	2.8	ug/m3	3.4	0.46	EPA-TO-15	ND	J,A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	17	1.4	EPA-TO-15	ND	A01	2
1,1,1-Trichloroethane	ND	ug/m3	8.5	0.66	EPA-TO-15	ND	A01	2
1,1,2-Trichloroethane	ND	ug/m3	8.5	1.0	EPA-TO-15	ND	A01	2
Trichloroethene	ND	ug/m3	3.4	0.92	EPA-TO-15	ND	A01	2
Trichlorofluoromethane	1.4	ug/m3	8.5	0.80	EPA-TO-15	ND	J,A01	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.5	0.94	EPA-TO-15	ND	A01	2
1,2,4-Trimethylbenzene	ND	ug/m3	8.5	0.68	EPA-TO-15	ND	A01	2
1,3,5-Trimethylbenzene	ND	ug/m3	8.5	0.68	EPA-TO-15	ND	A01	2
Vinyl acetate	ND	ug/m3	3.4	0.56	EPA-TO-15	ND	A01	2
Vinyl chloride	ND	ug/m3	3.4	0.66	EPA-TO-15	ND	A01	2
p- & m-Xylenes	29	ug/m3	8.5	1.0	EPA-TO-15	ND	A01	2
o-Xylene	8.0	ug/m3	8.5	0.51	EPA-TO-15	ND	J,A01	2
Total Xylenes	37	ug/m3	17	1.5	EPA-TO-15	ND	A01	2
4-Bromofluorobenzene (Surrogate)	94.6	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/13/2023 9:32
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306911-01	Client Sample Name: SV-11-1-R, 4/5/2023 11:40:00AM, Travis Clow
---------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
4-Bromofluorobenzene (Surrogate)	92.6	%	70 - 130 (LCL - UCL)		EPA-TO-15			2

DCN	Method	Prep Date		Run		Analyst	Instrument	Dilution	QC	
				Date/Time					Batch ID	Prep Method
1	EPA-TO-15	04/07/23	13:49	04/10/23	18:06	BEP	MS-A2	17	B163615	EPA TO-15
2	EPA-TO-15	04/07/23	13:49	04/07/23	20:32	BEP	MS-A2	1.700	B163615	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/13/2023 9:32
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163615							
Acetone	B163615-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B163615-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B163615-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B163615-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B163615-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B163615-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B163615-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B163615-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B163615-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B163615-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B163615-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B163615-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B163615-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B163615-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B163615-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B163615-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B163615-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B163615-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B163615-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B163615-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B163615-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B163615-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B163615-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B163615-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B163615-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B163615-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B163615-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B163615-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B163615-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B163615-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B163615-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B163615-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B163615-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B163615-BLK1	ND	ug/m3	2.0	0.42		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/13/2023 9:32
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163615							
Ethyl acetate	B163615-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B163615-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B163615-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B163615-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B163615-BLK1	ND	ug/m3	10	1.5		1
Hexane	B163615-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B163615-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B163615-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B163615-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B163615-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B163615-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B163615-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B163615-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B163615-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B163615-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B163615-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B163615-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B163615-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B163615-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B163615-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B163615-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B163615-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B163615-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B163615-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B163615-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B163615-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B163615-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B163615-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B163615-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B163615-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B163615-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B163615-BLK1	91.0	%	70 - 130 (LCL - UCL)			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/13/2023 9:32
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run	Analyst	Instrument	Dilution
					Date Time			
1	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/13/2023 9:32
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B163615											
Benzene	B163615-BS1	LCS	15.910	15.974	ug/m3	99.6		70 - 130			1
	B163615-BSD1	LCSD	15.527	15.974	ug/m3	97.2	2.4	70 - 130	30		2
Chloroform	B163615-BS1	LCS	23.485	24.413	ug/m3	96.2		70 - 130			1
	B163615-BSD1	LCSD	23.583	24.413	ug/m3	96.6	0.4	70 - 130	30		2
Ethylbenzene	B163615-BS1	LCS	22.101	21.711	ug/m3	102		70 - 130			1
	B163615-BSD1	LCSD	22.319	21.711	ug/m3	103	1.0	70 - 130	30		2
Tetrachloroethene	B163615-BS1	LCS	33.031	33.913	ug/m3	97.4		70 - 130			1
	B163615-BSD1	LCSD	33.913	33.913	ug/m3	100	2.6	70 - 130	30		2
Toluene	B163615-BS1	LCS	18.805	18.842	ug/m3	99.8		70 - 130			1
	B163615-BSD1	LCSD	19.031	18.842	ug/m3	101	1.2	70 - 130	30		2
Trichloroethene	B163615-BS1	LCS	26.600	26.869	ug/m3	99.0		70 - 130			1
	B163615-BSD1	LCSD	27.084	26.869	ug/m3	101	1.8	70 - 130	30		2
Trichlorofluoromethane	B163615-BS1	LCS	26.856	28.092	ug/m3	95.6		70 - 130			1
	B163615-BSD1	LCSD	27.024	28.092	ug/m3	96.2	0.6	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B163615-BS1	LCS	37.475	38.318	ug/m3	97.8		70 - 130			1
	B163615-BSD1	LCSD	37.552	38.318	ug/m3	98.0	0.2	70 - 130	30		2
p- & m-Xylenes	B163615-BS1	LCS	46.721	43.421	ug/m3	108		70 - 130			1
	B163615-BSD1	LCSD	47.025	43.421	ug/m3	108	0.6	70 - 130	30		2
o-Xylene	B163615-BS1	LCS	22.970	21.711	ug/m3	106		70 - 130			1
	B163615-BSD1	LCSD	23.447	21.711	ug/m3	108	2.1	70 - 130	30		2
Total Xylenes	B163615-BS1	LCS	69.691	65.132	ug/m3	107		70 - 130			1
	B163615-BSD1	LCSD	70.473	65.132	ug/m3	108	1.1	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B163615-BS1	LCS	71.6	71.6	ug/m3	100		70 - 130			1
	B163615-BSD1	LCSD	71.3	71.6	ug/m3	99.6	0.4	70 - 130			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B163615-BS1	LCS	EPA-TO-15	04/07/23	04/07/23	14:29	BEP	MS-A2	1
2	B163615-BSD1	LCSD	EPA-TO-15	04/07/23	04/07/23	15:08	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/13/2023 9:32
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

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



Date of Report: 04/03/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2305969
Invoice ID: B472680, B472869

Enclosed are the results of analyses for samples received by the laboratory on 3/25/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001411192

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / Analytical R
The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed. **2305969**

Page: 1 of 1

Section A
Required Client Information
Company: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450
Long Beach, CA 20904
Email To: amcgure@rouxinc.com
Phone: 562-446-8524 Fax: 562-446-8524
Requested Date: 7/25/23

Section B
Required Project Information
Report To: Agri/McGure
Copy To:
Purchase Order No:
Project Name: City Terrace
Project Number: 2805

Section C
Invoice Information
Attention: Roux Accounts Payable (roux@rouxinc.com)
Company Name: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
Pace Quote Reference: 00132481 & 00132033
Pace Project Manager/Sales Rep: Brianna Schulte (baw@rouxinc.com)
Pace Profile #:

Program
 UST Superfund Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other

Location of Sampling by State: CA
Reporting Unit: mgm ppm PMV Other

Report Level: I. X. II. III. IV. Other

Method: PM10 PM2.5 TSP SO2 NO2 CO O3 H2S NH3 VOCs SVOCs Metals Other

ITEM #	COLLECTED		RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS	
	DATE	TIME	DATE	TIME	DATE	TIME	Temp in C	Received on Ice
1	3/23/23	1416	3/24/23	1302	7-25-23	1150		
2	3/23/23	1440	3/24/23	1304				
3	3/23/23	1412	3/24/23	1303				
4	3/23/23	1442	3/24/23	1303				

Section D Required Client Information
AIR SAMPLE ID
SAMPLE IDs MUST BE UNIQUE

AA-12-1
IA-12-1
IA-12-2
IA-12-2-0

Flow Control Number
Summa Can Number
Initial Field - psi
Final Field - psi

03802
03664
-30
-50
-30
-20

Comments:
Lab report needed by 3/31/23, if not possible, turn as quick as possible after that date.

CHK BY: [Signature]
DISTRIBUTION
SUB OUT

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>	
Submission #: <u>23-05969</u>					
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Juices</u> Thermometer ID: _____ Temperature: (A) <u>Air</u> °C / (C) <u>Air</u> °C		Date/Time <u>3-25-23</u> Analyst Init <u>SEA 1150</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr*										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 503/505, 3/8081A										
QT EPA 515, 1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A	A	A						

Comments: _____
 Sample Numbering Completed By: rcd Date/Time: 3-25-23 12:50 Rev 23 05/20/22
 A = Actual / C = Corrected [E:\WPDev\Other\ProtectLAB_DOC\FORMS\SAURECvr 20g



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2305969-01	COC Number:	---	Receive Date:	03/25/2023 11:50
	Project Number:	---	Sampling Date:	03/24/2023 13:02
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AA- 12-1	Lab Matrix:	Air
	Sampled By:	james	Sample Type:	Vapor or Air
2305969-02	COC Number:	---	Receive Date:	03/25/2023 11:50
	Project Number:	---	Sampling Date:	03/24/2023 13:04
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA- 12-1	Lab Matrix:	Air
	Sampled By:	james	Sample Type:	Vapor or Air
2305969-03	COC Number:	---	Receive Date:	03/25/2023 11:50
	Project Number:	---	Sampling Date:	03/24/2023 13:03
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-12-2	Lab Matrix:	Air
	Sampled By:	james	Sample Type:	Vapor or Air
2305969-04	COC Number:	---	Receive Date:	03/25/2023 11:50
	Project Number:	---	Sampling Date:	03/24/2023 13:03
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-12-2-D	Lab Matrix:	Air
	Sampled By:	james	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305969-01		Client Sample Name: AA- 12-1, 3/24/2023 1:02:00PM, james						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	6.8	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	5.9	ug/m3	10	0.075	EPA-TO-15-SIM	ND	J,A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.48	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.55	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.4	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.3	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.6	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305969-01		Client Sample Name: AA- 12-1, 3/24/2023 1:02:00PM, james						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	0.51	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	5.7	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.23	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	2.3	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305969-01		Client Sample Name: AA- 12-1, 3/24/2023 1:02:00PM, james						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	0.83	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.1	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.62	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	0.65	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	0.86	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.29	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1
Total Xylenes	1.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	94.0	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	95.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	100	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305969-01		Client Sample Name: AA- 12-1, 3/24/2023 1:02:00PM, james							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/27/23 13:05	03/27/23 23:04	BEP	MS-A2	1	B162825	EPA TO-15	
2	EPA-TO-15-SIM	03/27/23 13:49	03/28/23 13:04	BEP	MS-A1	10	B162657	EPA TO-15	
3	EPA-TO-15-SIM	03/27/23 13:49	03/28/23 10:43	BEP	MS-A1	1	B162657	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2305969-01	Client Sample Name: AA- 12-1, 3/24/2023 1:02:00PM, james
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.4	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/27/23 08:11	03/27/23 16:59	RMK	GC-A1	1	B162819	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305969-02		Client Sample Name: IA- 12-1, 3/24/2023 1:04:00PM, james						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	28	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	26	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.67	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.80	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.6	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.3	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.7	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	2

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Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305969-02		Client Sample Name: IA- 12-1, 3/24/2023 1:04:00PM, james						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	0.33	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	69	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	0.72	ug/m3	2.0	0.33	EPA-TO-15	ND	J	1
Ethylbenzene	0.65	ug/m3	5.0	0.32	EPA-TO-15	ND	J	1
Ethylbenzene	0.78	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	34	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	2.0	0.077	EPA-TO-15-SIM	ND	A01	2
Methyl ethyl ketone	1.5	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Reported: 04/03/2023 14:11
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 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305969-02		Client Sample Name: IA- 12-1, 3/24/2023 1:04:00PM, james						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	0.81	ug/m3	2.0	0.50	EPA-TO-15	ND	J	1
Tetrachloroethene	0.81	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	2.2	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	2.4	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.5	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.8	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.65	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
o-Xylene	0.78	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	2.1	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	2.6	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	95.8	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	97.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	111	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305969-02		Client Sample Name: IA- 12-1, 3/24/2023 1:04:00PM, james							
DCN	Method	Prep Date	Run Date/Time		Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-TO-15	03/27/23 13:05	03/27/23	23:48	BEP	MS-A2	1	B162825	EPA TO-15
2	EPA-TO-15-SIM	03/27/23 13:49	03/28/23	13:34	BEP	MS-A1	10	B162657	EPA TO-15
3	EPA-TO-15-SIM	03/27/23 13:49	03/28/23	11:20	BEP	MS-A1	1	B162657	EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2305969-02	Client Sample Name: IA- 12-1, 3/24/2023 1:04:00PM, james
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.2	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/27/23 08:11	03/27/23 17:20	RMK	GC-A1	1	B162819	No Prep

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305969-03		Client Sample Name: IA-12-2, 3/24/2023 1:03:00PM, james						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	25	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	1
Acetone	26	ug/m3	5.0	0.43	EPA-TO-15	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		2
Benzene	0.61	ug/m3	2.0	0.21	EPA-TO-15	ND	J	2
Benzene	0.72	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		2
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		2
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		2
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		2
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		2
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		2
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.6	ug/m3	2.0	0.21	EPA-TO-15	ND	J	2
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		2
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		2
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	3.0	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	1
Dichlorodifluoromethane	2.5	ug/m3	5.0	0.45	EPA-TO-15	ND	J	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305969-03		Client Sample Name: IA-12-2, 3/24/2023 1:03:00PM, james						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		2
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		2
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		2
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		2
1,1-Difluoroethane	0.44	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Ethanol	75	ug/m3	2.0	0.42	EPA-TO-15	ND		2
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Ethylbenzene	0.87	ug/m3	5.0	0.32	EPA-TO-15	ND	J	2
Ethylbenzene	1.0	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		2
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		2
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		2
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		2
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		2
Isopropyl alcohol	33	ug/m3	2.0	0.32	EPA-TO-15	ND		2
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		2
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.4	ug/m3	2.0	0.19	EPA-TO-15	ND	J	2
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		2
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305969-03		Client Sample Name: IA-12-2, 3/24/2023 1:03:00PM, james						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		2
Styrene	0.51	ug/m3	5.0	0.24	EPA-TO-15	ND	J	2
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		2
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		2
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
Toluene	3.5	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1
Toluene	2.9	ug/m3	2.0	0.27	EPA-TO-15	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		2
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		2
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		2
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	2
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		2
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.7	ug/m3	5.0	0.61	EPA-TO-15	ND	J	2
p- & m-Xylenes	2.1	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.78	ug/m3	5.0	0.30	EPA-TO-15	ND	J	2
o-Xylene	0.95	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	2.5	ug/m3	10	0.91	EPA-TO-15	ND	J	2
Total Xylenes	3.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	96.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	97.2	%	70 - 130 (LCL - UCL)		EPA-TO-15			2
4-Bromofluorobenzene (Surrogate)	110	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Reported: 04/03/2023 14:11
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305969-03		Client Sample Name: IA-12-2, 3/24/2023 1:03:00PM, james							
DCN	Method	Prep Date	Run Date/Time		Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-TO-15-SIM	03/27/23 13:49	03/28/23	14:04	BEP	MS-A1	10	B162657	EPA TO-15
2	EPA-TO-15	03/27/23 13:05	03/28/23	00:31	BEP	MS-A2	1	B162825	EPA TO-15
3	EPA-TO-15-SIM	03/27/23 13:49	03/28/23	11:56	BEP	MS-A1	1	B162657	EPA TO-15

DCN = Data Continuation Number

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Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2305969-03	Client Sample Name: IA-12-2, 3/24/2023 1:03:00PM, james
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.3	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/27/23 08:11	03/27/23 17:40	RMK	GC-A1	1	B162819	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305969-04		Client Sample Name: IA-12-2-D, 3/24/2023 1:03:00PM, james						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	28	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	28	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.64	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.74	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.6	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.3	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.9	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305969-04		Client Sample Name: IA-12-2-D, 3/24/2023 1:03:00PM, james						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	0.45	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	69	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	0.87	ug/m3	5.0	0.32	EPA-TO-15	ND	J	1
Ethylbenzene	1.1	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	33	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	2.6	ug/m3	10	0.40	EPA-TO-15	ND	J	1
Methylene chloride	ND	ug/m3	2.0	0.077	EPA-TO-15-SIM	ND	A01	2
Methyl ethyl ketone	1.4	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305969-04		Client Sample Name: IA-12-2-D, 3/24/2023 1:03:00PM, james						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		1
Styrene	0.43	ug/m3	5.0	0.24	EPA-TO-15	ND	J	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	2.8	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	3.1	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.7	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	2.2	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.78	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
o-Xylene	0.99	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	2.5	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	3.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	95.8	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	99.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	117	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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 Long Beach, CA 90804

Reported: 04/03/2023 14:11
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305969-04		Client Sample Name: IA-12-2-D, 3/24/2023 1:03:00PM, james							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/27/23 13:05	03/28/23 01:14	BEP	MS-A2	1	B162825	EPA TO-15	
2	EPA-TO-15-SIM	03/27/23 13:49	03/28/23 15:56	BEP	MS-A1	10	B162657	EPA TO-15	
3	EPA-TO-15-SIM	03/27/23 13:49	03/28/23 12:33	BEP	MS-A1	1	B162657	EPA TO-15	

DCN = Data Continuation Number

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Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2305969-04	Client Sample Name: IA-12-2-D, 3/24/2023 1:03:00PM, james
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	1.9	ppmv	2.0	1.8	ASTM-D1946	ND	J	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/27/23 08:11	03/27/23 18:00	RMK	GC-A1	1	B162819	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162657							
Acetone	B162657-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B162657-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B162657-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B162657-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B162657-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B162657-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B162657-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B162657-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B162657-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B162657-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B162657-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B162657-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B162657-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B162657-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B162657-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B162657-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B162657-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B162657-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B162657-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B162657-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B162657-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B162657-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B162657-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B162657-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B162657-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B162657-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B162657-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B162657-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B162657-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B162657-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B162657-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B162657-BLK1	89.3	%	50 - 150 (LCL - UCL)			1
QC Batch ID: B162825							

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Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162825							
Acetone	B162825-BLK1	ND	ug/m3	5.0	0.43		2
Acrylonitrile	B162825-BLK1	ND	ug/m3	2.0	0.27		2
Allyl chloride	B162825-BLK1	ND	ug/m3	2.0	0.28		2
Benzene	B162825-BLK1	ND	ug/m3	2.0	0.21		2
Benzyl chloride	B162825-BLK1	ND	ug/m3	10	0.26		2
Bromodichloromethane	B162825-BLK1	ND	ug/m3	5.0	0.45		2
Bromoform	B162825-BLK1	ND	ug/m3	10	0.86		2
Bromomethane	B162825-BLK1	ND	ug/m3	2.0	0.47		2
1,3-Butadiene	B162825-BLK1	ND	ug/m3	2.0	0.22		2
Carbon disulfide	B162825-BLK1	ND	ug/m3	2.0	0.19		2
Carbon tetrachloride	B162825-BLK1	ND	ug/m3	5.0	0.45		2
Chlorobenzene	B162825-BLK1	ND	ug/m3	5.0	0.40		2
Chloroethane	B162825-BLK1	ND	ug/m3	2.0	0.53		2
Chloroform	B162825-BLK1	ND	ug/m3	5.0	0.54		2
Chloromethane	B162825-BLK1	ND	ug/m3	2.0	0.21		2
Cyclohexane	B162825-BLK1	ND	ug/m3	2.0	0.38		2
Dibromochloromethane	B162825-BLK1	ND	ug/m3	5.0	0.43		2
1,2-Dibromoethane	B162825-BLK1	ND	ug/m3	5.0	0.58		2
1,2-Dichlorobenzene	B162825-BLK1	ND	ug/m3	5.0	0.50		2
1,3-Dichlorobenzene	B162825-BLK1	ND	ug/m3	5.0	0.31		2
1,4-Dichlorobenzene	B162825-BLK1	ND	ug/m3	5.0	0.50		2
Dichlorodifluoromethane	B162825-BLK1	ND	ug/m3	5.0	0.45		2
1,1-Dichloroethane	B162825-BLK1	ND	ug/m3	5.0	0.23		2
1,2-Dichloroethane	B162825-BLK1	ND	ug/m3	5.0	0.26		2
1,1-Dichloroethene	B162825-BLK1	ND	ug/m3	5.0	0.31		2
cis-1,2-Dichloroethene	B162825-BLK1	ND	ug/m3	2.0	0.32		2
trans-1,2-Dichloroethene	B162825-BLK1	ND	ug/m3	2.0	0.27		2
1,2-Dichloropropane	B162825-BLK1	ND	ug/m3	5.0	0.32		2
cis-1,3-Dichloropropene	B162825-BLK1	ND	ug/m3	5.0	0.30		2
trans-1,3-Dichloropropene	B162825-BLK1	ND	ug/m3	5.0	0.40		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162825-BLK1	ND	ug/m3	5.0	0.91		2
1,1-Difluoroethane	B162825-BLK1	ND	ug/m3	5.0	2.0		2
1,4-Dioxane	B162825-BLK1	ND	ug/m3	2.0	0.33		2
Ethanol	B162825-BLK1	ND	ug/m3	2.0	0.42		2

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 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162825							
Ethyl acetate	B162825-BLK1	ND	ug/m3	2.0	0.33		2
Ethylbenzene	B162825-BLK1	ND	ug/m3	5.0	0.32		2
1-Ethyl-4-methylbenzene	B162825-BLK1	ND	ug/m3	5.0	0.30		2
n-Heptane	B162825-BLK1	ND	ug/m3	2.0	0.34		2
Hexachlorobutadiene	B162825-BLK1	ND	ug/m3	10	1.5		2
Hexane	B162825-BLK1	ND	ug/m3	5.0	0.20		2
2-Hexanone	B162825-BLK1	ND	ug/m3	5.0	0.29		2
Isopropyl alcohol	B162825-BLK1	ND	ug/m3	2.0	0.32		2
Methylene chloride	B162825-BLK1	ND	ug/m3	10	0.40		2
Methyl ethyl ketone	B162825-BLK1	ND	ug/m3	2.0	0.19		2
Methyl isobutyl ketone	B162825-BLK1	ND	ug/m3	5.0	0.26		2
Methyl t-butyl ether	B162825-BLK1	ND	ug/m3	2.0	0.28		2
Propylene	B162825-BLK1	ND	ug/m3	2.0	0.25		2
Styrene	B162825-BLK1	ND	ug/m3	5.0	0.24		2
1,1,2,2-Tetrachloroethane	B162825-BLK1	ND	ug/m3	5.0	0.47		2
Tetrachloroethene	B162825-BLK1	ND	ug/m3	2.0	0.50		2
Tetrahydrofuran	B162825-BLK1	ND	ug/m3	2.0	0.27		2
Toluene	B162825-BLK1	ND	ug/m3	2.0	0.27		2
1,2,4-Trichlorobenzene	B162825-BLK1	ND	ug/m3	10	0.82		2
1,1,1-Trichloroethane	B162825-BLK1	ND	ug/m3	5.0	0.39		2
1,1,2-Trichloroethane	B162825-BLK1	ND	ug/m3	5.0	0.61		2
Trichloroethene	B162825-BLK1	ND	ug/m3	2.0	0.54		2
Trichlorofluoromethane	B162825-BLK1	ND	ug/m3	5.0	0.47		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B162825-BLK1	ND	ug/m3	5.0	0.55		2
1,2,4-Trimethylbenzene	B162825-BLK1	ND	ug/m3	5.0	0.40		2
1,3,5-Trimethylbenzene	B162825-BLK1	ND	ug/m3	5.0	0.40		2
Vinyl acetate	B162825-BLK1	ND	ug/m3	2.0	0.33		2
Vinyl chloride	B162825-BLK1	ND	ug/m3	2.0	0.39		2
p- & m-Xylenes	B162825-BLK1	ND	ug/m3	5.0	0.61		2
o-Xylene	B162825-BLK1	ND	ug/m3	5.0	0.30		2
Total Xylenes	B162825-BLK1	ND	ug/m3	10	0.91		2
4-Bromofluorobenzene (Surrogate)	B162825-BLK1	94.1	%	70 - 130 (LCL - UCL)			2

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 14:11
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162657-BLK1	PB	EPA-TO-15-SIM	03/27/23	03/27/23 23:34	BEP	MS-A1	1
2	B162825-BLK1	PB	EPA-TO-15	03/27/23	03/27/23 18:46	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162657											
Benzene	B162657-BS1	LCS	0.28312	0.31948	ug/m3	88.6		70 - 130			1
	B162657-BSD1	LCSD	0.28270	0.31948	ug/m3	88.5	0.1	70 - 130	30		2
Benzyl chloride	B162657-BS1	LCS	0.47045	0.51772	ug/m3	90.9		70 - 130		J	1
	B162657-BSD1	LCSD	0.47491	0.51772	ug/m3	91.7	0.9	70 - 130	30	J	2
Carbon tetrachloride	B162657-BS1	LCS	0.57176	0.62913	ug/m3	90.9		70 - 130			1
	B162657-BSD1	LCSD	0.58012	0.62913	ug/m3	92.2	1.5	70 - 130	30		2
Chlorobenzene	B162657-BS1	LCS	0.43780	0.46036	ug/m3	95.1		70 - 130			1
	B162657-BSD1	LCSD	0.53944	0.46036	ug/m3	117	20.8	70 - 130	30		2
Chloroform	B162657-BS1	LCS	0.44944	0.48825	ug/m3	92.1		70 - 130			1
	B162657-BSD1	LCSD	0.45149	0.48825	ug/m3	92.5	0.5	70 - 130	30		2
1,2-Dibromoethane	B162657-BS1	LCS	0.71472	0.76835	ug/m3	93.0		70 - 130			1
	B162657-BSD1	LCSD	0.72186	0.76835	ug/m3	93.9	1.0	70 - 130	30		2
1,2-Dichlorobenzene	B162657-BS1	LCS	0.57917	0.60124	ug/m3	96.3		70 - 130			1
	B162657-BSD1	LCSD	0.53823	0.60124	ug/m3	89.5	7.3	70 - 130	30		2
1,3-Dichlorobenzene	B162657-BS1	LCS	0.56973	0.60124	ug/m3	94.8		70 - 130			1
	B162657-BSD1	LCSD	0.56426	0.60124	ug/m3	93.8	1.0	70 - 130	30		2
1,4-Dichlorobenzene	B162657-BS1	LCS	0.56149	0.60124	ug/m3	93.4		70 - 130			1
	B162657-BSD1	LCSD	0.55464	0.60124	ug/m3	92.2	1.2	70 - 130	30		2
1,1-Dichloroethane	B162657-BS1	LCS	0.36204	0.40474	ug/m3	89.4		70 - 130			1
	B162657-BSD1	LCSD	0.36414	0.40474	ug/m3	90.0	0.6	70 - 130	30		2
1,2-Dichloroethane	B162657-BS1	LCS	0.36172	0.40474	ug/m3	89.4		70 - 130			1
	B162657-BSD1	LCSD	0.36419	0.40474	ug/m3	90.0	0.7	70 - 130	30		2
1,1-Dichloroethene	B162657-BS1	LCS	0.35915	0.39649	ug/m3	90.6		70 - 130			1
	B162657-BSD1	LCSD	0.36791	0.39649	ug/m3	92.8	2.4	70 - 130	30		2
cis-1,2-Dichloroethene	B162657-BS1	LCS	0.35244	0.39649	ug/m3	88.9		70 - 130			1
	B162657-BSD1	LCSD	0.34836	0.39649	ug/m3	87.9	1.2	70 - 130	30		2
Methylene chloride	B162657-BS1	LCS	0.34018	0.34737	ug/m3	97.9		70 - 130			1
	B162657-BSD1	LCSD	0.34008	0.34737	ug/m3	97.9	0.0	70 - 130	30		2
Tetrachloroethene	B162657-BS1	LCS	0.62074	0.67825	ug/m3	91.5		70 - 130			1
	B162657-BSD1	LCSD	0.61273	0.67825	ug/m3	90.3	1.3	70 - 130	30		2
Toluene	B162657-BS1	LCS	0.34689	0.37684	ug/m3	92.0		70 - 130			1
	B162657-BSD1	LCSD	0.34753	0.37684	ug/m3	92.2	0.2	70 - 130	30		2
1,1,1-Trichloroethane	B162657-BS1	LCS	0.50088	0.54562	ug/m3	91.8		70 - 130			1
	B162657-BSD1	LCSD	0.49831	0.54562	ug/m3	91.3	0.5	70 - 130	30		2
1,1,2-Trichloroethane	B162657-BS1	LCS	0.49024	0.54562	ug/m3	89.9		70 - 130			1
	B162657-BSD1	LCSD	0.49319	0.54562	ug/m3	90.4	0.6	70 - 130	30		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B162657											
Trichloroethene	B162657-BS1	LCS	0.49712	0.53737	ug/m3	92.5		70 - 130			1
	B162657-BSD1	LCSD	0.48305	0.53737	ug/m3	89.9	2.9	70 - 130	30		2
Vinyl chloride	B162657-BS1	LCS	0.23578	0.25562	ug/m3	92.2		70 - 130			1
	B162657-BSD1	LCSD	0.23353	0.25562	ug/m3	91.4	1.0	70 - 130	30		2
p- & m-Xylenes	B162657-BS1	LCS	0.80086	0.86843	ug/m3	92.2		70 - 130			1
	B162657-BSD1	LCSD	0.78870	0.86843	ug/m3	90.8	1.5	70 - 130	30		2
o-Xylene	B162657-BS1	LCS	0.40373	0.43421	ug/m3	93.0		70 - 130			1
	B162657-BSD1	LCSD	0.39422	0.43421	ug/m3	90.8	2.4	70 - 130	30		2
Total Xylenes	B162657-BS1	LCS	1.2046	1.3026	ug/m3	92.5		70 - 130			1
	B162657-BSD1	LCSD	1.1829	1.3026	ug/m3	90.8	1.8	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B162657-BS1	LCS	3.64	3.58	ug/m3	102		50 - 150			1
	B162657-BSD1	LCSD	3.46	3.58	ug/m3	96.8	5.1	50 - 150			2
QC Batch ID: B162825											
Benzene	B162825-BS1	LCS	15.335	15.974	ug/m3	96.0		70 - 130			3
	B162825-BSD1	LCSD	15.175	15.974	ug/m3	95.0	1.0	70 - 130	30		4
Chloroform	B162825-BS1	LCS	23.583	24.413	ug/m3	96.6		70 - 130			3
	B162825-BSD1	LCSD	23.290	24.413	ug/m3	95.4	1.2	70 - 130	30		4
Ethylbenzene	B162825-BS1	LCS	21.667	21.711	ug/m3	99.8		70 - 130			3
	B162825-BSD1	LCSD	21.667	21.711	ug/m3	99.8	0	70 - 130	30		4
Tetrachloroethene	B162825-BS1	LCS	33.438	33.913	ug/m3	98.6		70 - 130			3
	B162825-BSD1	LCSD	33.709	33.913	ug/m3	99.4	0.8	70 - 130	30		4
Toluene	B162825-BS1	LCS	18.805	18.842	ug/m3	99.8		70 - 130			3
	B162825-BSD1	LCSD	18.955	18.842	ug/m3	101	0.8	70 - 130	30		4
Trichloroethene	B162825-BS1	LCS	26.493	26.869	ug/m3	98.6		70 - 130			3
	B162825-BSD1	LCSD	26.707	26.869	ug/m3	99.4	0.8	70 - 130	30		4
Trichlorofluoromethane	B162825-BS1	LCS	27.698	28.092	ug/m3	98.6		70 - 130			3
	B162825-BSD1	LCSD	26.912	28.092	ug/m3	95.8	2.9	70 - 130	30		4
1,1,2-Trichloro-1,2,2-trifluoroethane	B162825-BS1	LCS	37.552	38.318	ug/m3	98.0		70 - 130			3
	B162825-BSD1	LCSD	36.785	38.318	ug/m3	96.0	2.1	70 - 130	30		4
p- & m-Xylenes	B162825-BS1	LCS	45.375	43.421	ug/m3	104		70 - 130			3
	B162825-BSD1	LCSD	45.809	43.421	ug/m3	106	1.0	70 - 130	30		4
o-Xylene	B162825-BS1	LCS	22.622	21.711	ug/m3	104		70 - 130			3
	B162825-BSD1	LCSD	22.796	21.711	ug/m3	105	0.8	70 - 130	30		4
Total Xylenes	B162825-BS1	LCS	67.998	65.132	ug/m3	104		70 - 130			3
	B162825-BSD1	LCSD	68.606	65.132	ug/m3	105	0.9	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B162825-BS1	LCS	71.6	71.6	ug/m3	100		70 - 130			3
	B162825-BSD1	LCSD	72.4	71.6	ug/m3	101	1.2	70 - 130			4

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 14:11
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162657-BS1	LCS	EPA-TO-15-SIM	03/27/23	03/27/23 22:35	BEP	MS-A1	1
2	B162657-BSD1	LCSD	EPA-TO-15-SIM	03/27/23	03/27/23 23:06	BEP	MS-A1	1
3	B162825-BS1	LCS	EPA-TO-15	03/27/23	03/27/23 17:31	BEP	MS-A2	1
4	B162825-BSD1	LCSD	EPA-TO-15	03/27/23	03/27/23 18:10	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B162819

Methane (CH4)	B162819-BLK1	ND	ppmv	2.0	1.8		1
---------------	--------------	----	------	-----	-----	--	---

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162819-BLK1	PB	ASTM-D1946	03/27/23	03/27/23 16:25	RMK	GC-A1	1

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 Long Beach, CA 90804

Reported: 04/03/2023 14:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162819											
Methane (CH4)	B162819-BS1	LCS	18325	18000	ppmv	102		70 - 130			1
	B162819-BSD1	LCSD	18338	18000	ppmv	102	0.1	70 - 130	30		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162819-BS1	LCS	ASTM-D1946	03/27/23	03/27/23	15:08	RMK	GC-A1	1
2	B162819-BSD1	LCSD	ASTM-D1946	03/27/23	03/27/23	15:29	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 14:11
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

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



Date of Report: 04/07/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2306084
Invoice ID: B472899

Enclosed are the results of analyses for samples received by the laboratory on 3/28/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001411935

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 2306084

Due to a very large unknown peak present in 2306084-01 the sample had to be diluted.



Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/07/2023 10:55
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Case Narrative

Sample Receipt

COC Number:

Samples received refrigerated to 25 °C

Sample List

<u>Lab Number</u>	<u>Date/Time Sampled</u>	<u>Sample Name</u>
2306084-01	03/27/2023 10:40	SV-12-1
2306084-02	03/27/2023 11:08	SV-12-2

Requested Analysis

EPA-TO-15

<u>Sample</u>	<u>Analyte</u>	<u>Flag</u>
---------------	----------------	-------------

Sample Qualifier Summary

There are no qualifiers for the samples.

Holding Times

All holding time requirements were met.

Method Blanks

There were no detections in the Method Blank(s).

LCS

The LCS recoveries are within QC limits.

Discussion

2306084

AIR: CHAIN-OF-CUSTODY / Analytical Re

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

Section A Required Client Information:

Company: Roux
 Address: 5150 E. Pacific Coast Hwy, Ste. 450
 Long Beach, CA 90804
 Email To: amc@rouxinc.com
 Phone: 562-448-8624 Fax: by 4/3/23
 (Requested Disc. Data/TAT: Signature)

Section B Required Project Information:

Report To: April McDuire
 Copy To: _____
 Purchase Order No.: _____
 Project Name: City Terrace
 Project Number: 2855

Section C Invoice Information:

Attention: Roux Accounts Payable (roux@rouxinc.com)
 Company Name: Roux
 Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
 PACE Quote Reference: 00132481 & 00132533
 PACE Project Manager/Sales Rep: Brianne Schulte / Dawn Ginnor
 PACE Profile #: _____

Section D Required Client Information

AIR SAMPLE ID
 Sample IDs MUST BE UNIQUE

ITEM #	CODE	DATE	TIME	CONCENTRATION
1	SU-12-1	03/31/23	10:40	10409
2	SU-12-2	03/31/23	11:08	10318

Comments: Lab report needed by 03/31/23; if not possible, then as soon as possible thereafter

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
<u>April McDuire / Roux</u>	<u>03/31/23</u>	<u>15:20</u>	<u>Dawn Ginnor</u>	<u>3-28-23</u>	<u>16:15</u>

Method: PM10
TO-15 TO-15 SM
TO-15 Short List
TO-15
TO-14
TO-13 (PM10)
TO-12 (PM10)
TO-11 (PM10)
TO-10 (PM10)
TO-9
TO-8 (PM10)
TO-7 (PM10)
TO-6 (PM10)
TO-5
TO-4 (PM10)
TO-3
TO-2 (PM10)
TO-1 (PM10)

Program: UST Superfund Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other

Location of Sampling by State: CA

Report Level: I II III IV Other

Flow Control Number

Summa Can Number	Flow Control Number
10409	1359
10318	1249

COLLECTED

DATE	TIME	DATE	TIME
03/31/23	10:40	03/31/23	11:08
03/31/23	11:08	03/31/23	11:08

RELINQUISHED BY / AFFILIATION April McDuire / Roux **DATE** 03/31/23 **TIME** 15:20

ACCEPTED BY / AFFILIATION Dawn Ginnor **DATE** 3-28-23 **TIME** 16:15

Temp in °C

Received on	Y/N	Y/N	Y/N	Y/N	Y/N
Ice	Y/N	Y/N	Y/N	Y/N	Y/N
Sealed Cooler	Y/N	Y/N	Y/N	Y/N	Y/N
Samples intact	Y/N	Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

Terris Clow
[Signature]
 DATE SIGNATURE WAS COPIED: 03/27/23

CHK BY DISTRIBUTION
RTH
SUB OUT

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 of 1	
Submission #: <u>23-06084</u>					
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Summa</u> Thermometer ID: _____		Date/Time: <u>3-28-23</u>	
		Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Analyst Init: <u>SMH 1043</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 5B4										
QT EPA 508/608, 3/081A										
QT EPA 515.1/5151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
5oz EPA 548.1										
QT EPA 549.2										
QT EPA 5015M										
QT EPA 5270C										
3oz / 16oz / 32oz AMBER										
3oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER <u>1-4L</u>	<u>A</u>	<u>A</u>								

Comments: _____
 Sample Numbering Completed By: JCD Date/Time: 3-28-23 1125 Rev 23 05/20/22
 A = Actual / C = Corrected (S:\NYD\Work\ford\PerfectLAB_DCS\FORMS\MSA\RECrev 20)



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/07/2023 10:55
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2306084-01	COC Number:	---	Receive Date:	03/28/2023 10:43
	Project Number:	---	Sampling Date:	03/27/2023 10:40
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-12-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2306084-02	COC Number:	---	Receive Date:	03/28/2023 10:43
	Project Number:	---	Sampling Date:	03/27/2023 11:08
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-12-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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 Long Beach, CA 90804

Reported: 04/07/2023 10:55
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306084-01		Client Sample Name: SV-12-1, 3/27/2023 10:40:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	ND	ug/m3	770	66	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	310	42	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	310	43	EPA-TO-15	ND	A01	1
Benzene	ND	ug/m3	310	32	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	1500	40	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	770	69	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	1500	130	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	310	72	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	310	34	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ug/m3	310	29	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	770	69	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	770	62	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	310	82	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	770	83	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	310	32	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	310	59	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	770	66	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	770	89	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	770	77	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	770	48	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	770	77	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ug/m3	770	69	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	770	35	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	770	40	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	770	48	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	310	49	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	310	42	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	770	49	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	770	46	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	770	62	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	770	140	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	770	310	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	310	51	EPA-TO-15	ND	A01	1

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 Long Beach, CA 90804

Reported: 04/07/2023 10:55
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306084-01		Client Sample Name: SV-12-1, 3/27/2023 10:40:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	ND	ug/m3	310	65	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	310	51	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3	770	49	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	770	46	EPA-TO-15	ND	A01	1
n-Heptane	ND	ug/m3	310	52	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	1500	230	EPA-TO-15	ND	A01	1
Hexane	ND	ug/m3	770	31	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ug/m3	770	45	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3	310	49	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	1500	62	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	ND	ug/m3	310	29	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ug/m3	770	40	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	310	43	EPA-TO-15	ND	A01	1
Propylene	130	ug/m3	310	38	EPA-TO-15	ND	J,A01	1
Styrene	72	ug/m3	770	37	EPA-TO-15	ND	J,A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	770	72	EPA-TO-15	ND	A01	1
Tetrachloroethene	100	ug/m3	310	77	EPA-TO-15	ND	J,A01	1
Tetrahydrofuran	ND	ug/m3	310	42	EPA-TO-15	ND	A01	1
Toluene	240	ug/m3	310	42	EPA-TO-15	ND	J,A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	1500	130	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	770	60	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	770	94	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	310	83	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	ND	ug/m3	770	72	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	770	85	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	ND	ug/m3	770	62	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	770	62	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	310	51	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	310	60	EPA-TO-15	ND	A01	1
p- & m-Xylenes	200	ug/m3	770	94	EPA-TO-15	ND	J,A01	1
o-Xylene	74	ug/m3	770	46	EPA-TO-15	ND	J,A01	1
Total Xylenes	270	ug/m3	1500	140	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	97.9	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/07/2023 10:55
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306084-01	Client Sample Name: SV-12-1, 3/27/2023 10:40:00AM, Client
----------------------------------	--

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15	03/30/23 13:16	03/31/23 09:55		BEP	MS-A2	154	B163114	EPA TO-15

DCN = Data Continuation Number

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Reported: 04/07/2023 10:55
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306084-02		Client Sample Name: SV-12-2, 3/27/2023 11:08:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	30	ug/m3	8.0	0.69	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Benzene	5.9	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.42	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.2	0.76	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.2	0.35	EPA-TO-15	ND	A01	1
Carbon disulfide	20	ug/m3	3.2	0.31	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.2	0.85	EPA-TO-15	ND	A01	1
Chloroform	1.2	ug/m3	8.0	0.87	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	3.2	0.61	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	8.0	0.69	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.0	0.93	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.0	0.50	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.3	ug/m3	8.0	0.72	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.0	0.37	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.0	0.42	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.0	0.50	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.0	0.52	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.0	0.48	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.0	1.5	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.0	3.2	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/07/2023 10:55
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306084-02		Client Sample Name: SV-12-2, 3/27/2023 11:08:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	15	ug/m3	3.2	0.68	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1
Ethylbenzene	7.2	ug/m3	8.0	0.52	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	4.6	ug/m3	8.0	0.48	EPA-TO-15	ND	J,A01	1
n-Heptane	0.79	ug/m3	3.2	0.55	EPA-TO-15	ND	J,A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	1
Hexane	4.0	ug/m3	8.0	0.32	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	8.0	0.47	EPA-TO-15	ND	A01	1
Isopropyl alcohol	5.0	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.64	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	1.5	ug/m3	3.2	0.31	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	ND	ug/m3	8.0	0.42	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Propylene	6.2	ug/m3	3.2	0.40	EPA-TO-15	ND	A01	1
Styrene	0.96	ug/m3	8.0	0.39	EPA-TO-15	ND	J,A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.0	0.76	EPA-TO-15	ND	A01	1
Tetrachloroethene	2.6	ug/m3	3.2	0.80	EPA-TO-15	ND	J,A01	1
Tetrahydrofuran	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Toluene	23	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.0	0.63	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.0	0.98	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.2	0.87	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.5	ug/m3	8.0	0.76	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.0	0.89	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	8.8	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	2.2	ug/m3	8.0	0.64	EPA-TO-15	ND	J,A01	1
Vinyl acetate	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.2	0.63	EPA-TO-15	ND	A01	1
p- & m-Xylenes	31	ug/m3	8.0	0.98	EPA-TO-15	ND	A01	1
o-Xylene	11	ug/m3	8.0	0.48	EPA-TO-15	ND	A01	1
Total Xylenes	42	ug/m3	16	1.5	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	95.0	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/07/2023 10:55
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306084-02	Client Sample Name: SV-12-2, 3/27/2023 11:08:00AM, Client
----------------------------------	--

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15	03/30/23 13:16	03/31/23	03:04	BEP	MS-A2	1.610	B163114	EPA TO-15

DCN = Data Continuation Number

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Reported: 04/07/2023 10:55
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163114							
Acetone	B163114-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B163114-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B163114-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B163114-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B163114-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B163114-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B163114-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B163114-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B163114-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B163114-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B163114-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B163114-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B163114-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B163114-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B163114-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B163114-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B163114-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B163114-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B163114-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B163114-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B163114-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B163114-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B163114-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B163114-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B163114-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B163114-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B163114-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B163114-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B163114-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B163114-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B163114-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B163114-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B163114-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B163114-BLK1	ND	ug/m3	2.0	0.42		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/07/2023 10:55
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163114							
Ethyl acetate	B163114-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B163114-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B163114-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B163114-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B163114-BLK1	ND	ug/m3	10	1.5		1
Hexane	B163114-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B163114-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B163114-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B163114-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B163114-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B163114-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B163114-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B163114-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B163114-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B163114-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B163114-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B163114-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B163114-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B163114-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B163114-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B163114-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B163114-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B163114-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B163114-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B163114-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B163114-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B163114-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B163114-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B163114-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B163114-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B163114-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B163114-BLK1	91.0	%	70 - 130 (LCL - UCL)			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/07/2023 10:55
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23	23:19	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/07/2023 10:55
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B163114											
Benzene	B163114-BS1	LCS	15.878	15.974	ug/m3	99.4		70 - 130			1
	B163114-BSD1	LCSD	15.846	15.974	ug/m3	99.2	0.2	70 - 130	30		2
Chloroform	B163114-BS1	LCS	23.436	24.413	ug/m3	96.0		70 - 130			1
	B163114-BSD1	LCSD	23.241	24.413	ug/m3	95.2	0.8	70 - 130	30		2
Ethylbenzene	B163114-BS1	LCS	22.883	21.711	ug/m3	105		70 - 130			1
	B163114-BSD1	LCSD	23.057	21.711	ug/m3	106	0.8	70 - 130	30		2
Tetrachloroethene	B163114-BS1	LCS	34.116	33.913	ug/m3	101		70 - 130			1
	B163114-BSD1	LCSD	34.591	33.913	ug/m3	102	1.4	70 - 130	30		2
Toluene	B163114-BS1	LCS	19.332	18.842	ug/m3	103		70 - 130			1
	B163114-BSD1	LCSD	19.445	18.842	ug/m3	103	0.6	70 - 130	30		2
Trichloroethene	B163114-BS1	LCS	27.191	26.869	ug/m3	101		70 - 130			1
	B163114-BSD1	LCSD	27.245	26.869	ug/m3	101	0.2	70 - 130	30		2
Trichlorofluoromethane	B163114-BS1	LCS	27.024	28.092	ug/m3	96.2		70 - 130			1
	B163114-BSD1	LCSD	26.856	28.092	ug/m3	95.6	0.6	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B163114-BS1	LCS	37.475	38.318	ug/m3	97.8		70 - 130			1
	B163114-BSD1	LCSD	37.552	38.318	ug/m3	98.0	0.2	70 - 130	30		2
p- & m-Xylenes	B163114-BS1	LCS	46.548	43.421	ug/m3	107		70 - 130			1
	B163114-BSD1	LCSD	46.765	43.421	ug/m3	108	0.5	70 - 130	30		2
o-Xylene	B163114-BS1	LCS	22.926	21.711	ug/m3	106		70 - 130			1
	B163114-BSD1	LCSD	23.100	21.711	ug/m3	106	0.8	70 - 130	30		2
Total Xylenes	B163114-BS1	LCS	69.474	65.132	ug/m3	107		70 - 130			1
	B163114-BSD1	LCSD	69.865	65.132	ug/m3	107	0.6	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B163114-BS1	LCS	72.4	71.6	ug/m3	101		70 - 130			1
	B163114-BSD1	LCSD	72.9	71.6	ug/m3	102	0.7	70 - 130			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23	22:03	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23	22:43	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/07/2023 10:55
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

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



Date of Report: 04/03/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304945
Invoice ID: B471450, B472098, B472852

Enclosed are the results of analyses for samples received by the laboratory on 3/9/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001408948

Sincerely,

A handwritten signature in black ink, appearing to read "BS", is written over a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", is written over a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY /
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant

2304945

Page: 1 of

2304945

Section C
Invoice Information

Section B
Required Project Information

Section A
Required Client Information

Section A: Required Client Information
 Company: Roux
 Address: 6150 E. Pacific Coast Hwy, Ste. 450
Long Beach, CA 90804
 Email To: amcquane@pacificcoast.com
 Phone: 562-445-8024 Fax: _____
 Registered Due Date (TAT): Standard

Section B: Required Project Information
 Report To: April McGuire
 Copy To: _____
 Purchase Order No.: _____
 Project Name: City Terrace
 Project Number: 2855

Section C: Invoice Information
 Attention: Roux Accounts Payable (rouxap@pacificcoast.com)
 Company Name: Roux
 Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
 PACE Quote Reference: 00132481 & 00132633
 PACE Project Manager/Sales Rep: Brianne Schulte / Dawn Grier
 PACE Profile #: _____

Program:
 UST Spill/Leak Emissions Clean
 Voluntary Clean Up Dry Clean RCRA Other

Location of Sampling by State: CA
 Report Level: II, III, IV, Other

ITEM #	*Section D Required Client Information		COLLECTED		Summa Can Number	Flow Control Number	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDIT
	AIR SAMPLE ID	Sample ID MUST BE UNIQUE	DATE	TIME									
1	AA-13-1	-1	05/07/23	1738	5533	06984	Carson Jones - (Roux)	3/8/23	1748	Alex Perdikis (Roux)	3/8/23	1748	
2	JA-13-1	-2	05/07/23	1747	5518	03987	Alex Perdikis (Roux)	3/8/23	1815	George Pace	3-9-23	1112	
3	JA-13-2	-3	05/07/23	1749	4411	05988							
4													
5													
6													
7													
8													
9													
10													
11													
12													

CHK BY: APL
 SUR OUT:

SAMPLER NAME AND SIGNATURE
 NAME: George Pace
 SIGNATURE: [Signature]
 DATE: 05/08/23

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>	
Submission #: <u>23-04945</u>					
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO/GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Cont. Temp: <u>SUNMA</u> Thermometer ID: _____		Date/Time <u>3-9-23</u>	
		Temperature: (A) <u>ROOM</u> °C / (C) <u>TEMP</u> °C		Analyst Inl <u>Sand 1112</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	-1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/508.3/508.1A										
QT EPA 515.1/515.1A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 801SM										
QT EPA 8370C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz LAB										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUNMA CANISTER	<u>6L</u>	<u>A</u>	<u>A</u>	<u>A</u>						

Comments: _____
 Sample Numbering Completed By: JCD Date/Time: 3-10-23 0940
 A = Actual / C = Corrected

Rev 23 05/20/22

\\HPD\Public\Lab\Forms\CHLAD_Docs\CHLAD\SUBREC\Rev 202



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304945-01	COC Number:	---	Receive Date:	03/09/2023 11:12
	Project Number:	---	Sampling Date:	03/08/2023 12:51
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AA-13-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2304945-02	COC Number:	---	Receive Date:	03/09/2023 11:12
	Project Number:	---	Sampling Date:	03/08/2023 12:51
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-13-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2304945-03	COC Number:	---	Receive Date:	03/09/2023 11:12
	Project Number:	---	Sampling Date:	03/08/2023 12:53
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-13-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304945-01		Client Sample Name: AA-13-1, 3/8/2023 12:51:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	9.0	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	3.9	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.80	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.75	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	V11	1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	0.72	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
Chloromethane	1.3	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.2	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2

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4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.pacelabs.com



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304945-01		Client Sample Name: AA-13-1, 3/8/2023 12:51:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	5.8	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.32	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	0.42	ug/m3	5.0	0.20	EPA-TO-15	ND	J	1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	3.0	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Methyl ethyl ketone	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304945-01		Client Sample Name: AA-13-1, 3/8/2023 12:51:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	1.5	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.5	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	1.0	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.1	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.39	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	1.0	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	1.5	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	98.6	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	103	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304945-01	Client Sample Name: AA-13-1, 3/8/2023 12:51:00PM, Client								
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/20/23 08:01	03/21/23 01:59	BEP	MS-A2	1	B162268	EPA TO-15	
2	EPA-TO-15-SIM	03/10/23 13:05	03/11/23 00:30	BEP	MS-A2	1	B161688	EPA TO-15	

DCN = Data Continuation Number

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Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304945-01	Client Sample Name: AA-13-1, 3/8/2023 12:51:00PM, Client
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	3.4	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	ASTM-D1946	03/22/23 08:47	03/22/23	17:47	RMK	GC-A1	1	B162418	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
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 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304945-02		Client Sample Name: IA-13-1, 3/8/2023 12:51:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	35	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	15	ug/m3	20	0.15	EPA-TO-15-SIM	ND	J,A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	1.5	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	1.4	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	V11	1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	0.44	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	0.56	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.4	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.0	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304945-02		Client Sample Name: IA-13-1, 3/8/2023 12:51:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	0.73	ug/m3	5.0	0.26	EPA-TO-15	ND	J	1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	3.2	ug/m3	5.0	2.0	EPA-TO-15	ND	J	1
1,1-Difluoroethane	2.5	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	400	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	9.7	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	0.83	ug/m3	5.0	0.32	EPA-TO-15	ND	J	1
Ethylbenzene	1.0	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	0.64	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
n-Heptane	0.78	ug/m3	2.0	0.34	EPA-TO-15	ND	J	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	1.2	ug/m3	5.0	0.20	EPA-TO-15	ND	J	1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	16	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.4	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	2.0	ug/m3	5.0	0.26	EPA-TO-15	ND	J	1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
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 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304945-02		Client Sample Name: IA-13-1, 3/8/2023 12:51:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	0.60	ug/m3	5.0	0.24	EPA-TO-15	ND	J	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	4.7	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	4.1	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	0.98	ug/m3	5.0	0.40	EPA-TO-15	ND	J	1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	3.1	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	3.8	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	1.1	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
o-Xylene	1.3	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	4.2	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	5.0	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	99.6	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	97.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	116	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304945-02		Client Sample Name: IA-13-1, 3/8/2023 12:51:00PM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/20/23 08:01	03/21/23 02:45	BEP	MS-A2	1	B162268	EPA TO-15	
2	EPA-TO-15-SIM	03/10/23 13:05	03/11/23 02:34	BEP	MS-A2	20	B161688	EPA TO-15	
3	EPA-TO-15-SIM	03/10/23 13:05	03/11/23 01:14	BEP	MS-A2	1	B161688	EPA TO-15	

DCN = Data Continuation Number

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Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304945-02	Client Sample Name: IA-13-1, 3/8/2023 12:51:00PM, Client
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	3.0	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/22/23 08:47	03/22/23 18:08	RMK	GC-A1	1	B162418	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304945-03		Client Sample Name: IA-13-2, 3/8/2023 12:53:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	14	ug/m3	22	0.17	EPA-TO-15-SIM	ND	J,A01	1
Acetone	30	ug/m3	5.0	0.43	EPA-TO-15	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		2
Benzene	1.3	ug/m3	2.0	0.21	EPA-TO-15	ND	J	2
Benzene	1.4	ug/m3	0.056	0.0036	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		2
Benzyl chloride	ND	ug/m3	0.56	0.0058	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		2
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	V11	2
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		2
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		2
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		2
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		2
Carbon tetrachloride	ND	ug/m3	0.22	0.0071	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
Chlorobenzene	ND	ug/m3	0.11	0.0088	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		2
Chloroform	0.63	ug/m3	5.0	0.54	EPA-TO-15	ND	J	2
Chloroform	0.75	ug/m3	0.056	0.0065	EPA-TO-15-SIM	ND		3
Chloromethane	1.2	ug/m3	2.0	0.21	EPA-TO-15	ND	J	2
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		2
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		2
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		2
1,2-Dibromoethane	ND	ug/m3	0.22	0.016	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.22	0.012	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.22	0.015	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.22	0.018	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	1.9	ug/m3	5.0	0.45	EPA-TO-15	ND	J	2
Dichlorodifluoromethane	2.3	ug/m3	0.056	0.0058	EPA-TO-15-SIM	ND		3

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Roux Associates, Inc -Long Beach
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 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304945-03		Client Sample Name: IA-13-2, 3/8/2023 12:53:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		2
1,1-Dichloroethane	ND	ug/m3	0.056	0.0046	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	0.49	ug/m3	5.0	0.26	EPA-TO-15	ND	J	2
1,2-Dichloroethane	ND	ug/m3	0.11	0.0052	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		2
1,1-Dichloroethene	ND	ug/m3	0.056	0.0087	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.056	0.0049	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	0.056	0.0084	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		2
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	0.056	0.015	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		2
1,1-Difluoroethane	2.4	ug/m3	110	0.060	EPA-TO-15-SIM	ND	J,A01	1
1,1-Difluoroethane	2.9	ug/m3	5.0	2.0	EPA-TO-15	ND	J	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Ethanol	390	ug/m3	2.0	0.42	EPA-TO-15	ND		2
Ethyl acetate	12	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Ethylbenzene	0.74	ug/m3	5.0	0.32	EPA-TO-15	ND	J	2
Ethylbenzene	1.1	ug/m3	0.056	0.019	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	0.49	ug/m3	5.0	0.30	EPA-TO-15	ND	J	2
n-Heptane	0.70	ug/m3	2.0	0.34	EPA-TO-15	ND	J	2
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		2
Hexane	1.1	ug/m3	5.0	0.20	EPA-TO-15	ND	J	2
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		2
Isopropyl alcohol	14	ug/m3	2.0	0.32	EPA-TO-15	ND		2
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		2
Methylene chloride	ND	ug/m3	0.22	0.0086	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.4	ug/m3	2.0	0.19	EPA-TO-15	ND	J	2
Methyl isobutyl ketone	2.1	ug/m3	5.0	0.26	EPA-TO-15	ND	J	2
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		2

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Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304945-03		Client Sample Name: IA-13-2, 3/8/2023 12:53:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	2
Styrene	0.47	ug/m3	5.0	0.24	EPA-TO-15	ND	J	2
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		2
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		2
Tetrachloroethene	ND	ug/m3	0.11	0.012	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
Toluene	4.2	ug/m3	2.2	0.14	EPA-TO-15-SIM	ND	A01	1
Toluene	4.3	ug/m3	2.0	0.27	EPA-TO-15	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		2
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		2
1,1,1-Trichloroethane	ND	ug/m3	0.11	0.0062	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.11	0.0062	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		2
Trichloroethene	ND	ug/m3	0.11	0.011	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.2	ug/m3	5.0	0.47	EPA-TO-15	ND	J	2
Trichlorofluoromethane	1.4	ug/m3	0.056	0.0064	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.11	0.0087	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	0.54	ug/m3	5.0	0.40	EPA-TO-15	ND	J	2
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
Vinyl acetate	2.0	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		2
Vinyl chloride	ND	ug/m3	0.022	0.0052	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	2.6	ug/m3	5.0	0.61	EPA-TO-15	ND	J	2
p- & m-Xylenes	3.6	ug/m3	0.056	0.0092	EPA-TO-15-SIM	ND		3
o-Xylene	0.91	ug/m3	5.0	0.30	EPA-TO-15	ND	J	2
o-Xylene	1.2	ug/m3	0.056	0.0049	EPA-TO-15-SIM	ND		3
Total Xylenes	3.5	ug/m3	10	0.91	EPA-TO-15	ND	J	2
Total Xylenes	4.8	ug/m3	0.11	0.015	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	95.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	100	%	70 - 130 (LCL - UCL)		EPA-TO-15			2
4-Bromofluorobenzene (Surrogate)	114	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Reported: 04/03/2023 13:19
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304945-03		Client Sample Name: IA-13-2, 3/8/2023 12:53:00PM, Client								
DCN	Method	Prep Date	Run Date/Time		Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15-SIM	03/10/23 13:05	03/11/23	03:12	BEP	MS-A2	22.400	B161688	EPA TO-15	
2	EPA-TO-15	03/20/23 08:01	03/21/23	03:31	BEP	MS-A2	1	B162268	EPA TO-15	
3	EPA-TO-15-SIM	03/10/23 13:05	03/11/23	01:57	BEP	MS-A2	1.120	B161688	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304945-03	Client Sample Name: IA-13-2, 3/8/2023 12:53:00PM, Client
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	6.3	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/22/23 08:47	03/22/23 18:28	RMK	GC-A1	1	B162418	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161688							
Acetone	B161688-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B161688-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B161688-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B161688-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B161688-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B161688-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B161688-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B161688-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B161688-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B161688-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B161688-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B161688-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B161688-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B161688-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B161688-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B161688-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B161688-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B161688-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B161688-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B161688-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B161688-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B161688-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B161688-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B161688-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B161688-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B161688-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161688-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B161688-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B161688-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B161688-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B161688-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B161688-BLK1	82.4	%	50 - 150 (LCL - UCL)			1
QC Batch ID: B162268							

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Reported: 04/03/2023 13:19
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 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162268							
Acetone	B162268-BLK1	ND	ug/m3	5.0	0.43		2
Acrylonitrile	B162268-BLK1	ND	ug/m3	2.0	0.27		2
Allyl chloride	B162268-BLK1	ND	ug/m3	2.0	0.28		2
Benzene	B162268-BLK1	ND	ug/m3	2.0	0.21		2
Benzyl chloride	B162268-BLK1	ND	ug/m3	10	0.26		2
Bromodichloromethane	B162268-BLK1	ND	ug/m3	5.0	0.45		2
Bromoform	B162268-BLK1	ND	ug/m3	10	0.86		2
Bromomethane	B162268-BLK1	ND	ug/m3	2.0	0.47		2
1,3-Butadiene	B162268-BLK1	ND	ug/m3	2.0	0.22		2
Carbon disulfide	B162268-BLK1	ND	ug/m3	2.0	0.19		2
Carbon tetrachloride	B162268-BLK1	ND	ug/m3	5.0	0.45		2
Chlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.40		2
Chloroethane	B162268-BLK1	ND	ug/m3	2.0	0.53		2
Chloroform	B162268-BLK1	ND	ug/m3	5.0	0.54		2
Chloromethane	B162268-BLK1	ND	ug/m3	2.0	0.21		2
Cyclohexane	B162268-BLK1	ND	ug/m3	2.0	0.38		2
Dibromochloromethane	B162268-BLK1	ND	ug/m3	5.0	0.43		2
1,2-Dibromoethane	B162268-BLK1	ND	ug/m3	5.0	0.58		2
1,2-Dichlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.50		2
1,3-Dichlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.31		2
1,4-Dichlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.50		2
Dichlorodifluoromethane	B162268-BLK1	ND	ug/m3	5.0	0.45		2
1,1-Dichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.23		2
1,2-Dichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.26		2
1,1-Dichloroethene	B162268-BLK1	ND	ug/m3	5.0	0.31		2
cis-1,2-Dichloroethene	B162268-BLK1	ND	ug/m3	2.0	0.32		2
trans-1,2-Dichloroethene	B162268-BLK1	ND	ug/m3	2.0	0.27		2
1,2-Dichloropropane	B162268-BLK1	ND	ug/m3	5.0	0.32		2
cis-1,3-Dichloropropene	B162268-BLK1	ND	ug/m3	5.0	0.30		2
trans-1,3-Dichloropropene	B162268-BLK1	ND	ug/m3	5.0	0.40		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162268-BLK1	ND	ug/m3	5.0	0.91		2
1,1-Difluoroethane	B162268-BLK1	ND	ug/m3	5.0	2.0		2
1,4-Dioxane	B162268-BLK1	ND	ug/m3	2.0	0.33		2
Ethanol	B162268-BLK1	ND	ug/m3	2.0	0.42		2

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 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162268							
Ethyl acetate	B162268-BLK1	ND	ug/m3	2.0	0.33		2
Ethylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.32		2
1-Ethyl-4-methylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.30		2
n-Heptane	B162268-BLK1	ND	ug/m3	2.0	0.34		2
Hexachlorobutadiene	B162268-BLK1	ND	ug/m3	10	1.5		2
Hexane	B162268-BLK1	ND	ug/m3	5.0	0.20		2
2-Hexanone	B162268-BLK1	ND	ug/m3	5.0	0.29		2
Isopropyl alcohol	B162268-BLK1	ND	ug/m3	2.0	0.32		2
Methylene chloride	B162268-BLK1	ND	ug/m3	10	0.40		2
Methyl ethyl ketone	B162268-BLK1	ND	ug/m3	2.0	0.19		2
Methyl isobutyl ketone	B162268-BLK1	ND	ug/m3	5.0	0.26		2
Methyl t-butyl ether	B162268-BLK1	ND	ug/m3	2.0	0.28		2
Propylene	B162268-BLK1	ND	ug/m3	2.0	0.25	C01	2
Styrene	B162268-BLK1	ND	ug/m3	5.0	0.24		2
1,1,2,2-Tetrachloroethane	B162268-BLK1	ND	ug/m3	5.0	0.47		2
Tetrachloroethene	B162268-BLK1	ND	ug/m3	2.0	0.50		2
Tetrahydrofuran	B162268-BLK1	ND	ug/m3	2.0	0.27		2
Toluene	B162268-BLK1	ND	ug/m3	2.0	0.27		2
1,2,4-Trichlorobenzene	B162268-BLK1	ND	ug/m3	10	0.82		2
1,1,1-Trichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.39		2
1,1,2-Trichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.61		2
Trichloroethene	B162268-BLK1	ND	ug/m3	2.0	0.54		2
Trichlorofluoromethane	B162268-BLK1	ND	ug/m3	5.0	0.47		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B162268-BLK1	ND	ug/m3	5.0	0.55		2
1,2,4-Trimethylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.40		2
1,3,5-Trimethylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.40		2
Vinyl acetate	B162268-BLK1	ND	ug/m3	2.0	0.33		2
Vinyl chloride	B162268-BLK1	ND	ug/m3	2.0	0.39		2
p- & m-Xylenes	B162268-BLK1	ND	ug/m3	5.0	0.61		2
o-Xylene	B162268-BLK1	ND	ug/m3	5.0	0.30		2
Total Xylenes	B162268-BLK1	ND	ug/m3	10	0.91		2
4-Bromofluorobenzene (Surrogate)	B162268-BLK1	97.1	%	70 - 130 (LCL - UCL)			2

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:19
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161688-BLK1	PB	EPA-TO-15-SIM	03/10/23	03/10/23 19:12	BEP	MS-A2	1
2	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161688											
Benzene	B161688-BS1	LCS	0.26261	0.31948	ug/m3	82.2		70 - 130			1
	B161688-BSD1	LCSD	0.26219	0.31948	ug/m3	82.1	0.2	70 - 130	30		2
Benzyl chloride	B161688-BS1	LCS	0.37985	0.51772	ug/m3	73.4		70 - 130		J	1
	B161688-BSD1	LCSD	0.40237	0.51772	ug/m3	77.7	5.8	70 - 130	30	J	2
Carbon tetrachloride	B161688-BS1	LCS	0.58522	0.62913	ug/m3	93.0		70 - 130			1
	B161688-BSD1	LCSD	0.58314	0.62913	ug/m3	92.7	0.4	70 - 130	30		2
Chlorobenzene	B161688-BS1	LCS	0.40617	0.46036	ug/m3	88.2		70 - 130			1
	B161688-BSD1	LCSD	0.41147	0.46036	ug/m3	89.4	1.3	70 - 130	30		2
Chloroform	B161688-BS1	LCS	0.44309	0.48825	ug/m3	90.8		70 - 130			1
	B161688-BSD1	LCSD	0.44709	0.48825	ug/m3	91.6	0.9	70 - 130	30		2
1,2-Dibromoethane	B161688-BS1	LCS	0.69758	0.76835	ug/m3	90.8		70 - 130			1
	B161688-BSD1	LCSD	0.70181	0.76835	ug/m3	91.3	0.6	70 - 130	30		2
1,2-Dichlorobenzene	B161688-BS1	LCS	0.53913	0.60124	ug/m3	89.7		70 - 130			1
	B161688-BSD1	LCSD	0.55488	0.60124	ug/m3	92.3	2.9	70 - 130	30		2
1,3-Dichlorobenzene	B161688-BS1	LCS	0.54009	0.60124	ug/m3	89.8		70 - 130			1
	B161688-BSD1	LCSD	0.56246	0.60124	ug/m3	93.5	4.1	70 - 130	30		2
1,4-Dichlorobenzene	B161688-BS1	LCS	0.59390	0.60124	ug/m3	98.8		70 - 130			1
	B161688-BSD1	LCSD	0.56696	0.60124	ug/m3	94.3	4.6	70 - 130	30		2
1,1-Dichloroethane	B161688-BS1	LCS	0.35508	0.40474	ug/m3	87.7		70 - 130			1
	B161688-BSD1	LCSD	0.35156	0.40474	ug/m3	86.9	1.0	70 - 130	30		2
1,2-Dichloroethane	B161688-BS1	LCS	0.36406	0.40474	ug/m3	89.9		70 - 130			1
	B161688-BSD1	LCSD	0.36597	0.40474	ug/m3	90.4	0.5	70 - 130	30		2
1,1-Dichloroethene	B161688-BS1	LCS	0.33095	0.39649	ug/m3	83.5		70 - 130			1
	B161688-BSD1	LCSD	0.33230	0.39649	ug/m3	83.8	0.4	70 - 130	30		2
cis-1,2-Dichloroethene	B161688-BS1	LCS	0.32905	0.39649	ug/m3	83.0		70 - 130			1
	B161688-BSD1	LCSD	0.33171	0.39649	ug/m3	83.7	0.8	70 - 130	30		2
Methylene chloride	B161688-BS1	LCS	0.32879	0.34737	ug/m3	94.7		70 - 130			1
	B161688-BSD1	LCSD	0.32473	0.34737	ug/m3	93.5	1.2	70 - 130	30		2
Tetrachloroethene	B161688-BS1	LCS	0.60622	0.67825	ug/m3	89.4		70 - 130			1
	B161688-BSD1	LCSD	0.61029	0.67825	ug/m3	90.0	0.7	70 - 130	30		2
Toluene	B161688-BS1	LCS	0.31165	0.37684	ug/m3	82.7		70 - 130			1
	B161688-BSD1	LCSD	0.31026	0.37684	ug/m3	82.3	0.4	70 - 130	30		2
1,1,1-Trichloroethane	B161688-BS1	LCS	0.50061	0.54562	ug/m3	91.8		70 - 130			1
	B161688-BSD1	LCSD	0.49979	0.54562	ug/m3	91.6	0.2	70 - 130	30		2
1,1,2-Trichloroethane	B161688-BS1	LCS	0.49242	0.54562	ug/m3	90.3		70 - 130			1
	B161688-BSD1	LCSD	0.50104	0.54562	ug/m3	91.8	1.7	70 - 130	30		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161688											
Trichloroethene	B161688-BS1	LCS	0.46811	0.53737	ug/m3	87.1		70 - 130			1
	B161688-BSD1	LCSD	0.47622	0.53737	ug/m3	88.6	1.7	70 - 130	30		2
Vinyl chloride	B161688-BS1	LCS	0.26086	0.25562	ug/m3	102		70 - 130			1
	B161688-BSD1	LCSD	0.24767	0.25562	ug/m3	96.9	5.2	70 - 130	30		2
p- & m-Xylenes	B161688-BS1	LCS	0.74203	0.86843	ug/m3	85.4		70 - 130			1
	B161688-BSD1	LCSD	0.73890	0.86843	ug/m3	85.1	0.4	70 - 130	30		2
o-Xylene	B161688-BS1	LCS	0.36126	0.43421	ug/m3	83.2		70 - 130			1
	B161688-BSD1	LCSD	0.36309	0.43421	ug/m3	83.6	0.5	70 - 130	30		2
Total Xylenes	B161688-BS1	LCS	1.1033	1.3026	ug/m3	84.7		70 - 130			1
	B161688-BSD1	LCSD	1.1020	1.3026	ug/m3	84.6	0.1	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161688-BS1	LCS	3.61	3.58	ug/m3	101		50 - 150			1
	B161688-BSD1	LCSD	3.65	3.58	ug/m3	102	1.1	50 - 150			2
QC Batch ID: B162268											
Benzene	B162268-BS1	LCS	15.590	15.974	ug/m3	97.6		70 - 130			3
	B162268-BSD1	LCSD	15.718	15.974	ug/m3	98.4	0.8	70 - 130	30		4
Chloroform	B162268-BS1	LCS	23.436	24.413	ug/m3	96.0		70 - 130			3
	B162268-BSD1	LCSD	23.631	24.413	ug/m3	96.8	0.8	70 - 130	30		4
Ethylbenzene	B162268-BS1	LCS	20.712	21.711	ug/m3	95.4		70 - 130			3
	B162268-BSD1	LCSD	21.146	21.711	ug/m3	97.4	2.1	70 - 130	30		4
Tetrachloroethene	B162268-BS1	LCS	33.641	33.913	ug/m3	99.2		70 - 130			3
	B162268-BSD1	LCSD	34.184	33.913	ug/m3	101	1.6	70 - 130	30		4
Toluene	B162268-BS1	LCS	18.805	18.842	ug/m3	99.8		70 - 130			3
	B162268-BSD1	LCSD	19.219	18.842	ug/m3	102	2.2	70 - 130	30		4
Trichloroethene	B162268-BS1	LCS	26.815	26.869	ug/m3	99.8		70 - 130			3
	B162268-BSD1	LCSD	27.406	26.869	ug/m3	102	2.2	70 - 130	30		4
Trichlorofluoromethane	B162268-BS1	LCS	27.137	28.092	ug/m3	96.6		70 - 130			3
	B162268-BSD1	LCSD	27.249	28.092	ug/m3	97.0	0.4	70 - 130	30		4
1,1,2-Trichloro-1,2,2-trifluoroethane	B162268-BS1	LCS	37.015	38.318	ug/m3	96.6		70 - 130			3
	B162268-BSD1	LCSD	37.322	38.318	ug/m3	97.4	0.8	70 - 130	30		4
p- & m-Xylenes	B162268-BS1	LCS	43.378	43.421	ug/m3	99.9		70 - 130			3
	B162268-BSD1	LCSD	44.680	43.421	ug/m3	103	3.0	70 - 130	30		4
o-Xylene	B162268-BS1	LCS	21.190	21.711	ug/m3	97.6		70 - 130			3
	B162268-BSD1	LCSD	22.058	21.711	ug/m3	102	4.0	70 - 130	30		4
Total Xylenes	B162268-BS1	LCS	64.567	65.132	ug/m3	99.1		70 - 130			3
	B162268-BSD1	LCSD	66.738	65.132	ug/m3	102	3.3	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B162268-BS1	LCS	72.7	71.6	ug/m3	102		70 - 130			3
	B162268-BSD1	LCSD	73.9	71.6	ug/m3	103	1.7	70 - 130			4

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Reported: 04/03/2023 13:19
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161688-BS1	LCS	EPA-TO-15-SIM	03/10/23	03/10/23 17:58	BEP	MS-A2	1
2	B161688-BSD1	LCSD	EPA-TO-15-SIM	03/10/23	03/10/23 18:37	BEP	MS-A2	1
3	B162268-BS1	LCS	EPA-TO-15	03/20/23	03/20/23 13:31	BEP	MS-A2	1
4	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23 14:14	BEP	MS-A2	1

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 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B162418

Methane (CH4)	B162418-BLK1	ND	ppmv	2.0	1.8		1
---------------	--------------	----	------	-----	-----	--	---

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162418-BLK1	PB	ASTM-D1946	03/22/23	03/22/23 11:55	RMK	GC-A1	1

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Reported: 04/03/2023 13:19
 Project: City Terrace
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Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162418											
Methane (CH4)	B162418-BS1	LCS	18710	18000	ppmv	104		70 - 130			1
	B162418-BSD1	LCSD	18732	18000	ppmv	104	0.1	70 - 130	30		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162418-BS1	LCS	ASTM-D1946	03/22/23	03/22/23	11:14	RMK	GC-A1	1
2	B162418-BSD1	LCSD	ASTM-D1946	03/22/23	03/22/23	11:34	RMK	GC-A1	1

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Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- C01 The calibration curve did not contain the minimum number of standards.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Date of Report: 03/15/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304950
Invoice ID: B471497

Enclosed are the results of analyses for samples received by the laboratory on 3/9/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "BS", is positioned above a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", is positioned above a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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2304950

AIR: CHAIN-OF-CUSTODY / Analytical Rec
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed

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Section A
Required Client Information:

Company: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450
Long Beach, CA 90804
Email To: amisque@rouxinc.com
Phone: 562-446-8624 Fax:
Requested Due Date/TAT: Standard

Section B
Required Project Information:

Report To: April McGuire
Copy To:
Purchase Order No:
Project Name: City Terrace
Project Number: 2085

Section C
Invoice Information:

Attention: Roux Accounts Payable (rouxapp@rouxinc.com)
Company Name: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
Pace Quote Reference: 00132481 & 00132933
Pace Project Manager/Sales Rep: Brianna Schutte / Dawn Connor
Pace Profile #:

Section D
Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

SV-13-1
SV-13-1-D
SV-13-2

COLLECTED

DATE	TIME	DATE	TIME
3/8/13	1725	3/8/13	1732
3/8/13	1725	3/8/13	1732
3/8/13	1730	3/8/13	1736

Media Codes: 14C
↓

ACCEPTED BY / AFFILIATION

DAVID ZUMPLEN 3-8-23-174-DZ
Alex Perditie (Roux) 3/8/13 1748
Mungo 3-9-13 1112

RELINQUISHED BY / AFFILIATION

DAVID ZUMPLEN 3-8-23-174-DZ
Alex Perditie (Roux) 3/8/13 1815

RECEIVED BY / AFFILIATION

Alex Perditie (Roux) 3/8/13 1748

DATE

3/8/13 1748

TIME

1748

Flow Control Number

5184 14 14
2851 13 75
5171 13 87

Summa Can Number

5184 14 14
2851 13 75
5171 13 87

Canister Pressure (Initial Field - psig)

27 27 25

Canister Pressure (Final Field - psig)

5 5 5

Method:

PM10
AC-Fixed Gas (%)
TO-3
TO-3M (Metals)
TO-13 (PM)
TO-14
TO-15
TO-15 Short Path
TO-15 SM

Location of Sampling by State

CA

Program

USF Superfund
Emissions
Clean Air Act
Voluntary Clean Up
Dry Clean
RCRA
Other

Report Level

I, II, III, IV, Other

Place Lab ID

CHK BY: [Signature]
DISTRIBUTION
SUB OUT

Temp in °C

Received on

Sealed Cooler

Samples Intact

SAMPLER NAME AND SIGNATURE

[Signature]

DATE SIGNATURE MADE (DD,YY)

SIGNATURE OF SAMPLER

Comments:

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

FC046Rev 01, 03Feb2010

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>						
Submission #: <u>23-04950</u>										
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S					
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____										
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____										
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Sunima</u> Thermometer ID: _____ Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Date/Time <u>3-9-23</u> Analyst Init <u>SP417/112</u>						
SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁴										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40ml VOA VIAL - 514										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 519.2										
QT EPA 891501										
QT EPA 8370C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUNIMA CANISTER	1.4L	A	A	A						

Comments: _____
 Sample Numbering Completed By: JLB Date/Time: 3-10-23 0950
 A = Actual / C = Corrected

Rev 23 05/20/22
 [S:\WP\Doc\Files\Padre\FAD_DOC\FORMS\5154\32oz Cov 25]



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/15/2023 17:08
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304950-01	COC Number:	---	Receive Date:	03/09/2023 11:12
	Project Number:	---	Sampling Date:	03/08/2023 17:32
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-13-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			
2304950-02	COC Number:	---	Receive Date:	03/09/2023 11:12
	Project Number:	---	Sampling Date:	03/08/2023 17:32
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-13-1-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			
2304950-03	COC Number:	---	Receive Date:	03/09/2023 11:12
	Project Number:	---	Sampling Date:	03/08/2023 17:36
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-13-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/15/2023 17:08
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304950-01		Client Sample Name: SV-13-1, 3/8/2023 5:32:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	39	ug/m3	7.8	0.68	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.1	0.44	EPA-TO-15	ND	A01	1
Benzene	2.8	ug/m3	3.1	0.33	EPA-TO-15	ND	J,A01	1
Benzyl chloride	ND	ug/m3	16	0.41	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	7.8	0.71	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.1	0.74	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.1	0.35	EPA-TO-15	ND	A01	1
Carbon disulfide	5.2	ug/m3	3.1	0.30	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	7.8	0.71	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	7.8	0.63	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.1	0.83	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	7.8	0.85	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	3.1	0.33	EPA-TO-15	ND	A01	1
Cyclohexane	1.4	ug/m3	3.1	0.60	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	7.8	0.68	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	7.8	0.91	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	7.8	0.78	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	7.8	0.49	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	7.8	0.78	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	3.4	ug/m3	7.8	0.71	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	7.8	0.36	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	7.8	0.41	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	7.8	0.49	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.1	0.50	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	7.8	0.50	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	7.8	0.47	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	7.8	0.63	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	7.8	1.4	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	7.8	3.1	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.1	0.52	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/15/2023 17:08
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304950-01		Client Sample Name: SV-13-1, 3/8/2023 5:32:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	17	ug/m3	3.1	0.66	EPA-TO-15	ND	A01	1
Ethyl acetate	1.7	ug/m3	3.1	0.52	EPA-TO-15	ND	J,A01	1
Ethylbenzene	1.6	ug/m3	7.8	0.50	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	7.8	0.47	EPA-TO-15	ND	A01	1
n-Heptane	3.5	ug/m3	3.1	0.53	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	1
Hexane	3.7	ug/m3	7.8	0.31	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	7.8	0.46	EPA-TO-15	ND	A01	1
Isopropyl alcohol	29	ug/m3	3.1	0.50	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.63	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	3.7	ug/m3	3.1	0.30	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	1.1	ug/m3	7.8	0.41	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.1	0.44	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.1	0.39	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	7.8	0.38	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	7.8	0.74	EPA-TO-15	ND	A01	1
Tetrachloroethene	1.4	ug/m3	3.1	0.78	EPA-TO-15	ND	J,A01	1
Tetrahydrofuran	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
Toluene	4.0	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	7.8	0.61	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	7.8	0.96	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.1	0.85	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.7	ug/m3	7.8	0.74	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	7.8	0.86	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.2	ug/m3	7.8	0.63	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	7.8	0.63	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.1	0.52	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.1	0.61	EPA-TO-15	ND	A01	1
p- & m-Xylenes	5.9	ug/m3	7.8	0.96	EPA-TO-15	ND	J,A01	1
o-Xylene	2.0	ug/m3	7.8	0.47	EPA-TO-15	ND	J,A01	1
Total Xylenes	7.9	ug/m3	16	1.4	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	96.8	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/15/2023 17:08
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304950-01	Client Sample Name: SV-13-1, 3/8/2023 5:32:00PM, Client
----------------------------------	--

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	03/13/23 13:46	03/14/23 10:32	BEP	MS-A1	1.570	B161764 EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/15/2023 17:08
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304950-02		Client Sample Name: SV-13-1-D, 3/8/2023 5:32:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	44	ug/m3	7.8	0.68	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.1	0.44	EPA-TO-15	ND	A01	1
Benzene	2.7	ug/m3	3.1	0.33	EPA-TO-15	ND	J,A01	1
Benzyl chloride	ND	ug/m3	16	0.41	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	7.8	0.71	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.1	0.74	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.1	0.35	EPA-TO-15	ND	A01	1
Carbon disulfide	5.4	ug/m3	3.1	0.30	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	7.8	0.71	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	7.8	0.63	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.1	0.83	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	7.8	0.85	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	3.1	0.33	EPA-TO-15	ND	A01	1
Cyclohexane	1.1	ug/m3	3.1	0.60	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	7.8	0.68	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	7.8	0.91	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	7.8	0.78	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	7.8	0.49	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	7.8	0.78	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	3.3	ug/m3	7.8	0.71	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	7.8	0.36	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	7.8	0.41	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	7.8	0.49	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.1	0.50	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	7.8	0.50	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	7.8	0.47	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	7.8	0.63	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	7.8	1.4	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	7.8	3.1	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.1	0.52	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/15/2023 17:08
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304950-02		Client Sample Name: SV-13-1-D, 3/8/2023 5:32:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	17	ug/m3	3.1	0.66	EPA-TO-15	ND	A01	1
Ethyl acetate	2.4	ug/m3	3.1	0.52	EPA-TO-15	ND	J,A01	1
Ethylbenzene	2.2	ug/m3	7.8	0.50	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	0.85	ug/m3	7.8	0.47	EPA-TO-15	ND	J,A01	1
n-Heptane	3.1	ug/m3	3.1	0.53	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	1
Hexane	3.4	ug/m3	7.8	0.31	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	7.8	0.46	EPA-TO-15	ND	A01	1
Isopropyl alcohol	42	ug/m3	3.1	0.50	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.63	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	3.8	ug/m3	3.1	0.30	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	1.0	ug/m3	7.8	0.41	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.1	0.44	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.1	0.39	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	7.8	0.38	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	7.8	0.74	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.1	0.78	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
Toluene	3.8	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	7.8	0.61	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	7.8	0.96	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.1	0.85	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.9	ug/m3	7.8	0.74	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	7.8	0.86	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.7	ug/m3	7.8	0.63	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	7.8	0.63	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.1	0.52	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.1	0.61	EPA-TO-15	ND	A01	1
p- & m-Xylenes	7.0	ug/m3	7.8	0.96	EPA-TO-15	ND	J,A01	1
o-Xylene	2.1	ug/m3	7.8	0.47	EPA-TO-15	ND	J,A01	1
Total Xylenes	9.1	ug/m3	16	1.4	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	94.3	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.pacelabs.com



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/15/2023 17:08
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304950-02	Client Sample Name: SV-13-1-D, 3/8/2023 5:32:00PM, Client
----------------------------------	--

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	03/13/23 13:46	03/14/23 11:10	BEP	MS-A1	1.570	B161764 EPA TO-15

DCN = Data Continuation Number

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Reported: 03/15/2023 17:08
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304950-03 **Client Sample Name:** SV-13-2, 3/8/2023 5:36:00PM, Client

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	67	ug/m3	8.2	0.71	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.3	0.46	EPA-TO-15	ND	A01	1
Benzene	5.6	ug/m3	3.3	0.34	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.43	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.2	0.74	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.3	0.77	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.3	0.36	EPA-TO-15	ND	A01	1
Carbon disulfide	17	ug/m3	3.3	0.31	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.2	0.74	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.2	0.66	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.3	0.87	EPA-TO-15	ND	A01	1
Chloroform	0.96	ug/m3	8.2	0.89	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.3	0.34	EPA-TO-15	ND	A01	1
Cyclohexane	1.3	ug/m3	3.3	0.62	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	8.2	0.71	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.2	0.95	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.2	0.82	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.2	0.51	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.2	0.82	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.9	ug/m3	8.2	0.74	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.2	0.38	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.2	0.43	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.2	0.51	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.3	0.52	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.2	0.52	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.2	0.49	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.2	0.66	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.2	1.5	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.2	3.3	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/15/2023 17:08
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304950-03		Client Sample Name: SV-13-2, 3/8/2023 5:36:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	15	ug/m3	3.3	0.69	EPA-TO-15	ND	A01	1
Ethyl acetate	2.4	ug/m3	3.3	0.54	EPA-TO-15	ND	J,A01	1
Ethylbenzene	1.6	ug/m3	8.2	0.52	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	8.2	0.49	EPA-TO-15	ND	A01	1
n-Heptane	5.9	ug/m3	3.3	0.56	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.5	EPA-TO-15	ND	A01	1
Hexane	3.9	ug/m3	8.2	0.33	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	8.2	0.48	EPA-TO-15	ND	A01	1
Isopropyl alcohol	34	ug/m3	3.3	0.52	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.66	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	6.4	ug/m3	3.3	0.31	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	0.94	ug/m3	8.2	0.43	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.3	0.46	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.3	0.41	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	8.2	0.39	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.2	0.77	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.3	0.82	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	1
Toluene	5.9	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.2	0.64	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.2	1.0	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.3	0.89	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.6	ug/m3	8.2	0.77	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.2	0.90	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	0.97	ug/m3	8.2	0.66	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.2	0.66	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.3	0.64	EPA-TO-15	ND	A01	1
p- & m-Xylenes	4.9	ug/m3	8.2	1.0	EPA-TO-15	ND	J,A01	1
o-Xylene	1.6	ug/m3	8.2	0.49	EPA-TO-15	ND	J,A01	1
Total Xylenes	6.5	ug/m3	16	1.5	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	93.4	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/15/2023 17:08
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304950-03	Client Sample Name: SV-13-2, 3/8/2023 5:36:00PM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-TO-15	03/13/23 13:46	03/14/23 11:47	BEP	MS-A1	1.640	B161764	EPA TO-15

DCN = Data Continuation Number

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Reported: 03/15/2023 17:08
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161764							
Acetone	B161764-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B161764-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B161764-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B161764-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B161764-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B161764-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B161764-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B161764-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B161764-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B161764-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B161764-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B161764-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B161764-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B161764-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B161764-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B161764-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B161764-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B161764-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B161764-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B161764-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B161764-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B161764-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B161764-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B161764-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B161764-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B161764-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B161764-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B161764-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B161764-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B161764-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B161764-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B161764-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B161764-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B161764-BLK1	ND	ug/m3	2.0	0.42		1

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 Long Beach, CA 90804

Reported: 03/15/2023 17:08
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161764							
Ethyl acetate	B161764-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B161764-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B161764-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B161764-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B161764-BLK1	ND	ug/m3	10	1.5		1
Hexane	B161764-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B161764-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B161764-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B161764-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B161764-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B161764-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B161764-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B161764-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B161764-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B161764-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B161764-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B161764-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B161764-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B161764-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B161764-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B161764-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B161764-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B161764-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161764-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B161764-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B161764-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B161764-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B161764-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B161764-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B161764-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B161764-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B161764-BLK1	93.2	%	70 - 130 (LCL - UCL)			1

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Reported: 03/15/2023 17:08
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161764-BLK1	PB	EPA-TO-15	03/13/23	03/13/23 17:09	BEP	MS-A1	1

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Reported: 03/15/2023 17:08
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B161764											
Benzene	B161764-BS1	LCS	14.664	15.974	ug/m3	91.8		70 - 130			1
	B161764-BSD1	LCSD	14.760	15.974	ug/m3	92.4	0.7	70 - 130	30		2
Chloroform	B161764-BS1	LCS	22.216	24.413	ug/m3	91.0		70 - 130			1
	B161764-BSD1	LCSD	22.508	24.413	ug/m3	92.2	1.3	70 - 130	30		2
Ethylbenzene	B161764-BS1	LCS	20.191	21.711	ug/m3	93.0		70 - 130			1
	B161764-BSD1	LCSD	20.625	21.711	ug/m3	95.0	2.1	70 - 130	30		2
Tetrachloroethene	B161764-BS1	LCS	30.250	33.913	ug/m3	89.2		70 - 130			1
	B161764-BSD1	LCSD	30.793	33.913	ug/m3	90.8	1.8	70 - 130	30		2
Toluene	B161764-BS1	LCS	17.938	18.842	ug/m3	95.2		70 - 130			1
	B161764-BSD1	LCSD	18.126	18.842	ug/m3	96.2	1.0	70 - 130	30		2
Trichloroethene	B161764-BS1	LCS	23.913	26.869	ug/m3	89.0		70 - 130			1
	B161764-BSD1	LCSD	24.074	26.869	ug/m3	89.6	0.7	70 - 130	30		2
Trichlorofluoromethane	B161764-BS1	LCS	25.788	28.092	ug/m3	91.8		70 - 130			1
	B161764-BSD1	LCSD	25.957	28.092	ug/m3	92.4	0.7	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B161764-BS1	LCS	34.103	38.318	ug/m3	89.0		70 - 130			1
	B161764-BSD1	LCSD	34.716	38.318	ug/m3	90.6	1.8	70 - 130	30		2
p- & m-Xylenes	B161764-BS1	LCS	41.207	43.421	ug/m3	94.9		70 - 130			1
	B161764-BSD1	LCSD	41.250	43.421	ug/m3	95.0	0.1	70 - 130	30		2
o-Xylene	B161764-BS1	LCS	20.625	21.711	ug/m3	95.0		70 - 130			1
	B161764-BSD1	LCSD	20.712	21.711	ug/m3	95.4	0.4	70 - 130	30		2
Total Xylenes	B161764-BS1	LCS	61.832	65.132	ug/m3	94.9		70 - 130			1
	B161764-BSD1	LCSD	61.962	65.132	ug/m3	95.1	0.2	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161764-BS1	LCS	72.4	71.6	ug/m3	101		70 - 130			1
	B161764-BSD1	LCSD	72.1	71.6	ug/m3	101	0.4	70 - 130			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B161764-BS1	LCS	EPA-TO-15	03/13/23	03/13/23	16:08	BEP	MS-A1	1
2	B161764-BSD1	LCSD	EPA-TO-15	03/13/23	03/13/23	16:40	BEP	MS-A1	1

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Reported: 03/15/2023 17:08
Project: City Terrace
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Project Manager: April McGuire

Notes And Definitions

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



Date of Report: 04/03/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304992
Invoice ID: B472113, B472855

Enclosed are the results of analyses for samples received by the laboratory on 3/10/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001408996

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / ANALYSIS

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

2304992

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company: Roux	Report To: Appt Measure	Attention: Roux Accounts Payable (rouxap@rouxinc.com)	Company Name: Roux	Invoice Number: 23-04992	Page: 1 of 1
Address: 5150 E. Pacific Coast Hwy. Ste. 460 Long Beach, CA 90804	Copy To:	Company Address: 5150 E. Pacific Coast Hwy. Ste. 450, Long Beach, CA 90804	Purchase Order No.:		
Email To: amcguane@rouxinc.com		Pace Quote Reference: 00132481 & 00132533	Project Name: City Terrace		
Phone: 562-449-8824 Fax:	Project Number: 2855	Pace Project Manager/Sales Rep: Brianna Schulte / Dawn Gisor	Pace Profile #:		

#	ITEM	COLLECTED		MEDIA CODE	P/Q Reading (Client only)	Summa Can Number	Flow Control Number	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDIT
		DATE	TIME					DATE	TIME					
1	AA-14-1	3/8/23	1704	3A23	1520-30-3	23805	3805	Cameron Jones (Roux)	3/8/23	1636	Injection Cameron Jones	3/25	1638	Temp in °C
2	AA-14-1		1728	3A23	1520-30-1	423	3890	Sonja Pro-Cambria	3/16/23	1659	Dismissing Pace	3-16-23	1613	Received on
3	IA-14-2		1727	3A23	1520-30-7	434	10012							Sealed Cooler

Comments:

CHK BY NLS

DISTRIBUTION

SUB OUT

SAMPLER NAME AND SIGNATURE
 CAMERON JONES
 DATE: 3/8/23

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page	Of
Submission #: <u>23-04992</u>					
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Summa</u> Thermometer ID: _____ Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Date/Time <u>3-10-23</u> Analyst Init <u>SMH/1043</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 3oz / 16oz PE UNPRES										
2oz Cr ⁴										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 3oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
1/4 PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- SM										
QT EPA 508/608/30051A										
QT EPA 515.18151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
3oz / 16oz / 32oz AMBER										
3oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	<u>6L</u>	<u>A</u>	<u>A</u>	<u>A</u>						

Comments: _____
 Sample Numbering Completed By: SMH Date/Time: 3-10-23 15:00
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:20
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304992-01	COC Number:	---	Receive Date:	03/10/2023 10:43
	Project Number:	---	Sampling Date:	03/09/2023 15:25
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AA-14-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			
2304992-02	COC Number:	---	Receive Date:	03/10/2023 10:43
	Project Number:	---	Sampling Date:	03/09/2023 15:19
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-14-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			
2304992-03	COC Number:	---	Receive Date:	03/10/2023 10:43
	Project Number:	---	Sampling Date:	03/09/2023 15:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-14-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:20
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304992-01		Client Sample Name: AA-14-1, 3/9/2023 3:25:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	16	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	7.1	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	1.1	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.92	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:20
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304992-01		Client Sample Name: AA-14-1, 3/9/2023 3:25:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	0.68	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	9.5	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	0.48	ug/m3	5.0	0.32	EPA-TO-15	ND	J	1
Ethylbenzene	0.47	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	4.5	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Methyl ethyl ketone	1.1	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:20
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304992-01		Client Sample Name: AA-14-1, 3/9/2023 3:25:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	2.6	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	2.4	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.62	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
1,2,4-Trimethylbenzene	0.49	ug/m3	5.0	0.40	EPA-TO-15	ND	J	1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	1.6	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.6	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	0.56	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
o-Xylene	0.55	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	2.2	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	2.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	93.6	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	102	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:20
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304992-01		Client Sample Name: AA-14-1, 3/9/2023 3:25:00PM, Client							
DCN	Method	Prep Date	Run Date/Time		Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-TO-15	03/22/23 13:21	03/22/23	17:52	BEP	MS-A2	1	B162459	EPA TO-15
2	EPA-TO-15-SIM	03/10/23 13:05	03/11/23	07:29	BEP	MS-A2	1	B161688	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:20
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304992-01	Client Sample Name: AA-14-1, 3/9/2023 3:25:00PM, Client
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.5	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/22/23 08:48	03/22/23 22:05	RMK	GC-A1	1	B162452	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:20
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304992-02		Client Sample Name: IA-14-1, 3/9/2023 3:19:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	48	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	23	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	1.4	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	1.3	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	0.59	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.3	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:20
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304992-02		Client Sample Name: IA-14-1, 3/9/2023 3:19:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	8.4	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	6.8	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	190	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	4.9	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	1.1	ug/m3	5.0	0.32	EPA-TO-15	ND	J	1
Ethylbenzene	1.3	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	0.49	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
n-Heptane	1.5	ug/m3	2.0	0.34	EPA-TO-15	ND	J	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	1.6	ug/m3	5.0	0.20	EPA-TO-15	ND	J	1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	24	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	3.5	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:20
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304992-02		Client Sample Name: IA-14-1, 3/9/2023 3:19:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		1
Styrene	1.1	ug/m3	5.0	0.24	EPA-TO-15	ND	J	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	5.7	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	5.3	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	0.74	ug/m3	5.0	0.40	EPA-TO-15	ND	J	1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	3.1	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	3.3	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	1.2	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
o-Xylene	1.2	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	4.3	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	4.5	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	97.5	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	98.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	115	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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 Long Beach, CA 90804

Reported: 04/03/2023 13:20
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304992-02		Client Sample Name: IA-14-1, 3/9/2023 3:19:00PM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/22/23 13:21	03/22/23 18:35	BEP	MS-A2	1	B162459	EPA TO-15	
2	EPA-TO-15-SIM	03/10/23 13:05	03/11/23 09:40	BEP	MS-A2	20	B161688	EPA TO-15	
3	EPA-TO-15-SIM	03/10/23 13:05	03/11/23 08:14	BEP	MS-A2	1	B161688	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:20
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304992-02	Client Sample Name: IA-14-1, 3/9/2023 3:19:00PM, Client
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	4.3	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/22/23 08:48	03/22/23 22:26	RMK	GC-A1	1	B162452	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 13:20
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304992-03		Client Sample Name: IA-14-2, 3/9/2023 3:20:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	20	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	1
Acetone	46	ug/m3	5.0	0.43	EPA-TO-15	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		2
Benzene	1.5	ug/m3	2.0	0.21	EPA-TO-15	ND	J	2
Benzene	1.5	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		2
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		2
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		2
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		2
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		2
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		2
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		2
Cyclohexane	0.86	ug/m3	2.0	0.38	EPA-TO-15	ND	J	2
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		2
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.0	ug/m3	5.0	0.45	EPA-TO-15	ND	J	2
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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Roux Associates, Inc -Long Beach
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Reported: 04/03/2023 13:20
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304992-03		Client Sample Name: IA-14-2, 3/9/2023 3:20:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		2
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		2
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		2
1,1-Difluoroethane	5.7	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	1
1,1-Difluoroethane	7.8	ug/m3	5.0	2.0	EPA-TO-15	ND		2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Ethanol	170	ug/m3	2.0	0.42	EPA-TO-15	ND		2
Ethyl acetate	4.7	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Ethylbenzene	1.2	ug/m3	5.0	0.32	EPA-TO-15	ND	J	2
Ethylbenzene	1.4	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	0.54	ug/m3	5.0	0.30	EPA-TO-15	ND	J	2
n-Heptane	1.5	ug/m3	2.0	0.34	EPA-TO-15	ND	J	2
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		2
Hexane	1.8	ug/m3	5.0	0.20	EPA-TO-15	ND	J	2
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		2
Isopropyl alcohol	29	ug/m3	2.0	0.32	EPA-TO-15	ND		2
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		2
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	3.1	ug/m3	2.0	0.19	EPA-TO-15	ND		2
Methyl isobutyl ketone	0.41	ug/m3	5.0	0.26	EPA-TO-15	ND	J	2
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		2

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Reported: 04/03/2023 13:20
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID:	2304992-03	Client Sample Name:	IA-14-2, 3/9/2023 3:20:00PM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		2
Styrene	1.2	ug/m3	5.0	0.24	EPA-TO-15	ND	J	2
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		2
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		2
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
Toluene	5.4	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	A01	1
Toluene	6.5	ug/m3	2.0	0.27	EPA-TO-15	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		2
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		2
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		2
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	2
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	0.93	ug/m3	5.0	0.40	EPA-TO-15	ND	J	2
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		2
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	3.4	ug/m3	5.0	0.61	EPA-TO-15	ND	J	2
p- & m-Xylenes	3.8	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	1.3	ug/m3	5.0	0.30	EPA-TO-15	ND	J	2
o-Xylene	1.3	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	4.6	ug/m3	10	0.91	EPA-TO-15	ND	J	2
Total Xylenes	5.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	96.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	96.9	%	70 - 130 (LCL - UCL)		EPA-TO-15			2
4-Bromofluorobenzene (Surrogate)	115	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:20
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304992-03		Client Sample Name: IA-14-2, 3/9/2023 3:20:00PM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15-SIM	03/10/23 13:05	03/11/23 10:20	BEP	MS-A2	20	B161688	EPA TO-15	
2	EPA-TO-15	03/22/23 13:21	03/22/23 19:18	BEP	MS-A2	1	B162459	EPA TO-15	
3	EPA-TO-15-SIM	03/10/23 13:05	03/11/23 09:00	BEP	MS-A2	1	B161688	EPA TO-15	

DCN = Data Continuation Number

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Reported: 04/03/2023 13:20
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304992-03	Client Sample Name: IA-14-2, 3/9/2023 3:20:00PM, Client
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	3.0	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/22/23 08:48	03/22/23 22:46	RMK	GC-A1	1	B162452	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 13:20
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161688							
Acetone	B161688-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B161688-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B161688-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B161688-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B161688-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B161688-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B161688-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B161688-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B161688-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B161688-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B161688-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B161688-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B161688-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B161688-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B161688-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B161688-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B161688-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B161688-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B161688-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B161688-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B161688-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B161688-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B161688-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B161688-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B161688-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B161688-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161688-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B161688-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B161688-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B161688-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B161688-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B161688-BLK1	82.4	%	50 - 150 (LCL - UCL)			1
QC Batch ID: B162459							

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Reported: 04/03/2023 13:20
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162459							
Acetone	B162459-BLK1	ND	ug/m3	5.0	0.43		2
Acrylonitrile	B162459-BLK1	ND	ug/m3	2.0	0.27		2
Allyl chloride	B162459-BLK1	ND	ug/m3	2.0	0.28		2
Benzene	B162459-BLK1	ND	ug/m3	2.0	0.21		2
Benzyl chloride	B162459-BLK1	ND	ug/m3	10	0.26		2
Bromodichloromethane	B162459-BLK1	ND	ug/m3	5.0	0.45		2
Bromoform	B162459-BLK1	ND	ug/m3	10	0.86		2
Bromomethane	B162459-BLK1	ND	ug/m3	2.0	0.47		2
1,3-Butadiene	B162459-BLK1	ND	ug/m3	2.0	0.22		2
Carbon disulfide	B162459-BLK1	ND	ug/m3	2.0	0.19		2
Carbon tetrachloride	B162459-BLK1	ND	ug/m3	5.0	0.45		2
Chlorobenzene	B162459-BLK1	ND	ug/m3	5.0	0.40		2
Chloroethane	B162459-BLK1	ND	ug/m3	2.0	0.53		2
Chloroform	B162459-BLK1	ND	ug/m3	5.0	0.54		2
Chloromethane	B162459-BLK1	ND	ug/m3	2.0	0.21		2
Cyclohexane	B162459-BLK1	ND	ug/m3	2.0	0.38		2
Dibromochloromethane	B162459-BLK1	ND	ug/m3	5.0	0.43		2
1,2-Dibromoethane	B162459-BLK1	ND	ug/m3	5.0	0.58		2
1,2-Dichlorobenzene	B162459-BLK1	ND	ug/m3	5.0	0.50		2
1,3-Dichlorobenzene	B162459-BLK1	ND	ug/m3	5.0	0.31		2
1,4-Dichlorobenzene	B162459-BLK1	ND	ug/m3	5.0	0.50		2
Dichlorodifluoromethane	B162459-BLK1	ND	ug/m3	5.0	0.45		2
1,1-Dichloroethane	B162459-BLK1	ND	ug/m3	5.0	0.23		2
1,2-Dichloroethane	B162459-BLK1	ND	ug/m3	5.0	0.26		2
1,1-Dichloroethene	B162459-BLK1	ND	ug/m3	5.0	0.31		2
cis-1,2-Dichloroethene	B162459-BLK1	ND	ug/m3	2.0	0.32		2
trans-1,2-Dichloroethene	B162459-BLK1	ND	ug/m3	2.0	0.27		2
1,2-Dichloropropane	B162459-BLK1	ND	ug/m3	5.0	0.32		2
cis-1,3-Dichloropropene	B162459-BLK1	ND	ug/m3	5.0	0.30		2
trans-1,3-Dichloropropene	B162459-BLK1	ND	ug/m3	5.0	0.40		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162459-BLK1	ND	ug/m3	5.0	0.91		2
1,1-Difluoroethane	B162459-BLK1	ND	ug/m3	5.0	2.0		2
1,4-Dioxane	B162459-BLK1	ND	ug/m3	2.0	0.33		2
Ethanol	B162459-BLK1	ND	ug/m3	2.0	0.42		2

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 5150 E. Pacific Coast Hwy, Suite 450
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Reported: 04/03/2023 13:20
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162459							
Ethyl acetate	B162459-BLK1	ND	ug/m3	2.0	0.33		2
Ethylbenzene	B162459-BLK1	ND	ug/m3	5.0	0.32		2
1-Ethyl-4-methylbenzene	B162459-BLK1	ND	ug/m3	5.0	0.30		2
n-Heptane	B162459-BLK1	ND	ug/m3	2.0	0.34		2
Hexachlorobutadiene	B162459-BLK1	ND	ug/m3	10	1.5		2
Hexane	B162459-BLK1	ND	ug/m3	5.0	0.20		2
2-Hexanone	B162459-BLK1	ND	ug/m3	5.0	0.29		2
Isopropyl alcohol	B162459-BLK1	ND	ug/m3	2.0	0.32		2
Methylene chloride	B162459-BLK1	ND	ug/m3	10	0.40		2
Methyl ethyl ketone	B162459-BLK1	ND	ug/m3	2.0	0.19		2
Methyl isobutyl ketone	B162459-BLK1	ND	ug/m3	5.0	0.26		2
Methyl t-butyl ether	B162459-BLK1	ND	ug/m3	2.0	0.28		2
Propylene	B162459-BLK1	ND	ug/m3	2.0	0.25		2
Styrene	B162459-BLK1	ND	ug/m3	5.0	0.24		2
1,1,2,2-Tetrachloroethane	B162459-BLK1	ND	ug/m3	5.0	0.47		2
Tetrachloroethene	B162459-BLK1	ND	ug/m3	2.0	0.50		2
Tetrahydrofuran	B162459-BLK1	ND	ug/m3	2.0	0.27		2
Toluene	B162459-BLK1	ND	ug/m3	2.0	0.27		2
1,2,4-Trichlorobenzene	B162459-BLK1	ND	ug/m3	10	0.82		2
1,1,1-Trichloroethane	B162459-BLK1	ND	ug/m3	5.0	0.39		2
1,1,2-Trichloroethane	B162459-BLK1	ND	ug/m3	5.0	0.61		2
Trichloroethene	B162459-BLK1	ND	ug/m3	2.0	0.54		2
Trichlorofluoromethane	B162459-BLK1	ND	ug/m3	5.0	0.47		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B162459-BLK1	ND	ug/m3	5.0	0.55		2
1,2,4-Trimethylbenzene	B162459-BLK1	ND	ug/m3	5.0	0.40		2
1,3,5-Trimethylbenzene	B162459-BLK1	ND	ug/m3	5.0	0.40		2
Vinyl acetate	B162459-BLK1	ND	ug/m3	2.0	0.33		2
Vinyl chloride	B162459-BLK1	ND	ug/m3	2.0	0.39		2
p- & m-Xylenes	B162459-BLK1	ND	ug/m3	5.0	0.61		2
o-Xylene	B162459-BLK1	ND	ug/m3	5.0	0.30		2
Total Xylenes	B162459-BLK1	ND	ug/m3	10	0.91		2
4-Bromofluorobenzene (Surrogate)	B162459-BLK1	92.8	%	70 - 130 (LCL - UCL)			2

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Reported: 04/03/2023 13:20
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161688-BLK1	PB	EPA-TO-15-SIM	03/10/23	03/10/23 19:12	BEP	MS-A2	1
2	B162459-BLK1	PB	EPA-TO-15	03/22/23	03/22/23 16:52	BEP	MS-A2	1

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Reported: 04/03/2023 13:20
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 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161688											
Benzene	B161688-BS1	LCS	0.26261	0.31948	ug/m3	82.2		70 - 130			1
	B161688-BSD1	LCSD	0.26219	0.31948	ug/m3	82.1	0.2	70 - 130	30		2
Benzyl chloride	B161688-BS1	LCS	0.37985	0.51772	ug/m3	73.4		70 - 130		J	1
	B161688-BSD1	LCSD	0.40237	0.51772	ug/m3	77.7	5.8	70 - 130	30	J	2
Carbon tetrachloride	B161688-BS1	LCS	0.58522	0.62913	ug/m3	93.0		70 - 130			1
	B161688-BSD1	LCSD	0.58314	0.62913	ug/m3	92.7	0.4	70 - 130	30		2
Chlorobenzene	B161688-BS1	LCS	0.40617	0.46036	ug/m3	88.2		70 - 130			1
	B161688-BSD1	LCSD	0.41147	0.46036	ug/m3	89.4	1.3	70 - 130	30		2
Chloroform	B161688-BS1	LCS	0.44309	0.48825	ug/m3	90.8		70 - 130			1
	B161688-BSD1	LCSD	0.44709	0.48825	ug/m3	91.6	0.9	70 - 130	30		2
1,2-Dibromoethane	B161688-BS1	LCS	0.69758	0.76835	ug/m3	90.8		70 - 130			1
	B161688-BSD1	LCSD	0.70181	0.76835	ug/m3	91.3	0.6	70 - 130	30		2
1,2-Dichlorobenzene	B161688-BS1	LCS	0.53913	0.60124	ug/m3	89.7		70 - 130			1
	B161688-BSD1	LCSD	0.55488	0.60124	ug/m3	92.3	2.9	70 - 130	30		2
1,3-Dichlorobenzene	B161688-BS1	LCS	0.54009	0.60124	ug/m3	89.8		70 - 130			1
	B161688-BSD1	LCSD	0.56246	0.60124	ug/m3	93.5	4.1	70 - 130	30		2
1,4-Dichlorobenzene	B161688-BS1	LCS	0.59390	0.60124	ug/m3	98.8		70 - 130			1
	B161688-BSD1	LCSD	0.56696	0.60124	ug/m3	94.3	4.6	70 - 130	30		2
1,1-Dichloroethane	B161688-BS1	LCS	0.35508	0.40474	ug/m3	87.7		70 - 130			1
	B161688-BSD1	LCSD	0.35156	0.40474	ug/m3	86.9	1.0	70 - 130	30		2
1,2-Dichloroethane	B161688-BS1	LCS	0.36406	0.40474	ug/m3	89.9		70 - 130			1
	B161688-BSD1	LCSD	0.36597	0.40474	ug/m3	90.4	0.5	70 - 130	30		2
1,1-Dichloroethene	B161688-BS1	LCS	0.33095	0.39649	ug/m3	83.5		70 - 130			1
	B161688-BSD1	LCSD	0.33230	0.39649	ug/m3	83.8	0.4	70 - 130	30		2
cis-1,2-Dichloroethene	B161688-BS1	LCS	0.32905	0.39649	ug/m3	83.0		70 - 130			1
	B161688-BSD1	LCSD	0.33171	0.39649	ug/m3	83.7	0.8	70 - 130	30		2
Methylene chloride	B161688-BS1	LCS	0.32879	0.34737	ug/m3	94.7		70 - 130			1
	B161688-BSD1	LCSD	0.32473	0.34737	ug/m3	93.5	1.2	70 - 130	30		2
Tetrachloroethene	B161688-BS1	LCS	0.60622	0.67825	ug/m3	89.4		70 - 130			1
	B161688-BSD1	LCSD	0.61029	0.67825	ug/m3	90.0	0.7	70 - 130	30		2
Toluene	B161688-BS1	LCS	0.31165	0.37684	ug/m3	82.7		70 - 130			1
	B161688-BSD1	LCSD	0.31026	0.37684	ug/m3	82.3	0.4	70 - 130	30		2
1,1,1-Trichloroethane	B161688-BS1	LCS	0.50061	0.54562	ug/m3	91.8		70 - 130			1
	B161688-BSD1	LCSD	0.49979	0.54562	ug/m3	91.6	0.2	70 - 130	30		2
1,1,2-Trichloroethane	B161688-BS1	LCS	0.49242	0.54562	ug/m3	90.3		70 - 130			1
	B161688-BSD1	LCSD	0.50104	0.54562	ug/m3	91.8	1.7	70 - 130	30		2

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Reported: 04/03/2023 13:20
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161688											
Trichloroethene	B161688-BS1	LCS	0.46811	0.53737	ug/m3	87.1		70 - 130			1
	B161688-BSD1	LCSD	0.47622	0.53737	ug/m3	88.6	1.7	70 - 130	30		2
Vinyl chloride	B161688-BS1	LCS	0.26086	0.25562	ug/m3	102		70 - 130			1
	B161688-BSD1	LCSD	0.24767	0.25562	ug/m3	96.9	5.2	70 - 130	30		2
p- & m-Xylenes	B161688-BS1	LCS	0.74203	0.86843	ug/m3	85.4		70 - 130			1
	B161688-BSD1	LCSD	0.73890	0.86843	ug/m3	85.1	0.4	70 - 130	30		2
o-Xylene	B161688-BS1	LCS	0.36126	0.43421	ug/m3	83.2		70 - 130			1
	B161688-BSD1	LCSD	0.36309	0.43421	ug/m3	83.6	0.5	70 - 130	30		2
Total Xylenes	B161688-BS1	LCS	1.1033	1.3026	ug/m3	84.7		70 - 130			1
	B161688-BSD1	LCSD	1.1020	1.3026	ug/m3	84.6	0.1	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161688-BS1	LCS	3.61	3.58	ug/m3	101		50 - 150			1
	B161688-BSD1	LCSD	3.65	3.58	ug/m3	102	1.1	50 - 150			2
QC Batch ID: B162459											
Benzene	B162459-BS1	LCS	16.102	15.974	ug/m3	101		70 - 130			3
	B162459-BSD1	LCSD	16.261	15.974	ug/m3	102	1.0	70 - 130	30		4
Chloroform	B162459-BS1	LCS	23.339	24.413	ug/m3	95.6		70 - 130			3
	B162459-BSD1	LCSD	23.387	24.413	ug/m3	95.8	0.2	70 - 130	30		4
Ethylbenzene	B162459-BS1	LCS	23.708	21.711	ug/m3	109		70 - 130			3
	B162459-BSD1	LCSD	23.751	21.711	ug/m3	109	0.2	70 - 130	30		4
Tetrachloroethene	B162459-BS1	LCS	34.455	33.913	ug/m3	102		70 - 130			3
	B162459-BSD1	LCSD	34.320	33.913	ug/m3	101	0.4	70 - 130	30		4
Toluene	B162459-BS1	LCS	19.822	18.842	ug/m3	105		70 - 130			3
	B162459-BSD1	LCSD	19.709	18.842	ug/m3	105	0.6	70 - 130	30		4
Trichloroethene	B162459-BS1	LCS	27.406	26.869	ug/m3	102		70 - 130			3
	B162459-BSD1	LCSD	27.137	26.869	ug/m3	101	1.0	70 - 130	30		4
Trichlorofluoromethane	B162459-BS1	LCS	26.406	28.092	ug/m3	94.0		70 - 130			3
	B162459-BSD1	LCSD	26.799	28.092	ug/m3	95.4	1.5	70 - 130	30		4
1,1,2-Trichloro-1,2,2-trifluoroethane	B162459-BS1	LCS	37.705	38.318	ug/m3	98.4		70 - 130			3
	B162459-BSD1	LCSD	38.165	38.318	ug/m3	99.6	1.2	70 - 130	30		4
p- & m-Xylenes	B162459-BS1	LCS	47.720	43.421	ug/m3	110		70 - 130			3
	B162459-BSD1	LCSD	48.284	43.421	ug/m3	111	1.2	70 - 130	30		4
o-Xylene	B162459-BS1	LCS	23.665	21.711	ug/m3	109		70 - 130			3
	B162459-BSD1	LCSD	23.838	21.711	ug/m3	110	0.7	70 - 130	30		4
Total Xylenes	B162459-BS1	LCS	71.385	65.132	ug/m3	110		70 - 130			3
	B162459-BSD1	LCSD	72.123	65.132	ug/m3	111	1.0	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B162459-BS1	LCS	73.0	71.6	ug/m3	102		70 - 130			3
	B162459-BSD1	LCSD	72.1	71.6	ug/m3	101	1.3	70 - 130			4

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:20
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161688-BS1	LCS	EPA-TO-15-SIM	03/10/23	03/10/23 17:58	BEP	MS-A2	1
2	B161688-BSD1	LCSD	EPA-TO-15-SIM	03/10/23	03/10/23 18:37	BEP	MS-A2	1
3	B162459-BS1	LCS	EPA-TO-15	03/22/23	03/22/23 15:35	BEP	MS-A2	1
4	B162459-BSD1	LCSD	EPA-TO-15	03/22/23	03/22/23 16:15	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:20
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B162452

Methane (CH4)	B162452-BLK1	ND	ppmv	2.0	1.8		1
---------------	--------------	----	------	-----	-----	--	---

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162452-BLK1	PB	ASTM-D1946	03/22/23	03/22/23 17:17	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:20
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162452											
Methane (CH4)	B162452-BS1	LCS	19118	18000	ppmv	106		70 - 130			1
	B162452-BSD1	LCSD	19111	18000	ppmv	106	0.0	70 - 130	30		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162452-BS1	LCS	ASTM-D1946	03/22/23	03/22/23	16:36	RMK	GC-A1	1
2	B162452-BSD1	LCSD	ASTM-D1946	03/22/23	03/22/23	16:57	RMK	GC-A1	1

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:20
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

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



Date of Report: 03/24/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2305251
Invoice ID: B472209

Enclosed are the results of analyses for samples received by the laboratory on 3/15/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "BS", is positioned above a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", is positioned above a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / Analytical Receipt
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.



2305251

23-05251

Section A Required Client Information Company: <u>Rova</u> Address: <u>5150 E Pacific Coast Hwy Ste 450 Long Beach, CA 90804</u> Email: <u>amc@paceanalytical.com</u> Phone: <u>562-466-8824</u> Fax: _____ Requested Due Date/TAT: _____ Standard		Section B Required Project Information Report To: <u>April McGuire</u> City To: _____ Purchase Order No: _____ Project Name: <u>City Terrace</u> Project Number: <u>2855</u>		Section C Invoice Information Attention: <u>Rova Accounts Payable (rouva@paceanalytical.com)</u> Company Name: <u>Rova</u> Address: <u>5150 E Pacific Coast Hwy Ste 450 Long Beach, CA 90804</u> PACE Quote Reference: <u>00132481 & 00132533</u> PACE Project Manager/Sales Rep: <u>Brian Schulte / Dawn Gror</u> PACE Profile #: _____		Program: _____ <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other: _____ Location of Sampling by State: <u>CA</u> Report Level: I. X. II. III. IV. Other: _____		Method: _____ Pace Lab ID: _____ PM10 _____ TC-Fixed Gas (%) _____ TO-3M (Metals) _____ TO-13 (PAH) _____ TO-14 _____ TO-15 _____ TO-15 SM _____ TO-15 SM Lab _____ TO-15 SM Lab _____		Temp in °C: _____ Received on: _____ Ice: _____ Sealed Cooler: _____ Custody: _____ Samples Inact: _____ Samples: _____ Y/N: _____ Y/N: _____ Y/N: _____ Y/N: _____ Y/N: _____																	
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE <u>SU-14-1</u> <u>SU-14-2</u> <u>SU-14-2-D</u>		COLLECTED <table border="1"> <tr> <th>DATE</th> <th>TIME</th> <th>DATE</th> <th>TIME</th> </tr> <tr> <td><u>3/9/13</u></td> <td><u>1744</u></td> <td><u>3/9/13</u></td> <td><u>1744</u></td> </tr> <tr> <td><u>1739</u></td> <td><u>1745</u></td> <td><u>1739</u></td> <td><u>1745</u></td> </tr> <tr> <td><u>1739</u></td> <td><u>1745</u></td> <td><u>1739</u></td> <td><u>1745</u></td> </tr> </table>		DATE	TIME	DATE	TIME	<u>3/9/13</u>	<u>1744</u>	<u>3/9/13</u>	<u>1744</u>	<u>1739</u>	<u>1745</u>	<u>1739</u>	<u>1745</u>	<u>1739</u>	<u>1745</u>	<u>1739</u>	<u>1745</u>	Initial Field - (psig) _____ Final Field - (psig) _____ Summa Can Number: _____ Flow Control Number: _____ Media Code: _____ PID Reading (Corrected): _____		RELINQUISHED BY / AFFILIATION DATE TIME <u>Alex Perdikis (Rova)</u> <u>3/9/13</u> <u>1735</u> <u>Alex Perdikis (Rova)</u> <u>3/10/13</u> <u>1630</u>		ACCEPTED BY / AFFILIATION DATE TIME <u>Alex Perdikis (Rova)</u> <u>3/9/13</u> <u>1755</u> <u>Amey Rova</u> <u>3/15/13</u> <u>1647</u>		CHK BY <u>Pace</u> <input type="checkbox"/> AIR <input type="checkbox"/> SUB OUT	
DATE	TIME	DATE	TIME																								
<u>3/9/13</u>	<u>1744</u>	<u>3/9/13</u>	<u>1744</u>																								
<u>1739</u>	<u>1745</u>	<u>1739</u>	<u>1745</u>																								
<u>1739</u>	<u>1745</u>	<u>1739</u>	<u>1745</u>																								
ITEM # 1 ITEM # 2 ITEM # 3 ITEM # 4 ITEM # 5 ITEM # 6 ITEM # 7 ITEM # 8 ITEM # 9 ITEM # 10 ITEM # 11 ITEM # 12		SAMPLER NAME AND SIGNATURE <u>ALEX PERDIKIS</u> <u>ALEX PERDIKIS</u>		1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612-607-6386 FC048Rev 01. 03Feb2010																							

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 Of 1						
Submission #: <u>23-05251</u>										
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S					
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments:										
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>										
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Summa</u> Thermometer ID: _____ Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Date/Time <u>3-13-23</u> Analyst Init <u>SMH 0930</u>						
SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ¹⁵										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 505/605.3/8051A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
5oz / 16oz / 32oz AMBER										
5oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEFLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A	A							

Comments:
 Sample Numbering Completed By: PLC Date/Time: 3/15/23 1600
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/24/2023 15:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2305251-01	COC Number:	---	Receive Date:	03/15/2023 10:47
	Project Number:	---	Sampling Date:	03/09/2023 17:44
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-14-1	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
2305251-02	COC Number:	---	Receive Date:	03/15/2023 10:47
	Project Number:	---	Sampling Date:	03/09/2023 17:45
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-14-2	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
2305251-03	COC Number:	---	Receive Date:	03/15/2023 10:47
	Project Number:	---	Sampling Date:	03/09/2023 17:45
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-14-2-D	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/24/2023 15:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305251-01		Client Sample Name: SV-14-1, 3/9/2023 5:44:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	64	ug/m3	8.2	0.71	EPA-TO-15	ND	A10	1
Acrylonitrile	ND	ug/m3	3.3	0.45	EPA-TO-15	ND	A10	1
Allyl chloride	ND	ug/m3	3.3	0.46	EPA-TO-15	ND	A10	1
Benzene	4.7	ug/m3	3.3	0.35	EPA-TO-15	ND	A10	1
Benzyl chloride	ND	ug/m3	16	0.43	EPA-TO-15	ND	A10	1
Bromodichloromethane	ND	ug/m3	8.2	0.74	EPA-TO-15	ND	A10	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A10	1
Bromomethane	ND	ug/m3	3.3	0.78	EPA-TO-15	ND	A10	1
1,3-Butadiene	ND	ug/m3	3.3	0.36	EPA-TO-15	ND	A10	1
Carbon disulfide	9.1	ug/m3	3.3	0.31	EPA-TO-15	ND	A10	1
Carbon tetrachloride	ND	ug/m3	8.2	0.74	EPA-TO-15	ND	A10	1
Chlorobenzene	ND	ug/m3	8.2	0.66	EPA-TO-15	ND	A10	1
Chloroethane	ND	ug/m3	3.3	0.87	EPA-TO-15	ND	A10	1
Chloroform	ND	ug/m3	8.2	0.89	EPA-TO-15	ND	A10	1
Chloromethane	ND	ug/m3	3.3	0.35	EPA-TO-15	ND	A10	1
Cyclohexane	1.6	ug/m3	3.3	0.63	EPA-TO-15	ND	J,A10	1
Dibromochloromethane	ND	ug/m3	8.2	0.71	EPA-TO-15	ND	A10	1
1,2-Dibromoethane	ND	ug/m3	8.2	0.96	EPA-TO-15	ND	A10	1
1,2-Dichlorobenzene	ND	ug/m3	8.2	0.82	EPA-TO-15	ND	A10	1
1,3-Dichlorobenzene	ND	ug/m3	8.2	0.51	EPA-TO-15	ND	A10	1
1,4-Dichlorobenzene	ND	ug/m3	8.2	0.82	EPA-TO-15	ND	A10	1
Dichlorodifluoromethane	3.1	ug/m3	8.2	0.74	EPA-TO-15	ND	J,A10	1
1,1-Dichloroethane	ND	ug/m3	8.2	0.38	EPA-TO-15	ND	A10	1
1,2-Dichloroethane	ND	ug/m3	8.2	0.43	EPA-TO-15	ND	A10	1
1,1-Dichloroethene	ND	ug/m3	8.2	0.51	EPA-TO-15	ND	A10	1
cis-1,2-Dichloroethene	ND	ug/m3	3.3	0.53	EPA-TO-15	ND	A10	1
trans-1,2-Dichloroethene	ND	ug/m3	3.3	0.45	EPA-TO-15	ND	A10	1
1,2-Dichloropropane	ND	ug/m3	8.2	0.53	EPA-TO-15	ND	A10	1
cis-1,3-Dichloropropene	ND	ug/m3	8.2	0.50	EPA-TO-15	ND	A10	1
trans-1,3-Dichloropropene	ND	ug/m3	8.2	0.66	EPA-TO-15	ND	A10	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.2	1.5	EPA-TO-15	ND	A10	1
1,1-Difluoroethane	6.1	ug/m3	8.2	3.3	EPA-TO-15	ND	J,A10	1
1,4-Dioxane	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A10	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/24/2023 15:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305251-01		Client Sample Name: SV-14-1, 3/9/2023 5:44:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	24	ug/m3	3.3	0.69	EPA-TO-15	ND	A10	1
Ethyl acetate	2.0	ug/m3	3.3	0.54	EPA-TO-15	ND	J,A10	1
Ethylbenzene	2.1	ug/m3	8.2	0.53	EPA-TO-15	ND	J,A10	1
1-Ethyl-4-methylbenzene	ND	ug/m3	8.2	0.50	EPA-TO-15	ND	A10	1
n-Heptane	4.5	ug/m3	3.3	0.56	EPA-TO-15	ND	A10	1
Hexachlorobutadiene	ND	ug/m3	16	2.5	EPA-TO-15	ND	A10	1
Hexane	3.9	ug/m3	8.2	0.33	EPA-TO-15	ND	J,A10	1
2-Hexanone	ND	ug/m3	8.2	0.48	EPA-TO-15	ND	A10	1
Isopropyl alcohol	32	ug/m3	3.3	0.53	EPA-TO-15	ND	A10	1
Methylene chloride	ND	ug/m3	16	0.66	EPA-TO-15	ND	A10	1
Methyl ethyl ketone	3.8	ug/m3	3.3	0.31	EPA-TO-15	ND	A10	1
Methyl isobutyl ketone	ND	ug/m3	8.2	0.43	EPA-TO-15	ND	A10	1
Methyl t-butyl ether	ND	ug/m3	3.3	0.46	EPA-TO-15	ND	A10	1
Propylene	11	ug/m3	3.3	0.41	EPA-TO-15	ND	A10	1
Styrene	ND	ug/m3	8.2	0.40	EPA-TO-15	ND	A10	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.2	0.78	EPA-TO-15	ND	A10	1
Tetrachloroethene	ND	ug/m3	3.3	0.82	EPA-TO-15	ND	A10	1
Tetrahydrofuran	7.6	ug/m3	3.3	0.45	EPA-TO-15	ND	A10	1
Toluene	8.0	ug/m3	3.3	0.45	EPA-TO-15	ND	A10	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.4	EPA-TO-15	ND	A10	1
1,1,1-Trichloroethane	ND	ug/m3	8.2	0.64	EPA-TO-15	ND	A10	1
1,1,2-Trichloroethane	ND	ug/m3	8.2	1.0	EPA-TO-15	ND	A10	1
Trichloroethene	ND	ug/m3	3.3	0.89	EPA-TO-15	ND	A10	1
Trichlorofluoromethane	1.4	ug/m3	8.2	0.78	EPA-TO-15	ND	J,A10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.2	0.91	EPA-TO-15	ND	A10	1
1,2,4-Trimethylbenzene	1.2	ug/m3	8.2	0.66	EPA-TO-15	ND	J,A10	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.2	0.66	EPA-TO-15	ND	A10	1
Vinyl acetate	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A10	1
Vinyl chloride	ND	ug/m3	3.3	0.64	EPA-TO-15	ND	A10	1
p- & m-Xylenes	7.4	ug/m3	8.2	1.0	EPA-TO-15	ND	J,A10	1
o-Xylene	2.1	ug/m3	8.2	0.50	EPA-TO-15	ND	J,A10	1
Total Xylenes	9.5	ug/m3	16	1.5	EPA-TO-15	ND	J,A10	1
4-Bromofluorobenzene (Surrogate)	94.4	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/24/2023 15:14
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305251-01	Client Sample Name: SV-14-1, 3/9/2023 5:44:00PM
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	03/23/23 13:06	03/23/23 23:31	BEP	MS-A2	1.650	B162553 EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/24/2023 15:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305251-02		Client Sample Name: SV-14-2, 3/9/2023 5:45:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	51	ug/m3	7.8	0.67	EPA-TO-15	ND	A10	1
Acrylonitrile	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A10	1
Allyl chloride	ND	ug/m3	3.1	0.44	EPA-TO-15	ND	A10	1
Benzene	4.5	ug/m3	3.1	0.33	EPA-TO-15	ND	A10	1
Benzyl chloride	ND	ug/m3	16	0.41	EPA-TO-15	ND	A10	1
Bromodichloromethane	ND	ug/m3	7.8	0.70	EPA-TO-15	ND	A10	1
Bromoform	ND	ug/m3	16	1.3	EPA-TO-15	ND	A10	1
Bromomethane	ND	ug/m3	3.1	0.73	EPA-TO-15	ND	A10	1
1,3-Butadiene	ND	ug/m3	3.1	0.34	EPA-TO-15	ND	A10	1
Carbon disulfide	6.2	ug/m3	3.1	0.30	EPA-TO-15	ND	A10	1
Carbon tetrachloride	ND	ug/m3	7.8	0.70	EPA-TO-15	ND	A10	1
Chlorobenzene	ND	ug/m3	7.8	0.62	EPA-TO-15	ND	A10	1
Chloroethane	ND	ug/m3	3.1	0.83	EPA-TO-15	ND	A10	1
Chloroform	ND	ug/m3	7.8	0.84	EPA-TO-15	ND	A10	1
Chloromethane	0.81	ug/m3	3.1	0.33	EPA-TO-15	ND	J,A10	1
Cyclohexane	1.0	ug/m3	3.1	0.59	EPA-TO-15	ND	J,A10	1
Dibromochloromethane	ND	ug/m3	7.8	0.67	EPA-TO-15	ND	A10	1
1,2-Dibromoethane	ND	ug/m3	7.8	0.90	EPA-TO-15	ND	A10	1
1,2-Dichlorobenzene	ND	ug/m3	7.8	0.78	EPA-TO-15	ND	A10	1
1,3-Dichlorobenzene	ND	ug/m3	7.8	0.48	EPA-TO-15	ND	A10	1
1,4-Dichlorobenzene	ND	ug/m3	7.8	0.78	EPA-TO-15	ND	A10	1
Dichlorodifluoromethane	3.1	ug/m3	7.8	0.70	EPA-TO-15	ND	J,A10	1
1,1-Dichloroethane	ND	ug/m3	7.8	0.36	EPA-TO-15	ND	A10	1
1,2-Dichloroethane	ND	ug/m3	7.8	0.41	EPA-TO-15	ND	A10	1
1,1-Dichloroethene	ND	ug/m3	7.8	0.48	EPA-TO-15	ND	A10	1
cis-1,2-Dichloroethene	ND	ug/m3	3.1	0.50	EPA-TO-15	ND	A10	1
trans-1,2-Dichloroethene	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A10	1
1,2-Dichloropropane	ND	ug/m3	7.8	0.50	EPA-TO-15	ND	A10	1
cis-1,3-Dichloropropene	ND	ug/m3	7.8	0.47	EPA-TO-15	ND	A10	1
trans-1,3-Dichloropropene	ND	ug/m3	7.8	0.62	EPA-TO-15	ND	A10	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	7.8	1.4	EPA-TO-15	ND	A10	1
1,1-Difluoroethane	5.3	ug/m3	7.8	3.1	EPA-TO-15	ND	J,A10	1
1,4-Dioxane	ND	ug/m3	3.1	0.51	EPA-TO-15	ND	A10	1

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 Long Beach, CA 90804

Reported: 03/24/2023 15:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305251-02		Client Sample Name: SV-14-2, 3/9/2023 5:45:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	16	ug/m3	3.1	0.66	EPA-TO-15	ND	A10	1
Ethyl acetate	2.3	ug/m3	3.1	0.51	EPA-TO-15	ND	J,A10	1
Ethylbenzene	2.6	ug/m3	7.8	0.50	EPA-TO-15	ND	J,A10	1
1-Ethyl-4-methylbenzene	1.0	ug/m3	7.8	0.47	EPA-TO-15	ND	J,A10	1
n-Heptane	4.9	ug/m3	3.1	0.53	EPA-TO-15	ND	A10	1
Hexachlorobutadiene	ND	ug/m3	16	2.3	EPA-TO-15	ND	A10	1
Hexane	3.8	ug/m3	7.8	0.31	EPA-TO-15	ND	J,A10	1
2-Hexanone	ND	ug/m3	7.8	0.45	EPA-TO-15	ND	A10	1
Isopropyl alcohol	35	ug/m3	3.1	0.50	EPA-TO-15	ND	A10	1
Methylene chloride	ND	ug/m3	16	0.62	EPA-TO-15	ND	A10	1
Methyl ethyl ketone	2.8	ug/m3	3.1	0.30	EPA-TO-15	ND	J,A10	1
Methyl isobutyl ketone	0.70	ug/m3	7.8	0.41	EPA-TO-15	ND	J,A10	1
Methyl t-butyl ether	ND	ug/m3	3.1	0.44	EPA-TO-15	ND	A10	1
Propylene	3.3	ug/m3	3.1	0.39	EPA-TO-15	ND	A10	1
Styrene	ND	ug/m3	7.8	0.37	EPA-TO-15	ND	A10	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	7.8	0.73	EPA-TO-15	ND	A10	1
Tetrachloroethene	ND	ug/m3	3.1	0.78	EPA-TO-15	ND	A10	1
Tetrahydrofuran	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A10	1
Toluene	7.8	ug/m3	3.1	0.42	EPA-TO-15	ND	A10	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A10	1
1,1,1-Trichloroethane	ND	ug/m3	7.8	0.61	EPA-TO-15	ND	A10	1
1,1,2-Trichloroethane	ND	ug/m3	7.8	0.95	EPA-TO-15	ND	A10	1
Trichloroethene	ND	ug/m3	3.1	0.84	EPA-TO-15	ND	A10	1
Trichlorofluoromethane	1.4	ug/m3	7.8	0.73	EPA-TO-15	ND	J,A10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	7.8	0.86	EPA-TO-15	ND	A10	1
1,2,4-Trimethylbenzene	1.6	ug/m3	7.8	0.62	EPA-TO-15	ND	J,A10	1
1,3,5-Trimethylbenzene	ND	ug/m3	7.8	0.62	EPA-TO-15	ND	A10	1
Vinyl acetate	ND	ug/m3	3.1	0.51	EPA-TO-15	ND	A10	1
Vinyl chloride	ND	ug/m3	3.1	0.61	EPA-TO-15	ND	A10	1
p- & m-Xylenes	8.2	ug/m3	7.8	0.95	EPA-TO-15	ND	A10	1
o-Xylene	2.5	ug/m3	7.8	0.47	EPA-TO-15	ND	J,A10	1
Total Xylenes	11	ug/m3	16	1.4	EPA-TO-15	ND	J,A10	1
4-Bromofluorobenzene (Surrogate)	93.6	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/24/2023 15:14
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305251-02	Client Sample Name: SV-14-2, 3/9/2023 5:45:00PM
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	03/23/23 13:06	03/24/23 00:15	BEP	MS-A2	1.560	B162553 EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/24/2023 15:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305251-03		Client Sample Name: SV-14-2-D, 3/9/2023 5:45:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	53	ug/m3	8.2	0.71	EPA-TO-15	ND	A10	1
Acrylonitrile	ND	ug/m3	3.3	0.44	EPA-TO-15	ND	A10	1
Allyl chloride	ND	ug/m3	3.3	0.46	EPA-TO-15	ND	A10	1
Benzene	4.6	ug/m3	3.3	0.34	EPA-TO-15	ND	A10	1
Benzyl chloride	ND	ug/m3	16	0.43	EPA-TO-15	ND	A10	1
Bromodichloromethane	ND	ug/m3	8.2	0.74	EPA-TO-15	ND	A10	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A10	1
Bromomethane	ND	ug/m3	3.3	0.77	EPA-TO-15	ND	A10	1
1,3-Butadiene	ND	ug/m3	3.3	0.36	EPA-TO-15	ND	A10	1
Carbon disulfide	6.2	ug/m3	3.3	0.31	EPA-TO-15	ND	A10	1
Carbon tetrachloride	ND	ug/m3	8.2	0.74	EPA-TO-15	ND	A10	1
Chlorobenzene	ND	ug/m3	8.2	0.66	EPA-TO-15	ND	A10	1
Chloroethane	ND	ug/m3	3.3	0.87	EPA-TO-15	ND	A10	1
Chloroform	ND	ug/m3	8.2	0.89	EPA-TO-15	ND	A10	1
Chloromethane	0.71	ug/m3	3.3	0.34	EPA-TO-15	ND	J,A10	1
Cyclohexane	ND	ug/m3	3.3	0.62	EPA-TO-15	ND	A10	1
Dibromochloromethane	ND	ug/m3	8.2	0.71	EPA-TO-15	ND	A10	1
1,2-Dibromoethane	ND	ug/m3	8.2	0.95	EPA-TO-15	ND	A10	1
1,2-Dichlorobenzene	ND	ug/m3	8.2	0.82	EPA-TO-15	ND	A10	1
1,3-Dichlorobenzene	ND	ug/m3	8.2	0.51	EPA-TO-15	ND	A10	1
1,4-Dichlorobenzene	ND	ug/m3	8.2	0.82	EPA-TO-15	ND	A10	1
Dichlorodifluoromethane	2.6	ug/m3	8.2	0.74	EPA-TO-15	ND	J,A10	1
1,1-Dichloroethane	ND	ug/m3	8.2	0.38	EPA-TO-15	ND	A10	1
1,2-Dichloroethane	ND	ug/m3	8.2	0.43	EPA-TO-15	ND	A10	1
1,1-Dichloroethene	ND	ug/m3	8.2	0.51	EPA-TO-15	ND	A10	1
cis-1,2-Dichloroethene	ND	ug/m3	3.3	0.52	EPA-TO-15	ND	A10	1
trans-1,2-Dichloroethene	ND	ug/m3	3.3	0.44	EPA-TO-15	ND	A10	1
1,2-Dichloropropane	ND	ug/m3	8.2	0.52	EPA-TO-15	ND	A10	1
cis-1,3-Dichloropropene	ND	ug/m3	8.2	0.49	EPA-TO-15	ND	A10	1
trans-1,3-Dichloropropene	ND	ug/m3	8.2	0.66	EPA-TO-15	ND	A10	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.2	1.5	EPA-TO-15	ND	A10	1
1,1-Difluoroethane	8.1	ug/m3	8.2	3.3	EPA-TO-15	ND	J,A10	1
1,4-Dioxane	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A10	1

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 Long Beach, CA 90804

Reported: 03/24/2023 15:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305251-03		Client Sample Name: SV-14-2-D, 3/9/2023 5:45:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	16	ug/m3	3.3	0.69	EPA-TO-15	ND	A10	1
Ethyl acetate	2.4	ug/m3	3.3	0.54	EPA-TO-15	ND	J,A10	1
Ethylbenzene	2.3	ug/m3	8.2	0.52	EPA-TO-15	ND	J,A10	1
1-Ethyl-4-methylbenzene	ND	ug/m3	8.2	0.49	EPA-TO-15	ND	A10	1
n-Heptane	4.9	ug/m3	3.3	0.56	EPA-TO-15	ND	A10	1
Hexachlorobutadiene	ND	ug/m3	16	2.5	EPA-TO-15	ND	A10	1
Hexane	3.6	ug/m3	8.2	0.33	EPA-TO-15	ND	J,A10	1
2-Hexanone	ND	ug/m3	8.2	0.48	EPA-TO-15	ND	A10	1
Isopropyl alcohol	29	ug/m3	3.3	0.52	EPA-TO-15	ND	A10	1
Methylene chloride	ND	ug/m3	16	0.66	EPA-TO-15	ND	A10	1
Methyl ethyl ketone	3.4	ug/m3	3.3	0.31	EPA-TO-15	ND	A10	1
Methyl isobutyl ketone	0.67	ug/m3	8.2	0.43	EPA-TO-15	ND	J,A10	1
Methyl t-butyl ether	ND	ug/m3	3.3	0.46	EPA-TO-15	ND	A10	1
Propylene	3.1	ug/m3	3.3	0.41	EPA-TO-15	ND	J,A10	1
Styrene	ND	ug/m3	8.2	0.39	EPA-TO-15	ND	A10	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.2	0.77	EPA-TO-15	ND	A10	1
Tetrachloroethene	ND	ug/m3	3.3	0.82	EPA-TO-15	ND	A10	1
Tetrahydrofuran	ND	ug/m3	3.3	0.44	EPA-TO-15	ND	A10	1
Toluene	7.8	ug/m3	3.3	0.44	EPA-TO-15	ND	A10	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A10	1
1,1,1-Trichloroethane	ND	ug/m3	8.2	0.64	EPA-TO-15	ND	A10	1
1,1,2-Trichloroethane	ND	ug/m3	8.2	1.0	EPA-TO-15	ND	A10	1
Trichloroethene	ND	ug/m3	3.3	0.89	EPA-TO-15	ND	A10	1
Trichlorofluoromethane	1.4	ug/m3	8.2	0.77	EPA-TO-15	ND	J,A10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.2	0.90	EPA-TO-15	ND	A10	1
1,2,4-Trimethylbenzene	1.3	ug/m3	8.2	0.66	EPA-TO-15	ND	J,A10	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.2	0.66	EPA-TO-15	ND	A10	1
Vinyl acetate	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A10	1
Vinyl chloride	ND	ug/m3	3.3	0.64	EPA-TO-15	ND	A10	1
p- & m-Xylenes	7.5	ug/m3	8.2	1.0	EPA-TO-15	ND	J,A10	1
o-Xylene	2.3	ug/m3	8.2	0.49	EPA-TO-15	ND	J,A10	1
Total Xylenes	9.9	ug/m3	16	1.5	EPA-TO-15	ND	J,A10	1
4-Bromofluorobenzene (Surrogate)	95.1	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/24/2023 15:14
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305251-03	Client Sample Name: SV-14-2-D, 3/9/2023 5:45:00PM
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15	03/23/23 13:06	03/24/23	00:59	BEP	MS-A2	1.640	B162553	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 03/24/2023 15:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162553							
Acetone	B162553-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B162553-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B162553-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B162553-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B162553-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B162553-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B162553-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B162553-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B162553-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B162553-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B162553-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B162553-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B162553-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B162553-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B162553-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B162553-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B162553-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B162553-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B162553-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B162553-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B162553-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B162553-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B162553-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B162553-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B162553-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B162553-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B162553-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B162553-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B162553-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B162553-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162553-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B162553-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B162553-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B162553-BLK1	ND	ug/m3	2.0	0.42		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/24/2023 15:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162553							
Ethyl acetate	B162553-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B162553-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B162553-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B162553-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B162553-BLK1	ND	ug/m3	10	1.5		1
Hexane	B162553-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B162553-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B162553-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B162553-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B162553-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B162553-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B162553-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B162553-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B162553-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B162553-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B162553-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B162553-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B162553-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B162553-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B162553-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B162553-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B162553-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B162553-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B162553-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B162553-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B162553-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B162553-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B162553-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B162553-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B162553-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B162553-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B162553-BLK1	93.5	%	70 - 130 (LCL - UCL)			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/24/2023 15:14
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
1	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/24/2023 15:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162553											
Benzene	B162553-BS1	LCS	17.060	15.974	ug/m3	107		70 - 130			1
	B162553-BSD1	LCSD	17.060	15.974	ug/m3	107	0	70 - 130	30		2
Chloroform	B162553-BS1	LCS	24.999	24.413	ug/m3	102		70 - 130			1
	B162553-BSD1	LCSD	25.292	24.413	ug/m3	104	1.2	70 - 130	30		2
Ethylbenzene	B162553-BS1	LCS	24.099	21.711	ug/m3	111		70 - 130			1
	B162553-BSD1	LCSD	24.229	21.711	ug/m3	112	0.5	70 - 130	30		2
Tetrachloroethene	B162553-BS1	LCS	36.015	33.913	ug/m3	106		70 - 130			1
	B162553-BSD1	LCSD	36.219	33.913	ug/m3	107	0.6	70 - 130	30		2
Toluene	B162553-BS1	LCS	20.726	18.842	ug/m3	110		70 - 130			1
	B162553-BSD1	LCSD	20.764	18.842	ug/m3	110	0.2	70 - 130	30		2
Trichloroethene	B162553-BS1	LCS	28.588	26.869	ug/m3	106		70 - 130			1
	B162553-BSD1	LCSD	28.642	26.869	ug/m3	107	0.2	70 - 130	30		2
Trichlorofluoromethane	B162553-BS1	LCS	28.934	28.092	ug/m3	103		70 - 130			1
	B162553-BSD1	LCSD	29.047	28.092	ug/m3	103	0.4	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B162553-BS1	LCS	40.234	38.318	ug/m3	105		70 - 130			1
	B162553-BSD1	LCSD	40.311	38.318	ug/m3	105	0.2	70 - 130	30		2
p- & m-Xylenes	B162553-BS1	LCS	49.500	43.421	ug/m3	114		70 - 130			1
	B162553-BSD1	LCSD	49.891	43.421	ug/m3	115	0.8	70 - 130	30		2
o-Xylene	B162553-BS1	LCS	24.446	21.711	ug/m3	113		70 - 130			1
	B162553-BSD1	LCSD	24.576	21.711	ug/m3	113	0.5	70 - 130	30		2
Total Xylenes	B162553-BS1	LCS	73.946	65.132	ug/m3	114		70 - 130			1
	B162553-BSD1	LCSD	74.467	65.132	ug/m3	114	0.7	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B162553-BS1	LCS	71.4	71.6	ug/m3	99.7		70 - 130			1
	B162553-BSD1	LCSD	71.6	71.6	ug/m3	100	0.3	70 - 130			2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/24/2023 15:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23	14:31	BEP	MS-A2	1
1	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23	14:31	BEP	MS-A2	1
1	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23	14:31	BEP	MS-A2	1
1	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23	14:31	BEP	MS-A2	1
1	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23	14:31	BEP	MS-A2	1
1	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23	14:31	BEP	MS-A2	1
1	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23	14:31	BEP	MS-A2	1
1	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23	14:31	BEP	MS-A2	1
1	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23	14:31	BEP	MS-A2	1
1	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23	14:31	BEP	MS-A2	1
1	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23	14:31	BEP	MS-A2	1
1	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23	14:31	BEP	MS-A2	1
1	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23	14:31	BEP	MS-A2	1
2	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23	15:11	BEP	MS-A2	1
2	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23	15:11	BEP	MS-A2	1
2	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23	15:11	BEP	MS-A2	1
2	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23	15:11	BEP	MS-A2	1
2	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23	15:11	BEP	MS-A2	1
2	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23	15:11	BEP	MS-A2	1
2	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23	15:11	BEP	MS-A2	1
2	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23	15:11	BEP	MS-A2	1
2	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23	15:11	BEP	MS-A2	1
2	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23	15:11	BEP	MS-A2	1
2	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23	15:11	BEP	MS-A2	1
2	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23	15:11	BEP	MS-A2	1
2	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23	15:11	BEP	MS-A2	1
2	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23	15:11	BEP	MS-A2	1
2	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23	15:11	BEP	MS-A2	1
2	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23	15:11	BEP	MS-A2	1
2	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23	15:11	BEP	MS-A2	1
2	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23	15:11	BEP	MS-A2	1
2	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23	15:11	BEP	MS-A2	1
2	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23	15:11	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/24/2023 15:14
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A10 Detection and quantitation limits were raised due to matrix interference.



Date of Report: 04/03/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304045
Invoice ID: B471029, B471950, B472841

Enclosed are the results of analyses for samples received by the laboratory on 2/27/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001408460

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Document

AIR: CHAIN-OF-CUST
The Chain-of-Custody is a LEGAL DOCUMENT



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2304045

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Section A Required Client Information		Section B Required Project Information		Section C Invoice Information		Section D Required Client Information	
Company: Roux	Report To: April McGuire	Company Name: Roux	Company Name: Roux	Company Name: Roux	Company Name: Roux	Company Name: Roux	Company Name: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450 Long Beach, CA 20804	Copy To:	Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804	Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804	Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804	Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804	Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804	Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
Email To: amcguire@rouxinc.com	Purchase Order No.:	Phone: 562-446-4624 Fax:	Price Quote Reference: 00130481	Price Quote Reference: 00130481	Price Quote Reference: 00130481	Price Quote Reference: 00130481	Price Quote Reference: 00130481
Requested Due Date/Time: Standard	Project Name: City Terrace	Project Number: 2855	Price Project Manager/Sales Rep: Brian Scutts / Dawn Greer	Price Project Manager/Sales Rep: Brian Scutts / Dawn Greer	Price Project Manager/Sales Rep: Brian Scutts / Dawn Greer	Price Project Manager/Sales Rep: Brian Scutts / Dawn Greer	Price Project Manager/Sales Rep: Brian Scutts / Dawn Greer
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ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
1	Cameron Jones (Roux)	2/15/23	1422	Alex Pentikis (Roux)	2/18/23	1442	Temp in °C: Y/N Sealed Cooler: Y/N Custody: Y/N Box: Y/N
2	Alex Pentikis (Roux)	2/24/23	930	April McGuire (Roux)	2/23/23	0930	
3	April McGuire - Roux	2-24-23	1100	Gabe Blomby	2-24-23	1100	
4	Cathleen Kelly - Pacel	2-27	1519		2/27/23	1515	
5							

FC046Rev.01_03Feb2010

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6385

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PAGE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>							
Submission #: <u>23-01045</u>											
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S						
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUMMA</u> Thermometer ID: _____ Temperature: (A) <u>ROOM</u> °C / (C) <u>TEMP</u> °C		Date/Time <u>6/27/23</u> Analyst Initial <u>JDL</u>							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr*											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz. NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PIA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 504											
QT EPA 508/508.3/8081A											
QT EPA 515.1/8151A											
QT EPA 525.3											
QT EPA 525.2 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548.1											
QT EPA 549.2											
QT EPA 8015M											
QT EPA 8276C											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER		A	A	A	A	A					

Comments: _____
 Sample Numbering Completed By: ICDC Date/Time: 6/27/23 19K
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304045-01	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: AA-15-1 Sampled By: ---	Receive Date: 02/27/2023 19:00 Sampling Date: 02/23/2023 13:31 Sample Depth: --- Lab Matrix: Air Sample Type: Vapor or Air		
2304045-02	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: IA-15-1 Sampled By: ---	Receive Date: 02/27/2023 19:00 Sampling Date: 02/23/2023 13:53 Sample Depth: --- Lab Matrix: Air Sample Type: Vapor or Air		
2304045-03	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: IA-15-2 Sampled By: ---	Receive Date: 02/27/2023 19:00 Sampling Date: 02/23/2023 13:51 Sample Depth: --- Lab Matrix: Air Sample Type: Vapor or Air		
2304045-04	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: SV-15-1 Sampled By: ---	Receive Date: 02/27/2023 19:00 Sampling Date: 02/23/2023 14:36 Sample Depth: --- Lab Matrix: Air Sample Type: Vapor or Air		
2304045-05	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: SV-15-2 Sampled By: ---	Receive Date: 02/27/2023 19:00 Sampling Date: 02/23/2023 14:22 Sample Depth: --- Lab Matrix: Air Sample Type: Vapor or Air		

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304045-01		Client Sample Name: AA-15-1, 2/23/2023 1:31:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	4.1	ug/m3	5.0	0.43	EPA-TO-15	ND	J	1
Acetone	2.5	ug/m3	2.0	0.015	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.38	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.40	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.2	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	3.1	ug/m3	0.10	0.010	EPA-TO-15-SIM	ND	A01	2

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Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304045-01		Client Sample Name: AA-15-1, 2/23/2023 1:31:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	4.8	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.11	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	1.7	ug/m3	2.0	0.32	EPA-TO-15	ND	J	1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304045-01		Client Sample Name: AA-15-1, 2/23/2023 1:31:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	0.49	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	0.59	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.63	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
p- & m-Xylenes	0.38	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.14	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1
Total Xylenes	0.52	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	97.3	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	92.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	95.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304045-01		Client Sample Name: AA-15-1, 2/23/2023 1:31:00PM							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/17/23 13:06	03/18/23 06:54	BEP	MS-A2	1	B162153	EPA TO-15	
2	EPA-TO-15-SIM	02/28/23 13:11	02/28/23 22:51	BEP	MS-A1	2	B160945	EPA TO-15	
3	EPA-TO-15-SIM	02/28/23 13:11	02/28/23 21:06	BEP	MS-A1	1	B160945	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304045-01	Client Sample Name: AA-15-1, 2/23/2023 1:31:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	3.7	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/20/23 08:27	03/20/23 14:48	RMK	GC-A1	1	B162267	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304045-02		Client Sample Name: IA-15-1, 2/23/2023 1:53:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	48	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	24	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.38	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.40	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.2	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.8	ug/m3	1.0	0.10	EPA-TO-15-SIM	ND	A01	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304045-02		Client Sample Name: IA-15-1, 2/23/2023 1:53:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	150	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	0.90	ug/m3	2.0	0.33	EPA-TO-15	ND	J	1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.13	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	27	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.0	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304045-02		Client Sample Name: IA-15-1, 2/23/2023 1:53:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	0.53	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	0.61	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.2	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
p- & m-Xylenes	0.41	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.15	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1
Total Xylenes	0.56	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	98.5	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	87.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	95.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304045-02		Client Sample Name: IA-15-1, 2/23/2023 1:53:00PM							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/17/23 13:06	03/18/23 07:37	BEP	MS-A2	1	B162153	EPA TO-15	
2	EPA-TO-15-SIM	02/28/23 13:11	02/28/23 23:22	BEP	MS-A1	20	B160945	EPA TO-15	
3	EPA-TO-15-SIM	02/28/23 13:11	02/28/23 21:42	BEP	MS-A1	1	B160945	EPA TO-15	

DCN = Data Continuation Number

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Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304045-02	Client Sample Name: IA-15-1, 2/23/2023 1:53:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	5.5	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/20/23 08:27	03/20/23 15:49	RMK	GC-A1	1	B162267	No Prep

DCN = Data Continuation Number

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 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304045-03		Client Sample Name: IA-15-2, 2/23/2023 1:51:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	42	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	30	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.38	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.39	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.2	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	3.4	ug/m3	1.0	0.10	EPA-TO-15-SIM	ND	A01	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304045-03		Client Sample Name: IA-15-2, 2/23/2023 1:51:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	180	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	1.0	ug/m3	2.0	0.33	EPA-TO-15	ND	J	1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.13	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	32	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304045-03		Client Sample Name: IA-15-2, 2/23/2023 1:51:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	0.57	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	0.64	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.2	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
p- & m-Xylenes	0.42	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.15	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1
Total Xylenes	0.57	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	97.9	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	87.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	96.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304045-03		Client Sample Name: IA-15-2, 2/23/2023 1:51:00PM							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/17/23 13:06	03/18/23 08:22	BEP	MS-A2	1	B162153	EPA TO-15	
2	EPA-TO-15-SIM	02/28/23 13:11	02/28/23 23:52	BEP	MS-A1	20	B160945	EPA TO-15	
3	EPA-TO-15-SIM	02/28/23 13:11	02/28/23 22:19	BEP	MS-A1	1	B160945	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304045-03	Client Sample Name: IA-15-2, 2/23/2023 1:51:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	24	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/20/23 08:27	03/20/23 16:09	RMK	GC-A1	1	B162267	No Prep

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304045-04		Client Sample Name: SV-15-1, 2/23/2023 2:36:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	130	ug/m3	8.0	0.68	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Benzene	12	ug/m3	3.2	0.33	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.41	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.2	0.75	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.2	0.35	EPA-TO-15	ND	A01	1
Carbon disulfide	12	ug/m3	3.2	0.30	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.2	0.84	EPA-TO-15	ND	A01	1
Chloroform	11	ug/m3	8.0	0.86	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	3.2	0.33	EPA-TO-15	ND	A01	1
Cyclohexane	2.0	ug/m3	3.2	0.60	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	8.0	0.68	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.0	0.92	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.0	0.49	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.4	ug/m3	8.0	0.72	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.0	0.37	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.0	0.41	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.0	0.49	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.2	0.51	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.0	0.51	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.0	0.48	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.0	1.4	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.0	3.2	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304045-04		Client Sample Name: SV-15-1, 2/23/2023 2:36:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	82	ug/m3	3.2	0.67	EPA-TO-15	ND	A01	1
Ethyl acetate	3.7	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
Ethylbenzene	5.4	ug/m3	8.0	0.51	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	1.2	ug/m3	8.0	0.48	EPA-TO-15	ND	J,A01	1
n-Heptane	19	ug/m3	3.2	0.54	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	1
Hexane	10	ug/m3	8.0	0.32	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ug/m3	8.0	0.46	EPA-TO-15	ND	A01	1
Isopropyl alcohol	47	ug/m3	3.2	0.51	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.64	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	6.3	ug/m3	3.2	0.30	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	1.5	ug/m3	8.0	0.41	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Propylene	9.4	ug/m3	3.2	0.40	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	8.0	0.38	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.0	0.75	EPA-TO-15	ND	A01	1
Tetrachloroethene	1.4	ug/m3	3.2	0.80	EPA-TO-15	ND	J,A01	1
Tetrahydrofuran	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Toluene	23	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.0	0.62	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.0	0.97	EPA-TO-15	ND	A01	1
Trichloroethene	1.2	ug/m3	3.2	0.86	EPA-TO-15	ND	J,A01	1
Trichlorofluoromethane	1.6	ug/m3	8.0	0.75	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.0	0.87	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	2.0	ug/m3	8.0	0.64	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.2	0.62	EPA-TO-15	ND	A01	1
p- & m-Xylenes	19	ug/m3	8.0	0.97	EPA-TO-15	ND	A01	1
o-Xylene	5.2	ug/m3	8.0	0.48	EPA-TO-15	ND	J,A01	1
Total Xylenes	24	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	89.8	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304045-04	Client Sample Name: SV-15-1, 2/23/2023 2:36:00PM
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	02/28/23 13:55	03/01/23 10:32	BEP	MS-A2	1.590	B160936 EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304045-05		Client Sample Name: SV-15-2, 2/23/2023 2:22:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	93	ug/m3	8.0	0.69	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Benzene	12	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.42	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.2	0.75	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.2	0.35	EPA-TO-15	ND	A01	1
Carbon disulfide	9.8	ug/m3	3.2	0.30	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.2	0.85	EPA-TO-15	ND	A01	1
Chloroform	3.3	ug/m3	8.0	0.86	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	1
Cyclohexane	1.3	ug/m3	3.2	0.61	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	8.0	0.69	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.0	0.93	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.0	0.50	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.5	ug/m3	8.0	0.72	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.0	0.37	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.0	0.42	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.0	0.50	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.2	0.51	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.0	0.51	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.0	0.48	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.0	1.5	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.0	3.2	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304045-05		Client Sample Name: SV-15-2, 2/23/2023 2:22:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	84	ug/m3	3.2	0.67	EPA-TO-15	ND	A01	1
Ethyl acetate	2.9	ug/m3	3.2	0.53	EPA-TO-15	ND	J,A01	1
Ethylbenzene	4.2	ug/m3	8.0	0.51	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	3.5	ug/m3	8.0	0.48	EPA-TO-15	ND	J,A01	1
n-Heptane	11	ug/m3	3.2	0.54	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	1
Hexane	6.5	ug/m3	8.0	0.32	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	8.0	0.46	EPA-TO-15	ND	A01	1
Isopropyl alcohol	57	ug/m3	3.2	0.51	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.64	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	4.4	ug/m3	3.2	0.30	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	0.79	ug/m3	8.0	0.42	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Propylene	1.2	ug/m3	3.2	0.40	EPA-TO-15	ND	J,A01	1
Styrene	ND	ug/m3	8.0	0.38	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.0	0.75	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.2	0.80	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Toluene	16	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.0	0.62	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.0	0.98	EPA-TO-15	ND	A01	1
Trichloroethene	1.3	ug/m3	3.2	0.86	EPA-TO-15	ND	J,A01	1
Trichlorofluoromethane	1.5	ug/m3	8.0	0.75	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.0	0.88	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	5.6	ug/m3	8.0	0.64	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	1.7	ug/m3	8.0	0.64	EPA-TO-15	ND	J,A01	1
Vinyl acetate	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.2	0.62	EPA-TO-15	ND	A01	1
p- & m-Xylenes	20	ug/m3	8.0	0.98	EPA-TO-15	ND	A01	1
o-Xylene	6.5	ug/m3	8.0	0.48	EPA-TO-15	ND	J,A01	1
Total Xylenes	27	ug/m3	16	1.5	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	90.2	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304045-05	Client Sample Name: SV-15-2, 2/23/2023 2:22:00PM
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	02/28/23 13:55	03/01/23 11:15	BEP	MS-A2	1.600	B160936 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B160936							
Acetone	B160936-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B160936-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B160936-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B160936-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B160936-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B160936-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B160936-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B160936-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B160936-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B160936-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B160936-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B160936-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B160936-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B160936-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B160936-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B160936-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B160936-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B160936-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B160936-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B160936-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B160936-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B160936-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B160936-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B160936-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B160936-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B160936-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B160936-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B160936-BLK1	ND	ug/m3	2.0	0.42		1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B160936							
Ethyl acetate	B160936-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B160936-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B160936-BLK1	ND	ug/m3	10	1.5		1
Hexane	B160936-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B160936-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B160936-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B160936-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B160936-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B160936-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B160936-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B160936-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B160936-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B160936-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B160936-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B160936-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B160936-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B160936-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B160936-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B160936-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B160936-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B160936-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B160936-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B160936-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B160936-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B160936-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B160936-BLK1	92.0	%	70 - 130 (LCL - UCL)			1
QC Batch ID: B160945							

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B160945							
Acetone	B160945-BLK1	ND	ug/m3	1.0	0.0075		2
Benzene	B160945-BLK1	ND	ug/m3	0.050	0.0032		2
Benzyl chloride	B160945-BLK1	ND	ug/m3	0.50	0.0052		2
Carbon tetrachloride	B160945-BLK1	ND	ug/m3	0.20	0.0063		2
Chlorobenzene	B160945-BLK1	ND	ug/m3	0.10	0.0079		2
Chloroform	B160945-BLK1	ND	ug/m3	0.050	0.0058		2
1,2-Dibromoethane	B160945-BLK1	ND	ug/m3	0.20	0.014		2
1,2-Dichlorobenzene	B160945-BLK1	ND	ug/m3	0.20	0.011		2
1,3-Dichlorobenzene	B160945-BLK1	ND	ug/m3	0.20	0.013		2
1,4-Dichlorobenzene	B160945-BLK1	ND	ug/m3	0.20	0.016		2
Dichlorodifluoromethane	B160945-BLK1	ND	ug/m3	0.050	0.0052		2
1,1-Dichloroethane	B160945-BLK1	ND	ug/m3	0.050	0.0041		2
1,2-Dichloroethane	B160945-BLK1	ND	ug/m3	0.10	0.0046		2
1,1-Dichloroethene	B160945-BLK1	ND	ug/m3	0.050	0.0078		2
cis-1,2-Dichloroethene	B160945-BLK1	ND	ug/m3	0.050	0.0044		2
trans-1,2-Dichloroethene	B160945-BLK1	ND	ug/m3	0.050	0.0075		2
trans-1,3-Dichloropropene	B160945-BLK1	ND	ug/m3	0.050	0.013		2
1,1-Difluoroethane	B160945-BLK1	ND	ug/m3	5.0	0.0027		2
Ethylbenzene	B160945-BLK1	ND	ug/m3	0.050	0.017		2
Methylene chloride	B160945-BLK1	ND	ug/m3	0.20	0.0077		2
Tetrachloroethene	B160945-BLK1	ND	ug/m3	0.10	0.011		2
Toluene	B160945-BLK1	ND	ug/m3	0.10	0.0062		2
1,1,1-Trichloroethane	B160945-BLK1	ND	ug/m3	0.10	0.0055		2
1,1,2-Trichloroethane	B160945-BLK1	ND	ug/m3	0.10	0.0055		2
Trichloroethene	B160945-BLK1	ND	ug/m3	0.10	0.0095		2
Trichlorofluoromethane	B160945-BLK1	ND	ug/m3	0.050	0.0057		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B160945-BLK1	ND	ug/m3	0.10	0.0078		2
Vinyl chloride	B160945-BLK1	ND	ug/m3	0.020	0.0046		2
p- & m-Xylenes	B160945-BLK1	ND	ug/m3	0.050	0.0082		2
o-Xylene	B160945-BLK1	ND	ug/m3	0.050	0.0044		2
Total Xylenes	B160945-BLK1	ND	ug/m3	0.10	0.013		2
4-Bromofluorobenzene (Surrogate)	B160945-BLK1	87.6	%	50 - 150 (LCL - UCL)			2
QC Batch ID: B162153							

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Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162153							
Acetone	B162153-BLK1	ND	ug/m3	5.0	0.43		3
Acrylonitrile	B162153-BLK1	ND	ug/m3	2.0	0.27		3
Allyl chloride	B162153-BLK1	ND	ug/m3	2.0	0.28		3
Benzene	B162153-BLK1	ND	ug/m3	2.0	0.21		3
Benzyl chloride	B162153-BLK1	ND	ug/m3	10	0.26		3
Bromodichloromethane	B162153-BLK1	ND	ug/m3	5.0	0.45		3
Bromoform	B162153-BLK1	ND	ug/m3	10	0.86		3
Bromomethane	B162153-BLK1	ND	ug/m3	2.0	0.47		3
1,3-Butadiene	B162153-BLK1	ND	ug/m3	2.0	0.22		3
Carbon disulfide	B162153-BLK1	ND	ug/m3	2.0	0.19		3
Carbon tetrachloride	B162153-BLK1	ND	ug/m3	5.0	0.45		3
Chlorobenzene	B162153-BLK1	ND	ug/m3	5.0	0.40		3
Chloroethane	B162153-BLK1	ND	ug/m3	2.0	0.53		3
Chloroform	B162153-BLK1	ND	ug/m3	5.0	0.54		3
Chloromethane	B162153-BLK1	ND	ug/m3	2.0	0.21		3
Cyclohexane	B162153-BLK1	ND	ug/m3	2.0	0.38		3
Dibromochloromethane	B162153-BLK1	ND	ug/m3	5.0	0.43		3
1,2-Dibromoethane	B162153-BLK1	ND	ug/m3	5.0	0.58		3
1,2-Dichlorobenzene	B162153-BLK1	ND	ug/m3	5.0	0.50		3
1,3-Dichlorobenzene	B162153-BLK1	ND	ug/m3	5.0	0.31		3
1,4-Dichlorobenzene	B162153-BLK1	ND	ug/m3	5.0	0.50		3
Dichlorodifluoromethane	B162153-BLK1	ND	ug/m3	5.0	0.45		3
1,1-Dichloroethane	B162153-BLK1	ND	ug/m3	5.0	0.23		3
1,2-Dichloroethane	B162153-BLK1	ND	ug/m3	5.0	0.26		3
1,1-Dichloroethene	B162153-BLK1	ND	ug/m3	5.0	0.31		3
cis-1,2-Dichloroethene	B162153-BLK1	ND	ug/m3	2.0	0.32		3
trans-1,2-Dichloroethene	B162153-BLK1	ND	ug/m3	2.0	0.27		3
1,2-Dichloropropane	B162153-BLK1	ND	ug/m3	5.0	0.32		3
cis-1,3-Dichloropropene	B162153-BLK1	ND	ug/m3	5.0	0.30		3
trans-1,3-Dichloropropene	B162153-BLK1	ND	ug/m3	5.0	0.40		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162153-BLK1	ND	ug/m3	5.0	0.91		3
1,1-Difluoroethane	B162153-BLK1	ND	ug/m3	5.0	2.0		3
1,4-Dioxane	B162153-BLK1	ND	ug/m3	2.0	0.33		3
Ethanol	B162153-BLK1	ND	ug/m3	2.0	0.42		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162153							
Ethyl acetate	B162153-BLK1	ND	ug/m3	2.0	0.33		3
Ethylbenzene	B162153-BLK1	ND	ug/m3	5.0	0.32		3
1-Ethyl-4-methylbenzene	B162153-BLK1	ND	ug/m3	5.0	0.30		3
n-Heptane	B162153-BLK1	ND	ug/m3	2.0	0.34		3
Hexachlorobutadiene	B162153-BLK1	ND	ug/m3	10	1.5		3
Hexane	B162153-BLK1	ND	ug/m3	5.0	0.20		3
2-Hexanone	B162153-BLK1	ND	ug/m3	5.0	0.29		3
Isopropyl alcohol	B162153-BLK1	ND	ug/m3	2.0	0.32		3
Methylene chloride	B162153-BLK1	ND	ug/m3	10	0.40		3
Methyl ethyl ketone	B162153-BLK1	ND	ug/m3	2.0	0.19		3
Methyl isobutyl ketone	B162153-BLK1	ND	ug/m3	5.0	0.26		3
Methyl t-butyl ether	B162153-BLK1	ND	ug/m3	2.0	0.28		3
Propylene	B162153-BLK1	ND	ug/m3	2.0	0.25	C01	3
Styrene	B162153-BLK1	ND	ug/m3	5.0	0.24		3
1,1,2,2-Tetrachloroethane	B162153-BLK1	ND	ug/m3	5.0	0.47		3
Tetrachloroethene	B162153-BLK1	ND	ug/m3	2.0	0.50		3
Tetrahydrofuran	B162153-BLK1	ND	ug/m3	2.0	0.27		3
Toluene	B162153-BLK1	ND	ug/m3	2.0	0.27		3
1,2,4-Trichlorobenzene	B162153-BLK1	ND	ug/m3	10	0.82		3
1,1,1-Trichloroethane	B162153-BLK1	ND	ug/m3	5.0	0.39		3
1,1,2-Trichloroethane	B162153-BLK1	ND	ug/m3	5.0	0.61		3
Trichloroethene	B162153-BLK1	ND	ug/m3	2.0	0.54		3
Trichlorofluoromethane	B162153-BLK1	ND	ug/m3	5.0	0.47		3
1,1,2-Trichloro-1,2,2-trifluoroethane	B162153-BLK1	ND	ug/m3	5.0	0.55		3
1,2,4-Trimethylbenzene	B162153-BLK1	ND	ug/m3	5.0	0.40		3
1,3,5-Trimethylbenzene	B162153-BLK1	ND	ug/m3	5.0	0.40		3
Vinyl acetate	B162153-BLK1	ND	ug/m3	2.0	0.33		3
Vinyl chloride	B162153-BLK1	ND	ug/m3	2.0	0.39		3
p- & m-Xylenes	B162153-BLK1	ND	ug/m3	5.0	0.61		3
o-Xylene	B162153-BLK1	ND	ug/m3	5.0	0.30		3
Total Xylenes	B162153-BLK1	ND	ug/m3	10	0.91		3
4-Bromofluorobenzene (Surrogate)	B162153-BLK1	95.5	%	70 - 130 (LCL - UCL)			3

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Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1

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 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B160936											
Benzene	B160936-BS1	LCS	14.888	15.974	ug/m3	93.2		70 - 130			1
	B160936-BSD1	LCSD	14.664	15.974	ug/m3	91.8	1.5	70 - 130	30		2
Chloroform	B160936-BS1	LCS	24.999	24.413	ug/m3	102		70 - 130			1
	B160936-BSD1	LCSD	24.999	24.413	ug/m3	102	0	70 - 130	30		2
Ethylbenzene	B160936-BS1	LCS	21.971	21.711	ug/m3	101		70 - 130			1
	B160936-BSD1	LCSD	21.884	21.711	ug/m3	101	0.4	70 - 130	30		2
Tetrachloroethene	B160936-BS1	LCS	36.015	33.913	ug/m3	106		70 - 130			1
	B160936-BSD1	LCSD	36.015	33.913	ug/m3	106	0	70 - 130	30		2
Toluene	B160936-BS1	LCS	19.784	18.842	ug/m3	105		70 - 130			1
	B160936-BSD1	LCSD	19.407	18.842	ug/m3	103	1.9	70 - 130	30		2
Trichloroethene	B160936-BS1	LCS	28.051	26.869	ug/m3	104		70 - 130			1
	B160936-BSD1	LCSD	27.943	26.869	ug/m3	104	0.4	70 - 130	30		2
Trichlorofluoromethane	B160936-BS1	LCS	30.901	28.092	ug/m3	110		70 - 130			1
	B160936-BSD1	LCSD	31.238	28.092	ug/m3	111	1.1	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B160936-BS1	LCS	37.782	38.318	ug/m3	98.6		70 - 130			1
	B160936-BSD1	LCSD	37.322	38.318	ug/m3	97.4	1.2	70 - 130	30		2
p- & m-Xylenes	B160936-BS1	LCS	47.069	43.421	ug/m3	108		70 - 130			1
	B160936-BSD1	LCSD	47.242	43.421	ug/m3	109	0.4	70 - 130	30		2
o-Xylene	B160936-BS1	LCS	23.751	21.711	ug/m3	109		70 - 130			1
	B160936-BSD1	LCSD	23.925	21.711	ug/m3	110	0.7	70 - 130	30		2
Total Xylenes	B160936-BS1	LCS	70.820	65.132	ug/m3	109		70 - 130			1
	B160936-BSD1	LCSD	71.167	65.132	ug/m3	109	0.5	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B160936-BS1	LCS	73.6	71.6	ug/m3	103		70 - 130			1
	B160936-BSD1	LCSD	74.4	71.6	ug/m3	104	1.0	70 - 130			2
QC Batch ID: B160945											
Benzene	B160945-BS1	LCS	0.29865	0.31948	ug/m3	93.5		70 - 130			3
	B160945-BSD1	LCSD	0.29865	0.31948	ug/m3	93.5	0	70 - 130	30		4
Benzyl chloride	B160945-BS1	LCS	0.39901	0.51772	ug/m3	77.1		70 - 130		J	3
	B160945-BSD1	LCSD	0.37794	0.51772	ug/m3	73.0	5.4	70 - 130	30	J	4
Carbon tetrachloride	B160945-BS1	LCS	0.56182	0.62913	ug/m3	89.3		70 - 130			3
	B160945-BSD1	LCSD	0.55571	0.62913	ug/m3	88.3	1.1	70 - 130	30		4
Chlorobenzene	B160945-BS1	LCS	0.44673	0.46036	ug/m3	97.0		70 - 130			3
	B160945-BSD1	LCSD	0.44277	0.46036	ug/m3	96.2	0.9	70 - 130	30		4
Chloroform	B160945-BS1	LCS	0.47614	0.48825	ug/m3	97.5		70 - 130			3
	B160945-BSD1	LCSD	0.48122	0.48825	ug/m3	98.6	1.1	70 - 130	30		4
1,2-Dibromoethane	B160945-BS1	LCS	0.74607	0.76835	ug/m3	97.1		70 - 130			3
	B160945-BSD1	LCSD	0.73377	0.76835	ug/m3	95.5	1.7	70 - 130	30		4

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Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B160945											
1,2-Dichlorobenzene	B160945-BS1	LCS	0.59961	0.60124	ug/m3	99.7		70 - 130			3
	B160945-BSD1	LCSD	0.57670	0.60124	ug/m3	95.9	3.9	70 - 130	30		4
1,3-Dichlorobenzene	B160945-BS1	LCS	0.62414	0.60124	ug/m3	104		70 - 130			3
	B160945-BSD1	LCSD	0.56438	0.60124	ug/m3	93.9	10.1	70 - 130	30		4
1,4-Dichlorobenzene	B160945-BS1	LCS	0.54911	0.60124	ug/m3	91.3		70 - 130			3
	B160945-BSD1	LCSD	0.62480	0.60124	ug/m3	104	12.9	70 - 130	30		4
1,1-Dichloroethane	B160945-BS1	LCS	0.39397	0.40474	ug/m3	97.3		70 - 130			3
	B160945-BSD1	LCSD	0.39665	0.40474	ug/m3	98.0	0.7	70 - 130	30		4
1,2-Dichloroethane	B160945-BS1	LCS	0.37916	0.40474	ug/m3	93.7		70 - 130			3
	B160945-BSD1	LCSD	0.37738	0.40474	ug/m3	93.2	0.5	70 - 130	30		4
1,1-Dichloroethene	B160945-BS1	LCS	0.38535	0.39649	ug/m3	97.2		70 - 130			3
	B160945-BSD1	LCSD	0.38682	0.39649	ug/m3	97.6	0.4	70 - 130	30		4
cis-1,2-Dichloroethene	B160945-BS1	LCS	0.37231	0.39649	ug/m3	93.9		70 - 130			3
	B160945-BSD1	LCSD	0.37243	0.39649	ug/m3	93.9	0.0	70 - 130	30		4
Methylene chloride	B160945-BS1	LCS	0.37173	0.34737	ug/m3	107		70 - 130			3
	B160945-BSD1	LCSD	0.37593	0.34737	ug/m3	108	1.1	70 - 130	30		4
Tetrachloroethene	B160945-BS1	LCS	0.66903	0.67825	ug/m3	98.6		70 - 130			3
	B160945-BSD1	LCSD	0.66333	0.67825	ug/m3	97.8	0.9	70 - 130	30		4
Toluene	B160945-BS1	LCS	0.35518	0.37684	ug/m3	94.2		70 - 130			3
	B160945-BSD1	LCSD	0.35303	0.37684	ug/m3	93.7	0.6	70 - 130	30		4
1,1,1-Trichloroethane	B160945-BS1	LCS	0.51632	0.54562	ug/m3	94.6		70 - 130			3
	B160945-BSD1	LCSD	0.51201	0.54562	ug/m3	93.8	0.8	70 - 130	30		4
1,1,2-Trichloroethane	B160945-BS1	LCS	0.53143	0.54562	ug/m3	97.4		70 - 130			3
	B160945-BSD1	LCSD	0.52821	0.54562	ug/m3	96.8	0.6	70 - 130	30		4
Trichloroethene	B160945-BS1	LCS	0.52980	0.53737	ug/m3	98.6		70 - 130			3
	B160945-BSD1	LCSD	0.52458	0.53737	ug/m3	97.6	1.0	70 - 130	30		4
Vinyl chloride	B160945-BS1	LCS	0.29603	0.25562	ug/m3	116		70 - 130			3
	B160945-BSD1	LCSD	0.31226	0.25562	ug/m3	122	5.3	70 - 130	30		4
p- & m-Xylenes	B160945-BS1	LCS	0.85622	0.86843	ug/m3	98.6		70 - 130			3
	B160945-BSD1	LCSD	0.84372	0.86843	ug/m3	97.2	1.5	70 - 130	30		4
o-Xylene	B160945-BS1	LCS	0.42735	0.43421	ug/m3	98.4		70 - 130			3
	B160945-BSD1	LCSD	0.42275	0.43421	ug/m3	97.4	1.1	70 - 130	30		4
Total Xylenes	B160945-BS1	LCS	1.2836	1.3026	ug/m3	98.5		70 - 130			3
	B160945-BSD1	LCSD	1.2665	1.3026	ug/m3	97.2	1.3	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B160945-BS1	LCS	3.48	3.58	ug/m3	97.3		50 - 150			3
	B160945-BSD1	LCSD	3.46	3.58	ug/m3	96.7	0.6	50 - 150			4

QC Batch ID: B162153

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 Project: City Terrace
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 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162153											
Benzene	B162153-BS1	LCS	14.313	15.974	ug/m3	89.6		70 - 130			5
	B162153-BSD1	LCSD	14.472	15.974	ug/m3	90.6	1.1	70 - 130	30		6
Chloroform	B162153-BS1	LCS	21.190	24.413	ug/m3	86.8		70 - 130			5
	B162153-BSD1	LCSD	21.239	24.413	ug/m3	87.0	0.2	70 - 130	30		6
Ethylbenzene	B162153-BS1	LCS	19.887	21.711	ug/m3	91.6		70 - 130			5
	B162153-BSD1	LCSD	19.670	21.711	ug/m3	90.6	1.1	70 - 130	30		6
Tetrachloroethene	B162153-BS1	LCS	30.725	33.913	ug/m3	90.6		70 - 130			5
	B162153-BSD1	LCSD	30.996	33.913	ug/m3	91.4	0.9	70 - 130	30		6
Toluene	B162153-BS1	LCS	17.448	18.842	ug/m3	92.6		70 - 130			5
	B162153-BSD1	LCSD	17.410	18.842	ug/m3	92.4	0.2	70 - 130	30		6
Trichloroethene	B162153-BS1	LCS	24.665	26.869	ug/m3	91.8		70 - 130			5
	B162153-BSD1	LCSD	24.397	26.869	ug/m3	90.8	1.1	70 - 130	30		6
Trichlorofluoromethane	B162153-BS1	LCS	24.046	28.092	ug/m3	85.6		70 - 130			5
	B162153-BSD1	LCSD	24.496	28.092	ug/m3	87.2	1.9	70 - 130	30		6
1,1,2-Trichloro-1,2,2-trifluoroethane	B162153-BS1	LCS	33.797	38.318	ug/m3	88.2		70 - 130			5
	B162153-BSD1	LCSD	34.256	38.318	ug/m3	89.4	1.4	70 - 130	30		6
p- & m-Xylenes	B162153-BS1	LCS	40.946	43.421	ug/m3	94.3		70 - 130			5
	B162153-BSD1	LCSD	40.425	43.421	ug/m3	93.1	1.3	70 - 130	30		6
o-Xylene	B162153-BS1	LCS	20.104	21.711	ug/m3	92.6		70 - 130			5
	B162153-BSD1	LCSD	20.017	21.711	ug/m3	92.2	0.4	70 - 130	30		6
Total Xylenes	B162153-BS1	LCS	61.050	65.132	ug/m3	93.7		70 - 130			5
	B162153-BSD1	LCSD	60.442	65.132	ug/m3	92.8	1.0	70 - 130	30		6
4-Bromofluorobenzene (Surrogate)	B162153-BS1	LCS	73.6	71.6	ug/m3	103		70 - 130			5
	B162153-BSD1	LCSD	73.9	71.6	ug/m3	103	0.3	70 - 130			6

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Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23	16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23	16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23	16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23	16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23	16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23	16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23	16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23	16:04	BEP	MS-A1	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23	14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23	14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23	14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23	14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23	14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23	14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23	14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23	14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23	14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23	14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23	14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23	14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23	14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23	14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23	14:31	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23	15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23	15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23	15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23	15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23	15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23	15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23	15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23	15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23	15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23	15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23	15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23	15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23	15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23	15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23	15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23	15:11	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B162267

Methane (CH4)	B162267-BLK1	ND	ppmv	2.0	1.8		1
---------------	--------------	----	------	-----	-----	--	---

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162267-BLK1	PB	ASTM-D1946	03/20/23	03/20/23 12:26	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162267											
Methane (CH4)	B162267-BS1	LCS	19441	18000	ppmv	108		70 - 130			1
	B162267-BSD1	LCSD	19386	18000	ppmv	108	0.3	70 - 130	30		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162267-BS1	LCS	ASTM-D1946	03/20/23	03/20/23	11:46	RMK	GC-A1	1
2	B162267-BSD1	LCSD	ASTM-D1946	03/20/23	03/20/23	12:06	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- C01 The calibration curve did not contain the minimum number of standards.



Date of Report: 04/03/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304047
Invoice ID: B471030, B471952, B472843

Enclosed are the results of analyses for samples received by the laboratory on 2/27/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001408462

Sincerely,

A handwritten signature in black ink, appearing to be "B Schutte", written over a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to be "Stuart Buttram", written over a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY
The Chain-of-Custody is a LEGAL DOCUMENT. AI

ument

Page: 1 of 1

Section A
Required Client Information

Company: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450
Long Beach, CA 90804
Email To: amcguire@rouxinc.com
Phone: 562-448-8824 Fax:
Requested Due Date: Standard

Section B
Required Project Information

Report To: April McGuire
Company Name: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
Pace Quote Reference: 001330487 #2304047-AM
Pace Project Manager/Sales Rep: Brianna Schulte / Dawn Clinger
Pace Profile #

Section C
Invoice Information

Attention: Roux Accounts Payable (rouxinc.com)
Company Name: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
Pace Quote Reference: 001330487 #2304047-AM
Pace Project Manager/Sales Rep: Brianna Schulte / Dawn Clinger
Pace Profile #

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

ITEM #	Sample ID	Media	Flow Control Number	Summa Can Number	Canister Pressure (Final Field - psig)	Canister Pressure (Initial Field - psig)	DATE	TIME	COMMENTS
1	AA-16-1	TSB	03803	0757	-30	-4	2/22/23	1412	
2	AA-16-2	TSB	03804	0739	-30	-4	2/22/23	1412	
3	AA-16-3	TSB	13682	812	-30	-3	2/22/23	1503	
4	AA-16-4	TSB	03805	3752	-30	-5	2/22/23	1505	
5	SV-16-1	TSB	1262	10262	-27	-5	2/23/23	1529	
6	SV-16-2	TSB	1262	3028	-27	-5	2/23/23	1533	

RELINQUISHED BY / AFFILIATION **DATE** **TIME** **ACCEPTED BY / AFFILIATION** **DATE** **TIME**

Alex Perdikis (Roux) 2/22/23 1042 April McGuire Roux 2/24/23 1042

April McGuire - Roux 2/24/23 1100 Alex Perdikis 2/24/23 1100

Colby Bloomberg 2/24/23 1515 Alex Perdikis 2/24/23 1515

Colby Bloomberg 2/27/23 1900 Alex Perdikis 2/27/23 1900

SAMPLER NAME AND SIGNATURE

Alex Perdikis DATE: 2/27/23 TIME: 1900

RELINQUISHED BY / AFFILIATION **DATE** **TIME**

Alex Perdikis (Roux) 2/27/23 1900

Comments:

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6388

FCD46Rev 01, 03F, 6/2010

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PAGE ANALYTICAL		COOLER RECEIPT FORM		Page <u> </u> Of <u> </u>	
Submission #: <u>23-04047</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input type="checkbox"/> Comments: _____					
Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUMMA</u> Thermometer ID: _____		Date/Time <u>1/27/23</u>	
Temperature: (A) <u>ROOM</u> °C / (C) <u>TEMP</u> °C		Analyst Init <u>DL</u>			

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁴										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- SM										
QT EPA 518/518.3/5081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>				

Comments: _____
 Sample Numbering Completed By: TADD L Date/Time: 2/27/23 1415
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304047-01	COC Number:	---	Receive Date:	02/27/2023 19:00
	Project Number:	---	Sampling Date:	02/23/2023 14:12
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AA-16-1	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
2304047-02	COC Number:	---	Receive Date:	02/27/2023 19:00
	Project Number:	---	Sampling Date:	02/23/2023 14:12
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AA-16-1-D	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
2304047-03	COC Number:	---	Receive Date:	02/27/2023 19:00
	Project Number:	---	Sampling Date:	02/23/2023 14:08
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-16-1	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
2304047-04	COC Number:	---	Receive Date:	02/27/2023 19:00
	Project Number:	---	Sampling Date:	02/23/2023 14:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-16-2	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
2304047-05	COC Number:	---	Receive Date:	02/27/2023 19:00
	Project Number:	---	Sampling Date:	02/23/2023 15:38
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-16-1	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
2304047-06	COC Number:	---	Receive Date:	02/27/2023 19:00
	Project Number:	---	Sampling Date:	02/23/2023 15:33
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-16-2	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304047-01		Client Sample Name: AA-16-1, 2/23/2023 2:12:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	3.8	ug/m3	5.0	0.43	EPA-TO-15	ND	J	1
Acetone	2.2	ug/m3	2.0	0.015	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		3
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		3
Benzene	0.42	ug/m3	2.0	0.21	EPA-TO-15	ND	J	3
Benzene	0.42	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		4
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		3
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		4
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		3
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		3
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		3
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		3
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		3
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		3
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		4
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		3
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		4
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		3
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		3
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		4
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		3
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		3
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		3
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		4
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		3
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		4
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		3
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		4
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		3
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		4
Dichlorodifluoromethane	3.1	ug/m3	0.10	0.010	EPA-TO-15-SIM	ND	A01	2
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304047-01		Client Sample Name: AA-16-1, 2/23/2023 2:12:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		3
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		4
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		3
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		4
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		3
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		4
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		4
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		4
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		3
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		3
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		3
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		4
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		3
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		3
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		4
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		3
Ethanol	2.8	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		3
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		3
Ethylbenzene	0.12	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		4
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		3
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		3
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		3
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		3
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		3
Isopropyl alcohol	1.1	ug/m3	2.0	0.32	EPA-TO-15	ND	J	3
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		3
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		4
Methyl ethyl ketone	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		3
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		3
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID:	2304047-01	Client Sample Name:	AA-16-1, 2/23/2023 2:12:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	3	
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		3	
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		3	
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		3	
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		4	
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		3	
Toluene	0.53	ug/m3	2.0	0.27	EPA-TO-15	ND	J	3	
Toluene	0.61	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		4	
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		3	
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		3	
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		4	
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		3	
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		4	
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		3	
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		4	
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1	
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		4	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		3	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.65	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		4	
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		3	
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		3	
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		3	
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		3	
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		4	
p- & m-Xylenes	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		3	
p- & m-Xylenes	0.40	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		4	
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		3	
o-Xylene	0.14	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		4	
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		3	
Total Xylenes	0.55	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		4	
4-Bromofluorobenzene (Surrogate)	97.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2	
4-Bromofluorobenzene (Surrogate)	96.8	%	70 - 130 (LCL - UCL)		EPA-TO-15			3	
4-Bromofluorobenzene (Surrogate)	96.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			4	

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304047-01	Client Sample Name: AA-16-1, 2/23/2023 2:12:00PM
----------------------------------	---

DCN	Method	Prep Date		Run		Analyst	Instrument	Dilution	QC	
				Date/Time	Date/Time				Batch ID	
1	EPA-TO-15	03/17/23	13:06	03/18/23	12:04	BEP	MS-A2	1	B162153	EPA TO-15
2	EPA-TO-15-SIM	02/28/23	13:11	03/01/23	07:22	BEP	MS-A1	2	B160945	EPA TO-15
3	EPA-TO-15	03/17/23	13:06	03/18/23	11:19	BEP	MS-A2	1	B162153	EPA TO-15
4	EPA-TO-15-SIM	02/28/23	13:11	03/01/23	04:59	BEP	MS-A1	1	B160945	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304047-01	Client Sample Name: AA-16-1, 2/23/2023 2:12:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.3	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/20/23 08:29	03/20/23 18:52	RMK	GC-A1	1	B162298	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304047-02		Client Sample Name: AA-16-1-D, 2/23/2023 2:12:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	4.9	ug/m3	5.0	0.43	EPA-TO-15	ND	J	1
Acetone	2.9	ug/m3	2.0	0.015	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.38	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.42	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	3.2	ug/m3	0.10	0.010	EPA-TO-15-SIM	ND	A01	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304047-02		Client Sample Name: AA-16-1-D, 2/23/2023 2:12:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	2.9	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.12	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	1.2	ug/m3	2.0	0.32	EPA-TO-15	ND	J	1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304047-02		Client Sample Name: AA-16-1-D, 2/23/2023 2:12:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1	
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1	
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1	
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1	
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3	
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1	
Toluene	0.49	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1	
Toluene	0.62	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3	
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1	
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1	
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3	
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1	
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3	
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1	
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3	
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1	
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.66	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3	
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1	
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1	
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1	
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1	
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3	
p- & m-Xylenes	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1	
p- & m-Xylenes	0.42	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3	
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1	
o-Xylene	0.15	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3	
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1	
Total Xylenes	0.57	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3	
4-Bromofluorobenzene (Surrogate)	97.5	%	70 - 130 (LCL - UCL)		EPA-TO-15			1	
4-Bromofluorobenzene (Surrogate)	96.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2	
4-Bromofluorobenzene (Surrogate)	99.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3	

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304047-02		Client Sample Name: AA-16-1-D, 2/23/2023 2:12:00PM							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/17/23 13:06	03/18/23 12:50	BEP	MS-A2	1	B162153	EPA TO-15	
2	EPA-TO-15-SIM	02/28/23 13:11	03/01/23 07:54	BEP	MS-A1	2	B160945	EPA TO-15	
3	EPA-TO-15-SIM	02/28/23 13:11	03/01/23 05:35	BEP	MS-A1	1	B160945	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304047-02	Client Sample Name: AA-16-1-D, 2/23/2023 2:12:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	3.7	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/20/23 08:29	03/20/23 19:53	RMK	GC-A1	1	B162298	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304047-03		Client Sample Name: IA-16-1, 2/23/2023 2:08:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	33	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	23	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.48	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.48	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	3.1	ug/m3	2.0	0.16	EPA-TO-15-SIM	ND	A01	4
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	3.4	ug/m3	1.0	0.10	EPA-TO-15-SIM	ND	A01	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304047-03		Client Sample Name: IA-16-1, 2/23/2023 2:08:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	87	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	120	ug/m3	100	0.054	EPA-TO-15-SIM	ND	A01,S01	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	250	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	7.4	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.24	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	0.53	ug/m3	5.0	0.20	EPA-TO-15	ND	J	1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	16	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	0.77	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
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Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304047-03		Client Sample Name: IA-16-1, 2/23/2023 2:08:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	1.5	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.7	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.2	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.62	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
p- & m-Xylenes	0.75	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.27	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1
Total Xylenes	1.0	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	98.5	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	90.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	103	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304047-03	Client Sample Name: IA-16-1, 2/23/2023 2:08:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
4-Bromofluorobenzene (Surrogate)	94.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			4

DCN	Method	Prep Date		Run		Analyst	Instrument	Dilution	QC	
				Date/Time	Date/Time				Batch ID	Prep Method
1	EPA-TO-15	03/17/23	13:06	03/18/23	13:35	BEP	MS-A2	1	B162153	EPA TO-15
2	EPA-TO-15-SIM	02/28/23	13:11	03/01/23	12:50	BEP	MS-A1	20	B160945	EPA TO-15
3	EPA-TO-15-SIM	02/28/23	13:11	03/01/23	06:12	BEP	MS-A1	1	B160945	EPA TO-15
4	EPA-TO-15-SIM	02/28/23	13:11	03/01/23	08:25	BEP	MS-A1	10	B160945	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304047-03	Client Sample Name: IA-16-1, 2/23/2023 2:08:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	9.8	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/20/23 08:29	03/20/23 20:13	RMK	GC-A1	1	B162298	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304047-04		Client Sample Name: IA-16-2, 2/23/2023 2:50:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	34	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	22	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.45	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.49	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	4.2	ug/m3	2.0	0.16	EPA-TO-15-SIM	ND	A01	4
Dichlorodifluoromethane	2.0	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	3.5	ug/m3	1.0	0.10	EPA-TO-15-SIM	ND	A01	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304047-04		Client Sample Name: IA-16-2, 2/23/2023 2:50:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	110	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	160	ug/m3	100	0.054	EPA-TO-15-SIM	ND	A01,S01	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	260	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	4.3	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.20	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	17	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	0.83	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304047-04		Client Sample Name: IA-16-2, 2/23/2023 2:50:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	1.1	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.3	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.64	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
p- & m-Xylenes	0.65	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.25	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1
Total Xylenes	0.90	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	98.3	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	87.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	104	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304047-04	Client Sample Name: IA-16-2, 2/23/2023 2:50:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
4-Bromofluorobenzene (Surrogate)	94.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			4

DCN	Method	Prep Date		Run		Analyst	Instrument	Dilution	QC	
				Date/Time	Date/Time				Batch ID	Prep Method
1	EPA-TO-15	03/17/23	13:06	03/18/23	14:21	BEP	MS-A2	1	B162153	EPA TO-15
2	EPA-TO-15-SIM	02/28/23	13:11	03/01/23	13:21	BEP	MS-A1	20	B160945	EPA TO-15
3	EPA-TO-15-SIM	02/28/23	13:11	03/01/23	06:48	BEP	MS-A1	1	B160945	EPA TO-15
4	EPA-TO-15-SIM	02/28/23	13:11	03/01/23	08:55	BEP	MS-A1	10	B160945	EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304047-04	Client Sample Name: IA-16-2, 2/23/2023 2:50:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	33	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/20/23 08:29	03/20/23 20:33	RMK	GC-A1	1	B162298	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304047-05		Client Sample Name: SV-16-1, 2/23/2023 3:38:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	130	ug/m3	8.0	0.68	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Benzene	2.3	ug/m3	3.2	0.33	EPA-TO-15	ND	J,A01	1
Benzyl chloride	ND	ug/m3	16	0.41	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.2	0.75	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.2	0.35	EPA-TO-15	ND	A01	1
Carbon disulfide	0.74	ug/m3	3.2	0.30	EPA-TO-15	ND	J,A01	1
Carbon tetrachloride	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.2	0.84	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	8.0	0.86	EPA-TO-15	ND	A01	1
Chloromethane	0.95	ug/m3	3.2	0.33	EPA-TO-15	ND	J,A01	1
Cyclohexane	ND	ug/m3	3.2	0.60	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	8.0	0.68	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.0	0.92	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.0	0.49	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.6	ug/m3	8.0	0.72	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.0	0.37	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.0	0.41	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.0	0.49	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.2	0.51	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.0	0.51	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.0	0.48	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.0	1.4	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.0	3.2	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304047-05		Client Sample Name: SV-16-1, 2/23/2023 3:38:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	95	ug/m3	3.2	0.67	EPA-TO-15	ND	A01	1
Ethyl acetate	4.0	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
Ethylbenzene	2.2	ug/m3	8.0	0.51	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	0.94	ug/m3	8.0	0.48	EPA-TO-15	ND	J,A01	1
n-Heptane	0.65	ug/m3	3.2	0.54	EPA-TO-15	ND	J,A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	1
Hexane	ND	ug/m3	8.0	0.32	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ug/m3	8.0	0.46	EPA-TO-15	ND	A01	1
Isopropyl alcohol	59	ug/m3	3.2	0.51	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.64	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	5.0	ug/m3	3.2	0.30	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	1.3	ug/m3	8.0	0.41	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.2	0.40	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	8.0	0.38	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.0	0.75	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.2	0.80	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Toluene	4.9	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.0	0.62	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.0	0.97	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.2	0.86	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.4	ug/m3	8.0	0.75	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.0	0.87	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.5	ug/m3	8.0	0.64	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.2	0.62	EPA-TO-15	ND	A01	1
p- & m-Xylenes	8.6	ug/m3	8.0	0.97	EPA-TO-15	ND	A01	1
o-Xylene	2.8	ug/m3	8.0	0.48	EPA-TO-15	ND	J,A01	1
Total Xylenes	11	ug/m3	16	1.4	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	92.7	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304047-05	Client Sample Name: SV-16-1, 2/23/2023 3:38:00PM
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15	02/28/23 13:55	03/01/23 13:24		BEP	MS-A2	1.590	B160936	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304047-06		Client Sample Name: SV-16-2, 2/23/2023 3:33:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	170	ug/m3	8.0	0.69	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Benzene	8.7	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.42	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.2	0.75	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.2	0.35	EPA-TO-15	ND	A01	1
Carbon disulfide	10	ug/m3	3.2	0.30	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.2	0.85	EPA-TO-15	ND	A01	1
Chloroform	1.0	ug/m3	8.0	0.86	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	1
Cyclohexane	1.3	ug/m3	3.2	0.61	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	8.0	0.69	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.0	0.93	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.0	0.50	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.1	ug/m3	8.0	0.72	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.0	0.37	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.0	0.42	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.0	0.50	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.2	0.51	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.0	0.51	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.0	0.48	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.0	1.5	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.0	3.2	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304047-06		Client Sample Name: SV-16-2, 2/23/2023 3:33:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	150	ug/m3	3.2	0.67	EPA-TO-15	ND	A01	1
Ethyl acetate	4.6	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1
Ethylbenzene	3.3	ug/m3	8.0	0.51	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	1.3	ug/m3	8.0	0.48	EPA-TO-15	ND	J,A01	1
n-Heptane	5.0	ug/m3	3.2	0.54	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	1
Hexane	8.3	ug/m3	8.0	0.32	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ug/m3	8.0	0.46	EPA-TO-15	ND	A01	1
Isopropyl alcohol	110	ug/m3	3.2	0.51	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.64	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	3.2	ug/m3	3.2	0.30	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	0.98	ug/m3	8.0	0.42	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Propylene	4.9	ug/m3	3.2	0.40	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	8.0	0.38	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.0	0.75	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.2	0.80	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Toluene	5.1	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.0	0.62	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.0	0.98	EPA-TO-15	ND	A01	1
Trichloroethene	2.0	ug/m3	3.2	0.86	EPA-TO-15	ND	J,A01	1
Trichlorofluoromethane	1.5	ug/m3	8.0	0.75	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.0	0.88	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	2.1	ug/m3	8.0	0.64	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.2	0.62	EPA-TO-15	ND	A01	1
p- & m-Xylenes	13	ug/m3	8.0	0.98	EPA-TO-15	ND	A01	1
o-Xylene	4.2	ug/m3	8.0	0.48	EPA-TO-15	ND	J,A01	1
Total Xylenes	18	ug/m3	16	1.5	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	92.6	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304047-06	Client Sample Name: SV-16-2, 2/23/2023 3:33:00PM
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15	02/28/23 13:55	03/01/23 14:10		BEP	MS-A2	1.600	B160936	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B160936							
Acetone	B160936-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B160936-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B160936-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B160936-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B160936-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B160936-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B160936-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B160936-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B160936-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B160936-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B160936-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B160936-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B160936-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B160936-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B160936-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B160936-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B160936-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B160936-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B160936-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B160936-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B160936-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B160936-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B160936-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B160936-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B160936-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B160936-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B160936-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B160936-BLK1	ND	ug/m3	2.0	0.42		1

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B160936							
Ethyl acetate	B160936-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B160936-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B160936-BLK1	ND	ug/m3	10	1.5		1
Hexane	B160936-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B160936-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B160936-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B160936-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B160936-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B160936-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B160936-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B160936-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B160936-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B160936-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B160936-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B160936-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B160936-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B160936-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B160936-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B160936-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B160936-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B160936-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B160936-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B160936-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B160936-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B160936-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B160936-BLK1	92.0	%	70 - 130 (LCL - UCL)			1
QC Batch ID: B160945							

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Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B160945							
Acetone	B160945-BLK1	ND	ug/m3	1.0	0.0075		2
Benzene	B160945-BLK1	ND	ug/m3	0.050	0.0032		2
Benzyl chloride	B160945-BLK1	ND	ug/m3	0.50	0.0052		2
Carbon tetrachloride	B160945-BLK1	ND	ug/m3	0.20	0.0063		2
Chlorobenzene	B160945-BLK1	ND	ug/m3	0.10	0.0079		2
Chloroform	B160945-BLK1	ND	ug/m3	0.050	0.0058		2
1,2-Dibromoethane	B160945-BLK1	ND	ug/m3	0.20	0.014		2
1,2-Dichlorobenzene	B160945-BLK1	ND	ug/m3	0.20	0.011		2
1,3-Dichlorobenzene	B160945-BLK1	ND	ug/m3	0.20	0.013		2
1,4-Dichlorobenzene	B160945-BLK1	ND	ug/m3	0.20	0.016		2
Dichlorodifluoromethane	B160945-BLK1	ND	ug/m3	0.050	0.0052		2
1,1-Dichloroethane	B160945-BLK1	ND	ug/m3	0.050	0.0041		2
1,2-Dichloroethane	B160945-BLK1	ND	ug/m3	0.10	0.0046		2
1,1-Dichloroethene	B160945-BLK1	ND	ug/m3	0.050	0.0078		2
cis-1,2-Dichloroethene	B160945-BLK1	ND	ug/m3	0.050	0.0044		2
trans-1,2-Dichloroethene	B160945-BLK1	ND	ug/m3	0.050	0.0075		2
trans-1,3-Dichloropropene	B160945-BLK1	ND	ug/m3	0.050	0.013		2
1,1-Difluoroethane	B160945-BLK1	ND	ug/m3	5.0	0.0027		2
Ethylbenzene	B160945-BLK1	ND	ug/m3	0.050	0.017		2
Methylene chloride	B160945-BLK1	ND	ug/m3	0.20	0.0077		2
Tetrachloroethene	B160945-BLK1	ND	ug/m3	0.10	0.011		2
Toluene	B160945-BLK1	ND	ug/m3	0.10	0.0062		2
1,1,1-Trichloroethane	B160945-BLK1	ND	ug/m3	0.10	0.0055		2
1,1,2-Trichloroethane	B160945-BLK1	ND	ug/m3	0.10	0.0055		2
Trichloroethene	B160945-BLK1	ND	ug/m3	0.10	0.0095		2
Trichlorofluoromethane	B160945-BLK1	ND	ug/m3	0.050	0.0057		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B160945-BLK1	ND	ug/m3	0.10	0.0078		2
Vinyl chloride	B160945-BLK1	ND	ug/m3	0.020	0.0046		2
p- & m-Xylenes	B160945-BLK1	ND	ug/m3	0.050	0.0082		2
o-Xylene	B160945-BLK1	ND	ug/m3	0.050	0.0044		2
Total Xylenes	B160945-BLK1	ND	ug/m3	0.10	0.013		2
4-Bromofluorobenzene (Surrogate)	B160945-BLK1	87.6	%	50 - 150 (LCL - UCL)			2

QC Batch ID: B162153

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162153							
Acetone	B162153-BLK1	ND	ug/m3	5.0	0.43		3
Acrylonitrile	B162153-BLK1	ND	ug/m3	2.0	0.27		3
Allyl chloride	B162153-BLK1	ND	ug/m3	2.0	0.28		3
Benzene	B162153-BLK1	ND	ug/m3	2.0	0.21		3
Benzyl chloride	B162153-BLK1	ND	ug/m3	10	0.26		3
Bromodichloromethane	B162153-BLK1	ND	ug/m3	5.0	0.45		3
Bromoform	B162153-BLK1	ND	ug/m3	10	0.86		3
Bromomethane	B162153-BLK1	ND	ug/m3	2.0	0.47		3
1,3-Butadiene	B162153-BLK1	ND	ug/m3	2.0	0.22		3
Carbon disulfide	B162153-BLK1	ND	ug/m3	2.0	0.19		3
Carbon tetrachloride	B162153-BLK1	ND	ug/m3	5.0	0.45		3
Chlorobenzene	B162153-BLK1	ND	ug/m3	5.0	0.40		3
Chloroethane	B162153-BLK1	ND	ug/m3	2.0	0.53		3
Chloroform	B162153-BLK1	ND	ug/m3	5.0	0.54		3
Chloromethane	B162153-BLK1	ND	ug/m3	2.0	0.21		3
Cyclohexane	B162153-BLK1	ND	ug/m3	2.0	0.38		3
Dibromochloromethane	B162153-BLK1	ND	ug/m3	5.0	0.43		3
1,2-Dibromoethane	B162153-BLK1	ND	ug/m3	5.0	0.58		3
1,2-Dichlorobenzene	B162153-BLK1	ND	ug/m3	5.0	0.50		3
1,3-Dichlorobenzene	B162153-BLK1	ND	ug/m3	5.0	0.31		3
1,4-Dichlorobenzene	B162153-BLK1	ND	ug/m3	5.0	0.50		3
Dichlorodifluoromethane	B162153-BLK1	ND	ug/m3	5.0	0.45		3
1,1-Dichloroethane	B162153-BLK1	ND	ug/m3	5.0	0.23		3
1,2-Dichloroethane	B162153-BLK1	ND	ug/m3	5.0	0.26		3
1,1-Dichloroethene	B162153-BLK1	ND	ug/m3	5.0	0.31		3
cis-1,2-Dichloroethene	B162153-BLK1	ND	ug/m3	2.0	0.32		3
trans-1,2-Dichloroethene	B162153-BLK1	ND	ug/m3	2.0	0.27		3
1,2-Dichloropropane	B162153-BLK1	ND	ug/m3	5.0	0.32		3
cis-1,3-Dichloropropene	B162153-BLK1	ND	ug/m3	5.0	0.30		3
trans-1,3-Dichloropropene	B162153-BLK1	ND	ug/m3	5.0	0.40		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162153-BLK1	ND	ug/m3	5.0	0.91		3
1,1-Difluoroethane	B162153-BLK1	ND	ug/m3	5.0	2.0		3
1,4-Dioxane	B162153-BLK1	ND	ug/m3	2.0	0.33		3
Ethanol	B162153-BLK1	ND	ug/m3	2.0	0.42		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162153							
Ethyl acetate	B162153-BLK1	ND	ug/m3	2.0	0.33		3
Ethylbenzene	B162153-BLK1	ND	ug/m3	5.0	0.32		3
1-Ethyl-4-methylbenzene	B162153-BLK1	ND	ug/m3	5.0	0.30		3
n-Heptane	B162153-BLK1	ND	ug/m3	2.0	0.34		3
Hexachlorobutadiene	B162153-BLK1	ND	ug/m3	10	1.5		3
Hexane	B162153-BLK1	ND	ug/m3	5.0	0.20		3
2-Hexanone	B162153-BLK1	ND	ug/m3	5.0	0.29		3
Isopropyl alcohol	B162153-BLK1	ND	ug/m3	2.0	0.32		3
Methylene chloride	B162153-BLK1	ND	ug/m3	10	0.40		3
Methyl ethyl ketone	B162153-BLK1	ND	ug/m3	2.0	0.19		3
Methyl isobutyl ketone	B162153-BLK1	ND	ug/m3	5.0	0.26		3
Methyl t-butyl ether	B162153-BLK1	ND	ug/m3	2.0	0.28		3
Propylene	B162153-BLK1	ND	ug/m3	2.0	0.25	C01	3
Styrene	B162153-BLK1	ND	ug/m3	5.0	0.24		3
1,1,2,2-Tetrachloroethane	B162153-BLK1	ND	ug/m3	5.0	0.47		3
Tetrachloroethene	B162153-BLK1	ND	ug/m3	2.0	0.50		3
Tetrahydrofuran	B162153-BLK1	ND	ug/m3	2.0	0.27		3
Toluene	B162153-BLK1	ND	ug/m3	2.0	0.27		3
1,2,4-Trichlorobenzene	B162153-BLK1	ND	ug/m3	10	0.82		3
1,1,1-Trichloroethane	B162153-BLK1	ND	ug/m3	5.0	0.39		3
1,1,2-Trichloroethane	B162153-BLK1	ND	ug/m3	5.0	0.61		3
Trichloroethene	B162153-BLK1	ND	ug/m3	2.0	0.54		3
Trichlorofluoromethane	B162153-BLK1	ND	ug/m3	5.0	0.47		3
1,1,2-Trichloro-1,2,2-trifluoroethane	B162153-BLK1	ND	ug/m3	5.0	0.55		3
1,2,4-Trimethylbenzene	B162153-BLK1	ND	ug/m3	5.0	0.40		3
1,3,5-Trimethylbenzene	B162153-BLK1	ND	ug/m3	5.0	0.40		3
Vinyl acetate	B162153-BLK1	ND	ug/m3	2.0	0.33		3
Vinyl chloride	B162153-BLK1	ND	ug/m3	2.0	0.39		3
p- & m-Xylenes	B162153-BLK1	ND	ug/m3	5.0	0.61		3
o-Xylene	B162153-BLK1	ND	ug/m3	5.0	0.30		3
Total Xylenes	B162153-BLK1	ND	ug/m3	10	0.91		3
4-Bromofluorobenzene (Surrogate)	B162153-BLK1	95.5	%	70 - 130 (LCL - UCL)			3

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run	Analyst	Instrument	Dilution
					Date Time			
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1

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Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1

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Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1

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Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B160936											
Benzene	B160936-BS1	LCS	14.888	15.974	ug/m3	93.2		70 - 130			1
	B160936-BSD1	LCSD	14.664	15.974	ug/m3	91.8	1.5	70 - 130	30		2
Chloroform	B160936-BS1	LCS	24.999	24.413	ug/m3	102		70 - 130			1
	B160936-BSD1	LCSD	24.999	24.413	ug/m3	102	0	70 - 130	30		2
Ethylbenzene	B160936-BS1	LCS	21.971	21.711	ug/m3	101		70 - 130			1
	B160936-BSD1	LCSD	21.884	21.711	ug/m3	101	0.4	70 - 130	30		2
Tetrachloroethene	B160936-BS1	LCS	36.015	33.913	ug/m3	106		70 - 130			1
	B160936-BSD1	LCSD	36.015	33.913	ug/m3	106	0	70 - 130	30		2
Toluene	B160936-BS1	LCS	19.784	18.842	ug/m3	105		70 - 130			1
	B160936-BSD1	LCSD	19.407	18.842	ug/m3	103	1.9	70 - 130	30		2
Trichloroethene	B160936-BS1	LCS	28.051	26.869	ug/m3	104		70 - 130			1
	B160936-BSD1	LCSD	27.943	26.869	ug/m3	104	0.4	70 - 130	30		2
Trichlorofluoromethane	B160936-BS1	LCS	30.901	28.092	ug/m3	110		70 - 130			1
	B160936-BSD1	LCSD	31.238	28.092	ug/m3	111	1.1	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B160936-BS1	LCS	37.782	38.318	ug/m3	98.6		70 - 130			1
	B160936-BSD1	LCSD	37.322	38.318	ug/m3	97.4	1.2	70 - 130	30		2
p- & m-Xylenes	B160936-BS1	LCS	47.069	43.421	ug/m3	108		70 - 130			1
	B160936-BSD1	LCSD	47.242	43.421	ug/m3	109	0.4	70 - 130	30		2
o-Xylene	B160936-BS1	LCS	23.751	21.711	ug/m3	109		70 - 130			1
	B160936-BSD1	LCSD	23.925	21.711	ug/m3	110	0.7	70 - 130	30		2
Total Xylenes	B160936-BS1	LCS	70.820	65.132	ug/m3	109		70 - 130			1
	B160936-BSD1	LCSD	71.167	65.132	ug/m3	109	0.5	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B160936-BS1	LCS	73.6	71.6	ug/m3	103		70 - 130			1
	B160936-BSD1	LCSD	74.4	71.6	ug/m3	104	1.0	70 - 130			2
QC Batch ID: B160945											
Benzene	B160945-BS1	LCS	0.29865	0.31948	ug/m3	93.5		70 - 130			3
	B160945-BSD1	LCSD	0.29865	0.31948	ug/m3	93.5	0	70 - 130	30		4
Benzyl chloride	B160945-BS1	LCS	0.39901	0.51772	ug/m3	77.1		70 - 130		J	3
	B160945-BSD1	LCSD	0.37794	0.51772	ug/m3	73.0	5.4	70 - 130	30	J	4
Carbon tetrachloride	B160945-BS1	LCS	0.56182	0.62913	ug/m3	89.3		70 - 130			3
	B160945-BSD1	LCSD	0.55571	0.62913	ug/m3	88.3	1.1	70 - 130	30		4
Chlorobenzene	B160945-BS1	LCS	0.44673	0.46036	ug/m3	97.0		70 - 130			3
	B160945-BSD1	LCSD	0.44277	0.46036	ug/m3	96.2	0.9	70 - 130	30		4
Chloroform	B160945-BS1	LCS	0.47614	0.48825	ug/m3	97.5		70 - 130			3
	B160945-BSD1	LCSD	0.48122	0.48825	ug/m3	98.6	1.1	70 - 130	30		4
1,2-Dibromoethane	B160945-BS1	LCS	0.74607	0.76835	ug/m3	97.1		70 - 130			3
	B160945-BSD1	LCSD	0.73377	0.76835	ug/m3	95.5	1.7	70 - 130	30		4

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Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B160945											
1,2-Dichlorobenzene	B160945-BS1	LCS	0.59961	0.60124	ug/m3	99.7		70 - 130			3
	B160945-BSD1	LCSD	0.57670	0.60124	ug/m3	95.9	3.9	70 - 130	30		4
1,3-Dichlorobenzene	B160945-BS1	LCS	0.62414	0.60124	ug/m3	104		70 - 130			3
	B160945-BSD1	LCSD	0.56438	0.60124	ug/m3	93.9	10.1	70 - 130	30		4
1,4-Dichlorobenzene	B160945-BS1	LCS	0.54911	0.60124	ug/m3	91.3		70 - 130			3
	B160945-BSD1	LCSD	0.62480	0.60124	ug/m3	104	12.9	70 - 130	30		4
1,1-Dichloroethane	B160945-BS1	LCS	0.39397	0.40474	ug/m3	97.3		70 - 130			3
	B160945-BSD1	LCSD	0.39665	0.40474	ug/m3	98.0	0.7	70 - 130	30		4
1,2-Dichloroethane	B160945-BS1	LCS	0.37916	0.40474	ug/m3	93.7		70 - 130			3
	B160945-BSD1	LCSD	0.37738	0.40474	ug/m3	93.2	0.5	70 - 130	30		4
1,1-Dichloroethene	B160945-BS1	LCS	0.38535	0.39649	ug/m3	97.2		70 - 130			3
	B160945-BSD1	LCSD	0.38682	0.39649	ug/m3	97.6	0.4	70 - 130	30		4
cis-1,2-Dichloroethene	B160945-BS1	LCS	0.37231	0.39649	ug/m3	93.9		70 - 130			3
	B160945-BSD1	LCSD	0.37243	0.39649	ug/m3	93.9	0.0	70 - 130	30		4
Methylene chloride	B160945-BS1	LCS	0.37173	0.34737	ug/m3	107		70 - 130			3
	B160945-BSD1	LCSD	0.37593	0.34737	ug/m3	108	1.1	70 - 130	30		4
Tetrachloroethene	B160945-BS1	LCS	0.66903	0.67825	ug/m3	98.6		70 - 130			3
	B160945-BSD1	LCSD	0.66333	0.67825	ug/m3	97.8	0.9	70 - 130	30		4
Toluene	B160945-BS1	LCS	0.35518	0.37684	ug/m3	94.2		70 - 130			3
	B160945-BSD1	LCSD	0.35303	0.37684	ug/m3	93.7	0.6	70 - 130	30		4
1,1,1-Trichloroethane	B160945-BS1	LCS	0.51632	0.54562	ug/m3	94.6		70 - 130			3
	B160945-BSD1	LCSD	0.51201	0.54562	ug/m3	93.8	0.8	70 - 130	30		4
1,1,2-Trichloroethane	B160945-BS1	LCS	0.53143	0.54562	ug/m3	97.4		70 - 130			3
	B160945-BSD1	LCSD	0.52821	0.54562	ug/m3	96.8	0.6	70 - 130	30		4
Trichloroethene	B160945-BS1	LCS	0.52980	0.53737	ug/m3	98.6		70 - 130			3
	B160945-BSD1	LCSD	0.52458	0.53737	ug/m3	97.6	1.0	70 - 130	30		4
Vinyl chloride	B160945-BS1	LCS	0.29603	0.25562	ug/m3	116		70 - 130			3
	B160945-BSD1	LCSD	0.31226	0.25562	ug/m3	122	5.3	70 - 130	30		4
p- & m-Xylenes	B160945-BS1	LCS	0.85622	0.86843	ug/m3	98.6		70 - 130			3
	B160945-BSD1	LCSD	0.84372	0.86843	ug/m3	97.2	1.5	70 - 130	30		4
o-Xylene	B160945-BS1	LCS	0.42735	0.43421	ug/m3	98.4		70 - 130			3
	B160945-BSD1	LCSD	0.42275	0.43421	ug/m3	97.4	1.1	70 - 130	30		4
Total Xylenes	B160945-BS1	LCS	1.2836	1.3026	ug/m3	98.5		70 - 130			3
	B160945-BSD1	LCSD	1.2665	1.3026	ug/m3	97.2	1.3	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B160945-BS1	LCS	3.48	3.58	ug/m3	97.3		50 - 150			3
	B160945-BSD1	LCSD	3.46	3.58	ug/m3	96.7	0.6	50 - 150			4

QC Batch ID: B162153

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B162153											
Benzene	B162153-BS1	LCS	14.313	15.974	ug/m3	89.6		70 - 130			5
	B162153-BSD1	LCSD	14.472	15.974	ug/m3	90.6	1.1	70 - 130	30		6
Chloroform	B162153-BS1	LCS	21.190	24.413	ug/m3	86.8		70 - 130			5
	B162153-BSD1	LCSD	21.239	24.413	ug/m3	87.0	0.2	70 - 130	30		6
Ethylbenzene	B162153-BS1	LCS	19.887	21.711	ug/m3	91.6		70 - 130			5
	B162153-BSD1	LCSD	19.670	21.711	ug/m3	90.6	1.1	70 - 130	30		6
Tetrachloroethene	B162153-BS1	LCS	30.725	33.913	ug/m3	90.6		70 - 130			5
	B162153-BSD1	LCSD	30.996	33.913	ug/m3	91.4	0.9	70 - 130	30		6
Toluene	B162153-BS1	LCS	17.448	18.842	ug/m3	92.6		70 - 130			5
	B162153-BSD1	LCSD	17.410	18.842	ug/m3	92.4	0.2	70 - 130	30		6
Trichloroethene	B162153-BS1	LCS	24.665	26.869	ug/m3	91.8		70 - 130			5
	B162153-BSD1	LCSD	24.397	26.869	ug/m3	90.8	1.1	70 - 130	30		6
Trichlorofluoromethane	B162153-BS1	LCS	24.046	28.092	ug/m3	85.6		70 - 130			5
	B162153-BSD1	LCSD	24.496	28.092	ug/m3	87.2	1.9	70 - 130	30		6
1,1,2-Trichloro-1,2,2-trifluoroethane	B162153-BS1	LCS	33.797	38.318	ug/m3	88.2		70 - 130			5
	B162153-BSD1	LCSD	34.256	38.318	ug/m3	89.4	1.4	70 - 130	30		6
p- & m-Xylenes	B162153-BS1	LCS	40.946	43.421	ug/m3	94.3		70 - 130			5
	B162153-BSD1	LCSD	40.425	43.421	ug/m3	93.1	1.3	70 - 130	30		6
o-Xylene	B162153-BS1	LCS	20.104	21.711	ug/m3	92.6		70 - 130			5
	B162153-BSD1	LCSD	20.017	21.711	ug/m3	92.2	0.4	70 - 130	30		6
Total Xylenes	B162153-BS1	LCS	61.050	65.132	ug/m3	93.7		70 - 130			5
	B162153-BSD1	LCSD	60.442	65.132	ug/m3	92.8	1.0	70 - 130	30		6
4-Bromofluorobenzene (Surrogate)	B162153-BS1	LCS	73.6	71.6	ug/m3	103		70 - 130			5
	B162153-BSD1	LCSD	73.9	71.6	ug/m3	103	0.3	70 - 130			6

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B162298

Methane (CH4)	B162298-BLK1	ND	ppmv	2.0	1.8		1
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Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162298-BLK1	PB	ASTM-D1946	03/20/23	03/20/23 17:30	RMK	GC-A1	1

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Reported: 04/03/2023 13:02
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 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162298											
Methane (CH4)	B162298-BS1	LCS	19907	18000	ppmv	111		70 - 130			1
	B162298-BSD1	LCSD	19827	18000	ppmv	110	0.4	70 - 130	30		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162298-BS1	LCS	ASTM-D1946	03/20/23	03/20/23	16:50	RMK	GC-A1	1
2	B162298-BSD1	LCSD	ASTM-D1946	03/20/23	03/20/23	17:10	RMK	GC-A1	1

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Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- C01 The calibration curve did not contain the minimum number of standards.
- S01 Sample result is not within the quantitation range of the method.



Date of Report: 04/11/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2306910
Invoice ID: B473327

Enclosed are the results of analyses for samples received by the laboratory on 4/6/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "BS", is positioned above a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", is positioned above a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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2306910

AIR: CHAIN-OF-CUSTODY / Analytical
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be corr

RUSH!

23-06910

Section A Required Client Information Company: Roux Address: 5150 E. Pacific Coast Hwy, Ste. 450 Long Beach, CA 90804 Email To: amcguire@rouxinc.com Phone: 562-446-8624 Fax: Requested Due Date/TAT:		Section B Required Project Information: Report To: April McGuire Copy To: Purchase Order No.: Project Name: City Terrace Project Number: 2855		Section C Invoice Information: Attention: Roux Accounts Payable (rouxap@rouxinc.com) Company Name: Roux Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804 P.O. Box Reference: 00130481 & 00132633 Plaza Project Manager/Sales Rep: Branna Schuze / Dawn Greer Plaza Profile #:		Page: 1 of 1 Program: <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other Location of Sampling by State: CA Report Level: II, x, III, IV, Other Method:	
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE AA-17-1 IA-17-1 IA-17-2 SV-17-1 SV-17-2		COLLECTED DATE TIME DATE TIME 04/01/23 1410 04/05/23 1554 1428 152 1426 151 04/04/23 1456 04/05/23 1503 04/05/23 1432 04/05/23 1437		Flow Control Number Summa Can Number 398 06023 273108170 74503795 109591335 23621371		Method: M10 TO-3 Fixed Gas (%) TO-3M (halogenes) TO-4 (Pb) TO-13 (PM) TO-14 TO-15 (SM) TO-15 (Short List) TO-15 SM Place Lab ID	
RELINQUISHED BY / AFFILIATION [Signature]		DATE 4-6-23 1600		ACCEPTED BY / AFFILIATION [Signature]		DATE 4-6-23 1600	
SAMPLER NAME AND SIGNATURE [Signature]		DATE 04/05/23		SIGNATURE OF SAMPLER [Signature]		DATE 04/05/23	

FC046Rev.01, 03Feb2010

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page	Of
Submission #: 23-06910					
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO/GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <input checked="" type="checkbox"/> Container: <u>Summa</u> Thermometer ID: _____ Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Date/Time <u>4-6-23</u> Analyst Init <u>SMH/1100</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE IMPRES										
4oz / 8oz / 16oz PE IMPRES										
2oz Cr*										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
49 ml VOA VIAL- 504										
QT EPA 503/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
3oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT <u>Summa 14L</u>										
SUMMA CANISTER <u>6L</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>					

Comments: _____
 Sample Numbering Completed By: RLH Date/Time: 4-6-23 6:05 Rev 23 05/2022
 A = Actual / C = Corrected [B:\WP\Doc\Ware\Profile\LAB_DOC\FORMS\COOLRECRev 20]

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2306910-01	COC Number:	---	Receive Date:	04/06/2023 11:00
	Project Number:	---	Sampling Date:	04/05/2023 11:54
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AA-17-1	Lab Matrix:	Air
	Sampled By:	Travis Clow	Sample Type:	Vapor or Air
2306910-02	COC Number:	---	Receive Date:	04/06/2023 11:00
	Project Number:	---	Sampling Date:	04/05/2023 11:52
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-17-1	Lab Matrix:	Air
	Sampled By:	Travis Clow	Sample Type:	Vapor or Air
2306910-03	COC Number:	---	Receive Date:	04/06/2023 11:00
	Project Number:	---	Sampling Date:	04/05/2023 11:51
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-17-2	Lab Matrix:	Air
	Sampled By:	Travis Clow	Sample Type:	Vapor or Air
2306910-04	COC Number:	---	Receive Date:	04/06/2023 11:00
	Project Number:	---	Sampling Date:	04/05/2023 15:03
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-17-1	Lab Matrix:	Air
	Sampled By:	Travis Clow	Sample Type:	Vapor or Air
2306910-05	COC Number:	---	Receive Date:	04/06/2023 11:00
	Project Number:	---	Sampling Date:	04/05/2023 14:37
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-17-2	Lab Matrix:	Air
	Sampled By:	Travis Clow	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306910-01		Client Sample Name: AA-17-1, 4/5/2023 11:54:00AM, Travis Clow						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	11	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	13	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.54	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.69	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
Chloromethane	1.2	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	3.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306910-01		Client Sample Name: AA-17-1, 4/5/2023 11:54:00AM, Travis Clow						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	7.0	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.25	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	2.2	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Methyl ethyl ketone	0.47	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306910-01		Client Sample Name: AA-17-1, 4/5/2023 11:54:00AM, Travis Clow						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	0.98	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.3	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.6	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.71	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	0.74	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	0.97	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.34	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1
Total Xylenes	1.3	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	92.5	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	95.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306910-01	Client Sample Name: AA-17-1, 4/5/2023 11:54:00AM, Travis Clow								
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	04/07/23 13:49	04/08/23 05:04	BEP	MS-A2	1	B163615	EPA TO-15	
2	EPA-TO-15-SIM	04/07/23 13:23	04/07/23 15:49	BEP	MS-A1	1	B163593	EPA TO-15	

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2306910-01	Client Sample Name: AA-17-1, 4/5/2023 11:54:00AM, Travis Clow							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	53	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	04/07/23 08:53	04/07/23 13:42	RMK	GC-A1	1	B163589	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306910-02		Client Sample Name: IA-17-1, 4/5/2023 11:52:00AM, Travis Clow						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	39	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	42	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.89	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	1.1	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.3	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	120	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	170	ug/m3	4.0	0.32	EPA-TO-15-SIM	ND	A01	2
Dichlorodifluoromethane	2.0	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	3.5	ug/m3	1.0	0.10	EPA-TO-15-SIM	ND	A01	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306910-02		Client Sample Name: IA-17-1, 4/5/2023 11:52:00AM, Travis Clow						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	0.65	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	270	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	6.9	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.29	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	1.4	ug/m3	2.0	0.34	EPA-TO-15	ND	J	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	2.5	ug/m3	5.0	0.20	EPA-TO-15	ND	J	1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	280	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	1.3	ug/m3	4.0	0.15	EPA-TO-15-SIM	ND	J,A01	2
Methyl ethyl ketone	2.0	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306910-02		Client Sample Name: IA-17-1, 4/5/2023 11:52:00AM, Travis Clow						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		1
Styrene	0.47	ug/m3	5.0	0.24	EPA-TO-15	ND	J	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	4.1	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	1.8	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	2.4	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	0.21	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.2	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.6	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.62	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	0.91	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.0	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.40	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	0.91	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	1.4	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	98.3	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	97.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	125	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306910-02		Client Sample Name: IA-17-1, 4/5/2023 11:52:00AM, Travis Clow							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	04/07/23 13:49	04/08/23 05:49	BEP	MS-A2	1	B163615	EPA TO-15	
2	EPA-TO-15-SIM	04/07/23 13:23	04/07/23 17:34	BEP	MS-A1	20	B163593	EPA TO-15	
3	EPA-TO-15-SIM	04/07/23 13:23	04/07/23 16:26	BEP	MS-A1	1	B163593	EPA TO-15	

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2306910-02	Client Sample Name: IA-17-1, 4/5/2023 11:52:00AM, Travis Clow
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	46	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	04/07/23 08:53	04/07/23 14:02	RMK	GC-A1	1	B163589	No Prep

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306910-03		Client Sample Name: IA-17-2, 4/5/2023 11:51:00AM, Travis Clow						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	37	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	31	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.86	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	1.0	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.3	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Cyclohexane	1.1	ug/m3	2.0	0.38	EPA-TO-15	ND	J	1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	120	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	120	ug/m3	4.0	0.32	EPA-TO-15-SIM	ND	A01	2
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.5	ug/m3	1.0	0.10	EPA-TO-15-SIM	ND	A01	2

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 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306910-03		Client Sample Name: IA-17-2, 4/5/2023 11:51:00AM, Travis Clow						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	0.66	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	270	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	7.3	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.33	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	1.4	ug/m3	2.0	0.34	EPA-TO-15	ND	J	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	2.3	ug/m3	5.0	0.20	EPA-TO-15	ND	J	1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	290	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	0.90	ug/m3	4.0	0.15	EPA-TO-15-SIM	ND	J,A01	2
Methyl ethyl ketone	2.1	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306910-03		Client Sample Name: IA-17-2, 4/5/2023 11:51:00AM, Travis Clow						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		1
Styrene	0.47	ug/m3	5.0	0.24	EPA-TO-15	ND	J	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	4.5	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	1.8	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.7	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	J,A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	0.21	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	0.87	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.1	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.44	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1
Total Xylenes	1.5	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	97.2	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	96.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	143	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306910-03		Client Sample Name: IA-17-2, 4/5/2023 11:51:00AM, Travis Clow							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	04/07/23 13:49	04/08/23 06:34	BEP	MS-A2	1	B163615	EPA TO-15	
2	EPA-TO-15-SIM	04/07/23 13:23	04/07/23 18:05	BEP	MS-A1	20	B163593	EPA TO-15	
3	EPA-TO-15-SIM	04/07/23 13:23	04/07/23 17:03	BEP	MS-A1	1	B163593	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2306910-03	Client Sample Name: IA-17-2, 4/5/2023 11:51:00AM, Travis Clow
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	49	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	04/07/23 08:53	04/07/23 14:22	RMK	GC-A1	1	B163589	No Prep

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Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306910-04		Client Sample Name: SV-17-1, 4/5/2023 3:03:00PM, Travis Clow						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	380	ug/m3	81	7.0	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.2	0.44	EPA-TO-15	ND	A01	2
Allyl chloride	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	2
Benzene	3.5	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	2
Benzyl chloride	ND	ug/m3	16	0.42	EPA-TO-15	ND	A01	2
Bromodichloromethane	ND	ug/m3	8.1	0.73	EPA-TO-15	ND	A01	2
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	2
Bromomethane	ND	ug/m3	3.2	0.76	EPA-TO-15	ND	A01	2
1,3-Butadiene	ND	ug/m3	3.2	0.36	EPA-TO-15	ND	A01	2
Carbon disulfide	3.6	ug/m3	3.2	0.31	EPA-TO-15	ND	A01	2
Carbon tetrachloride	ND	ug/m3	8.1	0.73	EPA-TO-15	ND	A01	2
Chlorobenzene	ND	ug/m3	8.1	0.65	EPA-TO-15	ND	A01	2
Chloroethane	ND	ug/m3	3.2	0.86	EPA-TO-15	ND	A01	2
Chloroform	1.1	ug/m3	8.1	0.87	EPA-TO-15	ND	J,A01	2
Chloromethane	ND	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	2
Cyclohexane	ND	ug/m3	3.2	0.62	EPA-TO-15	ND	A01	2
Dibromochloromethane	ND	ug/m3	8.1	0.70	EPA-TO-15	ND	A01	2
1,2-Dibromoethane	ND	ug/m3	8.1	0.94	EPA-TO-15	ND	A01	2
1,2-Dichlorobenzene	ND	ug/m3	8.1	0.81	EPA-TO-15	ND	A01	2
1,3-Dichlorobenzene	ND	ug/m3	8.1	0.50	EPA-TO-15	ND	A01	2
1,4-Dichlorobenzene	ND	ug/m3	8.1	0.81	EPA-TO-15	ND	A01	2
Dichlorodifluoromethane	2.4	ug/m3	8.1	0.73	EPA-TO-15	ND	J,A01	2
1,1-Dichloroethane	ND	ug/m3	8.1	0.37	EPA-TO-15	ND	A01	2
1,2-Dichloroethane	ND	ug/m3	8.1	0.42	EPA-TO-15	ND	A01	2
1,1-Dichloroethene	ND	ug/m3	8.1	0.50	EPA-TO-15	ND	A01	2
cis-1,2-Dichloroethene	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	2
trans-1,2-Dichloroethene	ND	ug/m3	3.2	0.44	EPA-TO-15	ND	A01	2
1,2-Dichloropropane	ND	ug/m3	8.1	0.52	EPA-TO-15	ND	A01	2
cis-1,3-Dichloropropene	ND	ug/m3	8.1	0.49	EPA-TO-15	ND	A01	2
trans-1,3-Dichloropropene	ND	ug/m3	8.1	0.65	EPA-TO-15	ND	A01	2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.1	1.5	EPA-TO-15	ND	A01	2
1,1-Difluoroethane	ND	ug/m3	8.1	3.2	EPA-TO-15	ND	A01	2
1,4-Dioxane	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	2

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306910-04		Client Sample Name: SV-17-1, 4/5/2023 3:03:00PM, Travis Clow						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	24	ug/m3	3.2	0.68	EPA-TO-15	ND	A01	2
Ethyl acetate	7.3	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	2
Ethylbenzene	8.0	ug/m3	8.1	0.52	EPA-TO-15	ND	J,A01	2
1-Ethyl-4-methylbenzene	ND	ug/m3	8.1	0.49	EPA-TO-15	ND	A01	2
n-Heptane	1.5	ug/m3	3.2	0.55	EPA-TO-15	ND	J,A01	2
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	2
Hexane	4.8	ug/m3	8.1	0.32	EPA-TO-15	ND	J,A01	2
2-Hexanone	ND	ug/m3	8.1	0.47	EPA-TO-15	ND	A01	2
Isopropyl alcohol	14	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	2
Methylene chloride	ND	ug/m3	16	0.65	EPA-TO-15	ND	A01	2
Methyl ethyl ketone	12	ug/m3	3.2	0.31	EPA-TO-15	ND	A01	2
Methyl isobutyl ketone	1.5	ug/m3	8.1	0.42	EPA-TO-15	ND	J,A01	2
Methyl t-butyl ether	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	2
Propylene	6.5	ug/m3	3.2	0.40	EPA-TO-15	ND	A01	2
Styrene	0.83	ug/m3	8.1	0.39	EPA-TO-15	ND	J,A01	2
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.1	0.76	EPA-TO-15	ND	A01	2
Tetrachloroethene	ND	ug/m3	3.2	0.81	EPA-TO-15	ND	A01	2
Tetrahydrofuran	0.62	ug/m3	3.2	0.44	EPA-TO-15	ND	J,A01	2
Toluene	21	ug/m3	3.2	0.44	EPA-TO-15	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	2
1,1,1-Trichloroethane	ND	ug/m3	8.1	0.63	EPA-TO-15	ND	A01	2
1,1,2-Trichloroethane	ND	ug/m3	8.1	0.99	EPA-TO-15	ND	A01	2
Trichloroethene	ND	ug/m3	3.2	0.87	EPA-TO-15	ND	A01	2
Trichlorofluoromethane	1.3	ug/m3	8.1	0.76	EPA-TO-15	ND	J,A01	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.1	0.89	EPA-TO-15	ND	A01	2
1,2,4-Trimethylbenzene	0.88	ug/m3	8.1	0.65	EPA-TO-15	ND	J,A01	2
1,3,5-Trimethylbenzene	ND	ug/m3	8.1	0.65	EPA-TO-15	ND	A01	2
Vinyl acetate	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	2
Vinyl chloride	ND	ug/m3	3.2	0.63	EPA-TO-15	ND	A01	2
p- & m-Xylenes	31	ug/m3	8.1	0.99	EPA-TO-15	ND	A01	2
o-Xylene	10	ug/m3	8.1	0.49	EPA-TO-15	ND	A01	2
Total Xylenes	41	ug/m3	16	1.5	EPA-TO-15	ND	A01	2
4-Bromofluorobenzene (Surrogate)	93.7	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306910-04	Client Sample Name: SV-17-1, 4/5/2023 3:03:00PM, Travis Clow							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
4-Bromofluorobenzene (Surrogate)	93.7	%	70 - 130 (LCL - UCL)		EPA-TO-15			2

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-TO-15	04/07/23	13:49	04/08/23	07:51	BEP	MS-A2	16.200	B163615	EPA TO-15
2	EPA-TO-15	04/07/23	13:49	04/07/23	19:06	BEP	MS-A2	1.620	B163615	EPA TO-15

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Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306910-05		Client Sample Name: SV-17-2, 4/5/2023 2:37:00PM, Travis Clow						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	180	ug/m3	86	7.4	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.4	0.46	EPA-TO-15	ND	A01	2
Allyl chloride	ND	ug/m3	3.4	0.48	EPA-TO-15	ND	A01	2
Benzene	4.3	ug/m3	3.4	0.36	EPA-TO-15	ND	A01	2
Benzyl chloride	ND	ug/m3	17	0.45	EPA-TO-15	ND	A01	2
Bromodichloromethane	ND	ug/m3	8.6	0.77	EPA-TO-15	ND	A01	2
Bromoform	ND	ug/m3	17	1.5	EPA-TO-15	ND	A01	2
Bromomethane	ND	ug/m3	3.4	0.81	EPA-TO-15	ND	A01	2
1,3-Butadiene	ND	ug/m3	3.4	0.38	EPA-TO-15	ND	A01	2
Carbon disulfide	9.5	ug/m3	3.4	0.33	EPA-TO-15	ND	A01	2
Carbon tetrachloride	ND	ug/m3	8.6	0.77	EPA-TO-15	ND	A01	2
Chlorobenzene	ND	ug/m3	8.6	0.69	EPA-TO-15	ND	A01	2
Chloroethane	ND	ug/m3	3.4	0.91	EPA-TO-15	ND	A01	2
Chloroform	2.2	ug/m3	8.6	0.93	EPA-TO-15	ND	J,A01	2
Chloromethane	ND	ug/m3	3.4	0.36	EPA-TO-15	ND	A01	2
Cyclohexane	7.3	ug/m3	3.4	0.65	EPA-TO-15	ND	A01	2
Dibromochloromethane	ND	ug/m3	8.6	0.74	EPA-TO-15	ND	A01	2
1,2-Dibromoethane	ND	ug/m3	8.6	1.0	EPA-TO-15	ND	A01	2
1,2-Dichlorobenzene	ND	ug/m3	8.6	0.86	EPA-TO-15	ND	A01	2
1,3-Dichlorobenzene	ND	ug/m3	8.6	0.53	EPA-TO-15	ND	A01	2
1,4-Dichlorobenzene	ND	ug/m3	8.6	0.86	EPA-TO-15	ND	A01	2
Dichlorodifluoromethane	2.7	ug/m3	8.6	0.77	EPA-TO-15	ND	J,A01	2
1,1-Dichloroethane	ND	ug/m3	8.6	0.40	EPA-TO-15	ND	A01	2
1,2-Dichloroethane	ND	ug/m3	8.6	0.45	EPA-TO-15	ND	A01	2
1,1-Dichloroethene	ND	ug/m3	8.6	0.53	EPA-TO-15	ND	A01	2
cis-1,2-Dichloroethene	ND	ug/m3	3.4	0.55	EPA-TO-15	ND	A01	2
trans-1,2-Dichloroethene	ND	ug/m3	3.4	0.46	EPA-TO-15	ND	A01	2
1,2-Dichloropropane	ND	ug/m3	8.6	0.55	EPA-TO-15	ND	A01	2
cis-1,3-Dichloropropene	ND	ug/m3	8.6	0.52	EPA-TO-15	ND	A01	2
trans-1,3-Dichloropropene	ND	ug/m3	8.6	0.69	EPA-TO-15	ND	A01	2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.6	1.6	EPA-TO-15	ND	A01	2
1,1-Difluoroethane	ND	ug/m3	8.6	3.4	EPA-TO-15	ND	A01	2
1,4-Dioxane	ND	ug/m3	3.4	0.57	EPA-TO-15	ND	A01	2

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 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306910-05		Client Sample Name: SV-17-2, 4/5/2023 2:37:00PM, Travis Clow						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	18	ug/m3	3.4	0.72	EPA-TO-15	ND	A01	2
Ethyl acetate	3.3	ug/m3	3.4	0.57	EPA-TO-15	ND	J,A01	2
Ethylbenzene	3.5	ug/m3	8.6	0.55	EPA-TO-15	ND	J,A01	2
1-Ethyl-4-methylbenzene	ND	ug/m3	8.6	0.52	EPA-TO-15	ND	A01	2
n-Heptane	1.9	ug/m3	3.4	0.58	EPA-TO-15	ND	J,A01	2
Hexachlorobutadiene	ND	ug/m3	17	2.6	EPA-TO-15	ND	A01	2
Hexane	3.4	ug/m3	8.6	0.34	EPA-TO-15	ND	J,A01	2
2-Hexanone	ND	ug/m3	8.6	0.50	EPA-TO-15	ND	A01	2
Isopropyl alcohol	9.6	ug/m3	3.4	0.55	EPA-TO-15	ND	A01	2
Methylene chloride	ND	ug/m3	17	0.69	EPA-TO-15	ND	A01	2
Methyl ethyl ketone	1.5	ug/m3	3.4	0.33	EPA-TO-15	ND	J,A01	2
Methyl isobutyl ketone	0.92	ug/m3	8.6	0.45	EPA-TO-15	ND	J,A01	2
Methyl t-butyl ether	ND	ug/m3	3.4	0.48	EPA-TO-15	ND	A01	2
Propylene	9.8	ug/m3	3.4	0.43	EPA-TO-15	ND	A01	2
Styrene	ND	ug/m3	8.6	0.41	EPA-TO-15	ND	A01	2
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.6	0.81	EPA-TO-15	ND	A01	2
Tetrachloroethene	ND	ug/m3	3.4	0.86	EPA-TO-15	ND	A01	2
Tetrahydrofuran	ND	ug/m3	3.4	0.46	EPA-TO-15	ND	A01	2
Toluene	9.9	ug/m3	3.4	0.46	EPA-TO-15	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	17	1.4	EPA-TO-15	ND	A01	2
1,1,1-Trichloroethane	ND	ug/m3	8.6	0.67	EPA-TO-15	ND	A01	2
1,1,2-Trichloroethane	ND	ug/m3	8.6	1.0	EPA-TO-15	ND	A01	2
Trichloroethene	ND	ug/m3	3.4	0.93	EPA-TO-15	ND	A01	2
Trichlorofluoromethane	1.4	ug/m3	8.6	0.81	EPA-TO-15	ND	J,A01	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.6	0.95	EPA-TO-15	ND	A01	2
1,2,4-Trimethylbenzene	1.1	ug/m3	8.6	0.69	EPA-TO-15	ND	J,A01	2
1,3,5-Trimethylbenzene	ND	ug/m3	8.6	0.69	EPA-TO-15	ND	A01	2
Vinyl acetate	ND	ug/m3	3.4	0.57	EPA-TO-15	ND	A01	2
Vinyl chloride	ND	ug/m3	3.4	0.67	EPA-TO-15	ND	A01	2
p- & m-Xylenes	14	ug/m3	8.6	1.0	EPA-TO-15	ND	A01	2
o-Xylene	4.7	ug/m3	8.6	0.52	EPA-TO-15	ND	J,A01	2
Total Xylenes	19	ug/m3	17	1.6	EPA-TO-15	ND	A01	2
4-Bromofluorobenzene (Surrogate)	93.3	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306910-05	Client Sample Name: SV-17-2, 4/5/2023 2:37:00PM, Travis Clow
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
4-Bromofluorobenzene (Surrogate)	94.4	%	70 - 130 (LCL - UCL)		EPA-TO-15			2

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-TO-15	04/07/23	13:49	04/08/23	08:30	BEP	MS-A2	17.200	B163615	EPA TO-15
2	EPA-TO-15	04/07/23	13:49	04/07/23	19:49	BEP	MS-A2	1.720	B163615	EPA TO-15

DCN = Data Continuation Number

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Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163593							
Acetone	B163593-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B163593-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B163593-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B163593-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B163593-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B163593-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B163593-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B163593-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B163593-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B163593-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B163593-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B163593-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B163593-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B163593-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B163593-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B163593-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B163593-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B163593-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B163593-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B163593-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B163593-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B163593-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B163593-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B163593-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B163593-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B163593-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B163593-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B163593-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B163593-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B163593-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B163593-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B163593-BLK1	86.6	%	50 - 150 (LCL - UCL)			1
QC Batch ID: B163615							

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163615							
Acetone	B163615-BLK1	ND	ug/m3	5.0	0.43		2
Acrylonitrile	B163615-BLK1	ND	ug/m3	2.0	0.27		2
Allyl chloride	B163615-BLK1	ND	ug/m3	2.0	0.28		2
Benzene	B163615-BLK1	ND	ug/m3	2.0	0.21		2
Benzyl chloride	B163615-BLK1	ND	ug/m3	10	0.26		2
Bromodichloromethane	B163615-BLK1	ND	ug/m3	5.0	0.45		2
Bromoform	B163615-BLK1	ND	ug/m3	10	0.86		2
Bromomethane	B163615-BLK1	ND	ug/m3	2.0	0.47		2
1,3-Butadiene	B163615-BLK1	ND	ug/m3	2.0	0.22		2
Carbon disulfide	B163615-BLK1	ND	ug/m3	2.0	0.19		2
Carbon tetrachloride	B163615-BLK1	ND	ug/m3	5.0	0.45		2
Chlorobenzene	B163615-BLK1	ND	ug/m3	5.0	0.40		2
Chloroethane	B163615-BLK1	ND	ug/m3	2.0	0.53		2
Chloroform	B163615-BLK1	ND	ug/m3	5.0	0.54		2
Chloromethane	B163615-BLK1	ND	ug/m3	2.0	0.21		2
Cyclohexane	B163615-BLK1	ND	ug/m3	2.0	0.38		2
Dibromochloromethane	B163615-BLK1	ND	ug/m3	5.0	0.43		2
1,2-Dibromoethane	B163615-BLK1	ND	ug/m3	5.0	0.58		2
1,2-Dichlorobenzene	B163615-BLK1	ND	ug/m3	5.0	0.50		2
1,3-Dichlorobenzene	B163615-BLK1	ND	ug/m3	5.0	0.31		2
1,4-Dichlorobenzene	B163615-BLK1	ND	ug/m3	5.0	0.50		2
Dichlorodifluoromethane	B163615-BLK1	ND	ug/m3	5.0	0.45		2
1,1-Dichloroethane	B163615-BLK1	ND	ug/m3	5.0	0.23		2
1,2-Dichloroethane	B163615-BLK1	ND	ug/m3	5.0	0.26		2
1,1-Dichloroethene	B163615-BLK1	ND	ug/m3	5.0	0.31		2
cis-1,2-Dichloroethene	B163615-BLK1	ND	ug/m3	2.0	0.32		2
trans-1,2-Dichloroethene	B163615-BLK1	ND	ug/m3	2.0	0.27		2
1,2-Dichloropropane	B163615-BLK1	ND	ug/m3	5.0	0.32		2
cis-1,3-Dichloropropene	B163615-BLK1	ND	ug/m3	5.0	0.30		2
trans-1,3-Dichloropropene	B163615-BLK1	ND	ug/m3	5.0	0.40		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B163615-BLK1	ND	ug/m3	5.0	0.91		2
1,1-Difluoroethane	B163615-BLK1	ND	ug/m3	5.0	2.0		2
1,4-Dioxane	B163615-BLK1	ND	ug/m3	2.0	0.33		2
Ethanol	B163615-BLK1	ND	ug/m3	2.0	0.42		2

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163615							
Ethyl acetate	B163615-BLK1	ND	ug/m3	2.0	0.33		2
Ethylbenzene	B163615-BLK1	ND	ug/m3	5.0	0.32		2
1-Ethyl-4-methylbenzene	B163615-BLK1	ND	ug/m3	5.0	0.30		2
n-Heptane	B163615-BLK1	ND	ug/m3	2.0	0.34		2
Hexachlorobutadiene	B163615-BLK1	ND	ug/m3	10	1.5		2
Hexane	B163615-BLK1	ND	ug/m3	5.0	0.20		2
2-Hexanone	B163615-BLK1	ND	ug/m3	5.0	0.29		2
Isopropyl alcohol	B163615-BLK1	ND	ug/m3	2.0	0.32		2
Methylene chloride	B163615-BLK1	ND	ug/m3	10	0.40		2
Methyl ethyl ketone	B163615-BLK1	ND	ug/m3	2.0	0.19		2
Methyl isobutyl ketone	B163615-BLK1	ND	ug/m3	5.0	0.26		2
Methyl t-butyl ether	B163615-BLK1	ND	ug/m3	2.0	0.28		2
Propylene	B163615-BLK1	ND	ug/m3	2.0	0.25		2
Styrene	B163615-BLK1	ND	ug/m3	5.0	0.24		2
1,1,2,2-Tetrachloroethane	B163615-BLK1	ND	ug/m3	5.0	0.47		2
Tetrachloroethene	B163615-BLK1	ND	ug/m3	2.0	0.50		2
Tetrahydrofuran	B163615-BLK1	ND	ug/m3	2.0	0.27		2
Toluene	B163615-BLK1	ND	ug/m3	2.0	0.27		2
1,2,4-Trichlorobenzene	B163615-BLK1	ND	ug/m3	10	0.82		2
1,1,1-Trichloroethane	B163615-BLK1	ND	ug/m3	5.0	0.39		2
1,1,2-Trichloroethane	B163615-BLK1	ND	ug/m3	5.0	0.61		2
Trichloroethene	B163615-BLK1	ND	ug/m3	2.0	0.54		2
Trichlorofluoromethane	B163615-BLK1	ND	ug/m3	5.0	0.47		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B163615-BLK1	ND	ug/m3	5.0	0.55		2
1,2,4-Trimethylbenzene	B163615-BLK1	ND	ug/m3	5.0	0.40		2
1,3,5-Trimethylbenzene	B163615-BLK1	ND	ug/m3	5.0	0.40		2
Vinyl acetate	B163615-BLK1	ND	ug/m3	2.0	0.33		2
Vinyl chloride	B163615-BLK1	ND	ug/m3	2.0	0.39		2
p- & m-Xylenes	B163615-BLK1	ND	ug/m3	5.0	0.61		2
o-Xylene	B163615-BLK1	ND	ug/m3	5.0	0.30		2
Total Xylenes	B163615-BLK1	ND	ug/m3	10	0.91		2
4-Bromofluorobenzene (Surrogate)	B163615-BLK1	91.0	%	70 - 130 (LCL - UCL)			2

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/11/2023 8:16
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1
1	B163593-BLK1	PB	EPA-TO-15-SIM	04/07/23	04/07/23 14:14	BEP	MS-A1	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)
Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1

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Long Beach, CA 90804

Reported: 04/11/2023 8:16
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1
2	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23 15:43	BEP	MS-A2	1

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 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B163593											
Benzene	B163593-BS1	LCS	0.33686	0.31948	ug/m3	105		70 - 130			1
	B163593-BSD1	LCSD	0.31922	0.31948	ug/m3	99.9	5.4	70 - 130	30		2
Benzyl chloride	B163593-BS1	LCS	0.47330	0.51772	ug/m3	91.4		70 - 130		J	1
	B163593-BSD1	LCSD	0.44886	0.51772	ug/m3	86.7	5.3	70 - 130	30	J	2
Carbon tetrachloride	B163593-BS1	LCS	0.62618	0.62913	ug/m3	99.5		70 - 130			1
	B163593-BSD1	LCSD	0.64612	0.62913	ug/m3	103	3.1	70 - 130	30		2
Chlorobenzene	B163593-BS1	LCS	0.44627	0.46036	ug/m3	96.9		70 - 130			1
	B163593-BSD1	LCSD	0.49378	0.46036	ug/m3	107	10.1	70 - 130	30		2
Chloroform	B163593-BS1	LCS	0.51770	0.48825	ug/m3	106		70 - 130			1
	B163593-BSD1	LCSD	0.53137	0.48825	ug/m3	109	2.6	70 - 130	30		2
1,2-Dibromoethane	B163593-BS1	LCS	0.77665	0.76835	ug/m3	101		70 - 130			1
	B163593-BSD1	LCSD	0.83297	0.76835	ug/m3	108	7.0	70 - 130	30		2
1,2-Dichlorobenzene	B163593-BS1	LCS	0.63388	0.60124	ug/m3	105		70 - 130			1
	B163593-BSD1	LCSD	0.64573	0.60124	ug/m3	107	1.9	70 - 130	30		2
1,3-Dichlorobenzene	B163593-BS1	LCS	0.61759	0.60124	ug/m3	103		70 - 130			1
	B163593-BSD1	LCSD	0.61536	0.60124	ug/m3	102	0.4	70 - 130	30		2
1,4-Dichlorobenzene	B163593-BS1	LCS	0.62751	0.60124	ug/m3	104		70 - 130			1
	B163593-BSD1	LCSD	0.55963	0.60124	ug/m3	93.1	11.4	70 - 130	30		2
1,1-Dichloroethane	B163593-BS1	LCS	0.42214	0.40474	ug/m3	104		70 - 130			1
	B163593-BSD1	LCSD	0.44173	0.40474	ug/m3	109	4.5	70 - 130	30		2
1,2-Dichloroethane	B163593-BS1	LCS	0.40757	0.40474	ug/m3	101		70 - 130			1
	B163593-BSD1	LCSD	0.41247	0.40474	ug/m3	102	1.2	70 - 130	30		2
1,1-Dichloroethene	B163593-BS1	LCS	0.43357	0.39649	ug/m3	109		70 - 130			1
	B163593-BSD1	LCSD	0.44907	0.39649	ug/m3	113	3.5	70 - 130	30		2
cis-1,2-Dichloroethene	B163593-BS1	LCS	0.40871	0.39649	ug/m3	103		70 - 130			1
	B163593-BSD1	LCSD	0.39150	0.39649	ug/m3	98.7	4.3	70 - 130	30		2
Methylene chloride	B163593-BS1	LCS	0.36127	0.34737	ug/m3	104		70 - 130			1
	B163593-BSD1	LCSD	0.37999	0.34737	ug/m3	109	5.1	70 - 130	30		2
Tetrachloroethene	B163593-BS1	LCS	0.68822	0.67825	ug/m3	101		70 - 130			1
	B163593-BSD1	LCSD	0.75306	0.67825	ug/m3	111	9.0	70 - 130	30		2
Toluene	B163593-BS1	LCS	0.35536	0.37684	ug/m3	94.3		70 - 130			1
	B163593-BSD1	LCSD	0.38709	0.37684	ug/m3	103	8.5	70 - 130	30		2
1,1,1-Trichloroethane	B163593-BS1	LCS	0.57950	0.54562	ug/m3	106		70 - 130			1
	B163593-BSD1	LCSD	0.58081	0.54562	ug/m3	106	0.2	70 - 130	30		2
1,1,2-Trichloroethane	B163593-BS1	LCS	0.54546	0.54562	ug/m3	100		70 - 130			1
	B163593-BSD1	LCSD	0.59363	0.54562	ug/m3	109	8.5	70 - 130	30		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B163593											
Trichloroethene	B163593-BS1	LCS	0.52910	0.53737	ug/m3	98.5		70 - 130			1
	B163593-BSD1	LCSD	0.56935	0.53737	ug/m3	106	7.3	70 - 130	30		2
Vinyl chloride	B163593-BS1	LCS	0.25835	0.25562	ug/m3	101		70 - 130			1
	B163593-BSD1	LCSD	0.27530	0.25562	ug/m3	108	6.4	70 - 130	30		2
p- & m-Xylenes	B163593-BS1	LCS	0.84220	0.86843	ug/m3	97.0		70 - 130			1
	B163593-BSD1	LCSD	0.84116	0.86843	ug/m3	96.9	0.1	70 - 130	30		2
o-Xylene	B163593-BS1	LCS	0.42127	0.43421	ug/m3	97.0		70 - 130			1
	B163593-BSD1	LCSD	0.43534	0.43421	ug/m3	100	3.3	70 - 130	30		2
Total Xylenes	B163593-BS1	LCS	1.2635	1.3026	ug/m3	97.0		70 - 130			1
	B163593-BSD1	LCSD	1.2765	1.3026	ug/m3	98.0	1.0	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B163593-BS1	LCS	3.56	3.58	ug/m3	99.5		50 - 150			1
	B163593-BSD1	LCSD	3.52	3.58	ug/m3	98.4	1.1	50 - 150			2
QC Batch ID: B163615											
Benzene	B163615-BS1	LCS	15.910	15.974	ug/m3	99.6		70 - 130			3
	B163615-BSD1	LCSD	15.527	15.974	ug/m3	97.2	2.4	70 - 130	30		4
Chloroform	B163615-BS1	LCS	23.485	24.413	ug/m3	96.2		70 - 130			3
	B163615-BSD1	LCSD	23.583	24.413	ug/m3	96.6	0.4	70 - 130	30		4
Ethylbenzene	B163615-BS1	LCS	22.101	21.711	ug/m3	102		70 - 130			3
	B163615-BSD1	LCSD	22.319	21.711	ug/m3	103	1.0	70 - 130	30		4
Tetrachloroethene	B163615-BS1	LCS	33.031	33.913	ug/m3	97.4		70 - 130			3
	B163615-BSD1	LCSD	33.913	33.913	ug/m3	100	2.6	70 - 130	30		4
Toluene	B163615-BS1	LCS	18.805	18.842	ug/m3	99.8		70 - 130			3
	B163615-BSD1	LCSD	19.031	18.842	ug/m3	101	1.2	70 - 130	30		4
Trichloroethene	B163615-BS1	LCS	26.600	26.869	ug/m3	99.0		70 - 130			3
	B163615-BSD1	LCSD	27.084	26.869	ug/m3	101	1.8	70 - 130	30		4
Trichlorofluoromethane	B163615-BS1	LCS	26.856	28.092	ug/m3	95.6		70 - 130			3
	B163615-BSD1	LCSD	27.024	28.092	ug/m3	96.2	0.6	70 - 130	30		4
1,1,2-Trichloro-1,2,2-trifluoroethane	B163615-BS1	LCS	37.475	38.318	ug/m3	97.8		70 - 130			3
	B163615-BSD1	LCSD	37.552	38.318	ug/m3	98.0	0.2	70 - 130	30		4
p- & m-Xylenes	B163615-BS1	LCS	46.721	43.421	ug/m3	108		70 - 130			3
	B163615-BSD1	LCSD	47.025	43.421	ug/m3	108	0.6	70 - 130	30		4
o-Xylene	B163615-BS1	LCS	22.970	21.711	ug/m3	106		70 - 130			3
	B163615-BSD1	LCSD	23.447	21.711	ug/m3	108	2.1	70 - 130	30		4
Total Xylenes	B163615-BS1	LCS	69.691	65.132	ug/m3	107		70 - 130			3
	B163615-BSD1	LCSD	70.473	65.132	ug/m3	108	1.1	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B163615-BS1	LCS	71.6	71.6	ug/m3	100		70 - 130			3
	B163615-BSD1	LCSD	71.3	71.6	ug/m3	99.6	0.4	70 - 130			4

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/11/2023 8:16
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B163593-BS1	LCS	EPA-TO-15-SIM	04/07/23	04/07/23 13:14	BEP	MS-A1	1
1	B163593-BS1	LCS	EPA-TO-15-SIM	04/07/23	04/07/23 13:14	BEP	MS-A1	1
1	B163593-BS1	LCS	EPA-TO-15-SIM	04/07/23	04/07/23 13:14	BEP	MS-A1	1
1	B163593-BS1	LCS	EPA-TO-15-SIM	04/07/23	04/07/23 13:14	BEP	MS-A1	1
1	B163593-BS1	LCS	EPA-TO-15-SIM	04/07/23	04/07/23 13:14	BEP	MS-A1	1
1	B163593-BS1	LCS	EPA-TO-15-SIM	04/07/23	04/07/23 13:14	BEP	MS-A1	1
1	B163593-BS1	LCS	EPA-TO-15-SIM	04/07/23	04/07/23 13:14	BEP	MS-A1	1
1	B163593-BS1	LCS	EPA-TO-15-SIM	04/07/23	04/07/23 13:14	BEP	MS-A1	1
1	B163593-BS1	LCS	EPA-TO-15-SIM	04/07/23	04/07/23 13:14	BEP	MS-A1	1
1	B163593-BS1	LCS	EPA-TO-15-SIM	04/07/23	04/07/23 13:14	BEP	MS-A1	1
1	B163593-BS1	LCS	EPA-TO-15-SIM	04/07/23	04/07/23 13:14	BEP	MS-A1	1
1	B163593-BS1	LCS	EPA-TO-15-SIM	04/07/23	04/07/23 13:14	BEP	MS-A1	1
1	B163593-BS1	LCS	EPA-TO-15-SIM	04/07/23	04/07/23 13:14	BEP	MS-A1	1
1	B163593-BS1	LCS	EPA-TO-15-SIM	04/07/23	04/07/23 13:14	BEP	MS-A1	1
1	B163593-BS1	LCS	EPA-TO-15-SIM	04/07/23	04/07/23 13:14	BEP	MS-A1	1
1	B163593-BS1	LCS	EPA-TO-15-SIM	04/07/23	04/07/23 13:14	BEP	MS-A1	1
1	B163593-BS1	LCS	EPA-TO-15-SIM	04/07/23	04/07/23 13:14	BEP	MS-A1	1
1	B163593-BS1	LCS	EPA-TO-15-SIM	04/07/23	04/07/23 13:14	BEP	MS-A1	1
1	B163593-BS1	LCS	EPA-TO-15-SIM	04/07/23	04/07/23 13:14	BEP	MS-A1	1
1	B163593-BS1	LCS	EPA-TO-15-SIM	04/07/23	04/07/23 13:14	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1

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Reported: 04/11/2023 8:16
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
2	B163593-BSD1	LCSD	EPA-TO-15-SIM	04/07/23	04/07/23 13:47	BEP	MS-A1	1
3	B163615-BS1	LCS	EPA-TO-15	04/07/23	04/07/23 14:29	BEP	MS-A2	1
3	B163615-BS1	LCS	EPA-TO-15	04/07/23	04/07/23 14:29	BEP	MS-A2	1
3	B163615-BS1	LCS	EPA-TO-15	04/07/23	04/07/23 14:29	BEP	MS-A2	1
3	B163615-BS1	LCS	EPA-TO-15	04/07/23	04/07/23 14:29	BEP	MS-A2	1
3	B163615-BS1	LCS	EPA-TO-15	04/07/23	04/07/23 14:29	BEP	MS-A2	1
3	B163615-BS1	LCS	EPA-TO-15	04/07/23	04/07/23 14:29	BEP	MS-A2	1
3	B163615-BS1	LCS	EPA-TO-15	04/07/23	04/07/23 14:29	BEP	MS-A2	1
3	B163615-BS1	LCS	EPA-TO-15	04/07/23	04/07/23 14:29	BEP	MS-A2	1
3	B163615-BS1	LCS	EPA-TO-15	04/07/23	04/07/23 14:29	BEP	MS-A2	1
3	B163615-BS1	LCS	EPA-TO-15	04/07/23	04/07/23 14:29	BEP	MS-A2	1
3	B163615-BS1	LCS	EPA-TO-15	04/07/23	04/07/23 14:29	BEP	MS-A2	1
4	B163615-BSD1	LCSD	EPA-TO-15	04/07/23	04/07/23 15:08	BEP	MS-A2	1
4	B163615-BSD1	LCSD	EPA-TO-15	04/07/23	04/07/23 15:08	BEP	MS-A2	1
4	B163615-BSD1	LCSD	EPA-TO-15	04/07/23	04/07/23 15:08	BEP	MS-A2	1
4	B163615-BSD1	LCSD	EPA-TO-15	04/07/23	04/07/23 15:08	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/11/2023 8:16
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
4	B163615-BSD1	LCSD	EPA-TO-15	04/07/23	04/07/23 15:08	BEP	MS-A2	1
4	B163615-BSD1	LCSD	EPA-TO-15	04/07/23	04/07/23 15:08	BEP	MS-A2	1
4	B163615-BSD1	LCSD	EPA-TO-15	04/07/23	04/07/23 15:08	BEP	MS-A2	1
4	B163615-BSD1	LCSD	EPA-TO-15	04/07/23	04/07/23 15:08	BEP	MS-A2	1
4	B163615-BSD1	LCSD	EPA-TO-15	04/07/23	04/07/23 15:08	BEP	MS-A2	1
4	B163615-BSD1	LCSD	EPA-TO-15	04/07/23	04/07/23 15:08	BEP	MS-A2	1
4	B163615-BSD1	LCSD	EPA-TO-15	04/07/23	04/07/23 15:08	BEP	MS-A2	1
4	B163615-BSD1	LCSD	EPA-TO-15	04/07/23	04/07/23 15:08	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B163589

Methane (CH4)	B163589-BLK1	ND	ppmv	2.0	1.8		1
---------------	--------------	----	------	-----	-----	--	---

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B163589-BLK1	PB	ASTM-D1946	04/07/23	04/07/23 13:22	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/11/2023 8:16
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B163589											
Methane (CH4)	B163589-BS1	LCS	18037	18000	ppmv	100		70 - 130			1
	B163589-BSD1	LCSD	18006	18000	ppmv	100	0.2	70 - 130	30		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B163589-BS1	LCS	ASTM-D1946	04/07/23	04/07/23	12:42	RMK	GC-A1	1
2	B163589-BSD1	LCSD	ASTM-D1946	04/07/23	04/07/23	13:02	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/11/2023 8:16
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

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



Date of Report: 04/03/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304046
Invoice ID: B470973, B471951, B472842

Enclosed are the results of analyses for samples received by the laboratory on 2/27/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001408461

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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document

AIR: CHAIN-OF-CUSTODY
The Chain-of-Custody is a LEGAL DOCUMENT.



23-04046

Section A Required Client Information:
Company: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450
Long Beach, CA 90804
Email To: amcguire@rouxinc.com
Phone: 562-448-8804 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:
Report To: April McGuire
Copy To:
Purchase Order No.:
Project Name: City Terrace
Project Number: 21855

Section C Invoice Information:
Attention: Roux Accounts Payable (rouxap@rouxinc.com)
Company Name: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
Pace Quote Reference: 00132481-44444444
Pace Project Manager/Sales Rep: Brianna Schultz / Dawn Ginnor
Pace Profile #:

Program
 LIST Superfund Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other
Reporting Units
 ppm_v mg/m³
 ppbv ppmV Other
Location of Sampling by State CA
Report Level I, II, III, IV, Other

ITEM #	COLLECTED		Summa Can Number	Flow Control Number	Pace Lab ID
	DATE	TIME			
1	AA-18-1	11:30 AM	0619	06428	
2	JA-18-1	12:25 PM	0681	07629	
3	IA-18-1-0	1:00 PM	0745	10012	
4	IA-18-2	1:30 PM	0801	13686	
5	SA-18-1	1:45 PM	10835	1439	
6	SA-18-2	1:48 PM	10384	1280	

CHK BY: APR DISTRIBUTION
SUB OUT

REINQUIRED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Carson Jones (Roux)	2/24/23	1817	Alex Peckham (Roux)	2/28/23	1812	Temp in C: <input type="checkbox"/> YN Received on Ice: <input type="checkbox"/> YN Sealed Cooler: <input type="checkbox"/> YN Samples Intact: <input type="checkbox"/> YN
Alex Peckham (Roux)	2/28/23	933	April McGuire (Roux)	2-24-23	0933	
April McGuire (Roux)	2-24-23	1100	Gabe Bleamly	2-24-23	1100	
Gabe Bleamly - Roux	2-27-23	1515	Gabe Bleamly	2/28/23	1515	

3-2-2023 1900

SAMPLER NAME AND SIGNATURE
 SIGNATURE OF SAMPLER: [Signature]
 DATE SAMPLED: 2/28/23
 TIME: 1500

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PAGE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>							
Submission #: <u>23-04046</u>											
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S						
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUMMA</u> Thermometer ID: _____ Temperature: (A) <u>ROOM</u> °C / (C) <u>TEMP</u> °C		Date/Time <u>6/27/23</u> Analyst Init <u>JDL</u>							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr ⁶⁺											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz. NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PIA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 564											
QT EPA 508608.318081A											
QT EPA 515.108151A											
QT EPA 525.2											
QT EPA 525.2 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548.1											
QT EPA 549.2											
QT EPA 8015M											
QT EPA 8270C											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER	A	A	A	A	A	A					

Comments: _____
 Sample Numbering Completed By: JPO Date/Time: 2/27/23 14:15
 A = Actual / C = Corrected

Rev 23 05/20/22

[E:\WPDoc\Work\PerfectLAB_DOC\FORMS\549REV23] 23



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2304046-01	COC Number:	---	02/27/2023	19:00
	Project Number:	---	Sampling Date:	02/22/2023 11:57
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AA-18-1	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
2304046-02	COC Number:	---	02/27/2023	19:00
	Project Number:	---	Sampling Date:	02/22/2023 15:01
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-18-1	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
2304046-03	COC Number:	---	02/27/2023	19:00
	Project Number:	---	Sampling Date:	02/22/2023 15:01
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-18-1-D	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
2304046-04	COC Number:	---	02/27/2023	19:00
	Project Number:	---	Sampling Date:	02/22/2023 15:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-18-2	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
2304046-05	COC Number:	---	02/27/2023	19:00
	Project Number:	---	Sampling Date:	02/23/2023 17:42
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-18-1	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
2304046-06	COC Number:	---	02/27/2023	19:00
	Project Number:	---	Sampling Date:	02/23/2023 18:09
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-18-2	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-01		Client Sample Name: AA-18-1, 2/22/2023 11:57:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	5.4	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	3.2	ug/m3	2.0	0.015	EPA-TO-15-SIM	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.42	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.43	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	3.0	ug/m3	0.10	0.010	EPA-TO-15-SIM	ND		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-01		Client Sample Name: AA-18-1, 2/22/2023 11:57:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	0.76	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	2.6	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.12	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	1.2	ug/m3	2.0	0.32	EPA-TO-15	ND	J	1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-01		Client Sample Name: AA-18-1, 2/22/2023 11:57:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	0.53	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	0.60	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.63	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
p- & m-Xylenes	0.42	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.15	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1
Total Xylenes	0.56	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	96.9	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	93.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	97.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-01		Client Sample Name: AA-18-1, 2/22/2023 11:57:00AM							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/17/23 13:06	03/18/23 09:05	BEP	MS-A2	1	B162153	EPA TO-15	
2	EPA-TO-15-SIM	02/28/23 13:11	03/01/23 02:52	BEP	MS-A1	2	B160945	EPA TO-15	
3	EPA-TO-15-SIM	02/28/23 13:11	03/01/23 00:29	BEP	MS-A1	1	B160945	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304046-01	Client Sample Name: AA-18-1, 2/22/2023 11:57:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.2	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/20/23 08:27	03/20/23 16:29	RMK	GC-A1	1	B162267	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-02		Client Sample Name: IA-18-1, 2/22/2023 3:01:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	12	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	7.8	ug/m3	10	0.075	EPA-TO-15-SIM	ND	J	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.48	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.52	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	3.4	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND		2

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-02		Client Sample Name: IA-18-1, 2/22/2023 3:01:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	0.34	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	2.0	ug/m3	50	0.027	EPA-TO-15-SIM	ND	J	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	52	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	1.7	ug/m3	2.0	0.33	EPA-TO-15	ND	J	1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.15	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	76	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-02		Client Sample Name: IA-18-1, 2/22/2023 3:01:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	0.72	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	0.82	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.2	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.63	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
p- & m-Xylenes	0.48	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.17	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1
Total Xylenes	0.65	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	97.9	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	92.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	96.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-02		Client Sample Name: IA-18-1, 2/22/2023 3:01:00PM							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/17/23 13:06	03/18/23 09:48	BEP	MS-A2	1	B162153	EPA TO-15	
2	EPA-TO-15-SIM	02/28/23 13:11	03/01/23 03:22	BEP	MS-A1	10	B160945	EPA TO-15	
3	EPA-TO-15-SIM	02/28/23 13:11	03/01/23 01:05	BEP	MS-A1	1	B160945	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304046-02	Client Sample Name: IA-18-1, 2/22/2023 3:01:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	6.3	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/20/23 08:29	03/20/23 17:50	RMK	GC-A1	1	B162298	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-03		Client Sample Name: IA-18-1-D, 2/22/2023 3:01:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	11	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	6.8	ug/m3	10	0.075	EPA-TO-15-SIM	ND	J	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.51	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.54	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	1.9	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	3.0	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-03		Client Sample Name: IA-18-1-D, 2/22/2023 3:01:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	1.7	ug/m3	50	0.027	EPA-TO-15-SIM	ND	J	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	61	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	1.8	ug/m3	2.0	0.33	EPA-TO-15	ND	J	1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.16	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	76	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-03		Client Sample Name: IA-18-1-D, 2/22/2023 3:01:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	0.72	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	0.86	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.2	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.66	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
p- & m-Xylenes	0.52	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.19	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1
Total Xylenes	0.71	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	97.6	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	90.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	96.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
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Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-03		Client Sample Name: IA-18-1-D, 2/22/2023 3:01:00PM							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/17/23 13:06	03/18/23 10:34	BEP	MS-A2	1	B162153	EPA TO-15	
2	EPA-TO-15-SIM	02/28/23 13:11	03/01/23 03:52	BEP	MS-A1	10	B160945	EPA TO-15	
3	EPA-TO-15-SIM	02/28/23 13:11	03/01/23 01:42	BEP	MS-A1	1	B160945	EPA TO-15	

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304046-03	Client Sample Name: IA-18-1-D, 2/22/2023 3:01:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	8.5	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/20/23 08:29	03/20/23 18:11	RMK	GC-A1	1	B162298	No Prep

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-04		Client Sample Name: IA-18-2, 2/22/2023 3:00:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	16	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	9.8	ug/m3	10	0.075	EPA-TO-15-SIM	ND	J	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.48	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.51	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	V11	1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.2	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.0	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	3.4	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND		2

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Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-04		Client Sample Name: IA-18-2, 2/22/2023 3:00:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	0.53	ug/m3	5.0	0.26	EPA-TO-15	ND	J	1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	2.6	ug/m3	5.0	2.0	EPA-TO-15	ND	J	1
1,1-Difluoroethane	3.1	ug/m3	50	0.027	EPA-TO-15-SIM	ND	J	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	98	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	1.5	ug/m3	2.0	0.33	EPA-TO-15	ND	J	1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.15	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	0.41	ug/m3	2.0	0.34	EPA-TO-15	ND	J	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	140	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-04		Client Sample Name: IA-18-2, 2/22/2023 3:00:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	0.75	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	0.90	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.2	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.65	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
p- & m-Xylenes	0.50	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.18	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1
Total Xylenes	0.68	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	100	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	92.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	99.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-04	Client Sample Name: IA-18-2, 2/22/2023 3:00:00PM
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DCN	Method	Prep Date		Run		Analyst	Instrument	Dilution	QC	
				Date/Time	Date/Time				Batch ID	
1	EPA-TO-15	03/20/23	08:01	03/20/23	16:17	BEP	MS-A2	1	B162268	EPA TO-15
2	EPA-TO-15-SIM	02/28/23	13:11	03/01/23	04:22	BEP	MS-A1	10	B160945	EPA TO-15
3	EPA-TO-15-SIM	02/28/23	13:11	03/01/23	02:19	BEP	MS-A1	1	B160945	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304046-04	Client Sample Name: IA-18-2, 2/22/2023 3:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	30	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/20/23 08:29	03/20/23 18:31	RMK	GC-A1	1	B162298	No Prep

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-05		Client Sample Name: SV-18-1, 2/23/2023 5:42:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	21	ug/m3	8.2	0.70	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.3	0.46	EPA-TO-15	ND	A01	1
Benzene	9.5	ug/m3	3.3	0.34	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.42	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.2	0.73	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.3	0.77	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.3	0.36	EPA-TO-15	ND	A01	1
Carbon disulfide	11	ug/m3	3.3	0.31	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.2	0.73	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.2	0.65	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.3	0.86	EPA-TO-15	ND	A01	1
Chloroform	3.1	ug/m3	8.2	0.88	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.3	0.34	EPA-TO-15	ND	A01	1
Cyclohexane	0.79	ug/m3	3.3	0.62	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	8.2	0.70	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.2	0.95	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.2	0.82	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.2	0.51	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.2	0.82	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.5	ug/m3	8.2	0.73	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.2	0.37	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.2	0.42	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.2	0.51	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.3	0.52	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.2	0.52	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.2	0.49	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.2	0.65	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.2	1.5	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.2	3.3	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-05		Client Sample Name: SV-18-1, 2/23/2023 5:42:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	8.0	ug/m3	3.3	0.68	EPA-TO-15	ND	A01	1
Ethyl acetate	4.7	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	1
Ethylbenzene	2.3	ug/m3	8.2	0.52	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	1.0	ug/m3	8.2	0.49	EPA-TO-15	ND	J,A01	1
n-Heptane	12	ug/m3	3.3	0.55	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	1
Hexane	2.6	ug/m3	8.2	0.33	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	8.2	0.47	EPA-TO-15	ND	A01	1
Isopropyl alcohol	47	ug/m3	3.3	0.52	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.65	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	3.4	ug/m3	3.3	0.31	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ug/m3	8.2	0.42	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	1.1	ug/m3	3.3	0.46	EPA-TO-15	ND	J,A01	1
Propylene	ND	ug/m3	3.3	0.41	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	8.2	0.39	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.2	0.77	EPA-TO-15	ND	A01	1
Tetrachloroethene	2.2	ug/m3	3.3	0.82	EPA-TO-15	ND	J,A01	1
Tetrahydrofuran	ND	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	1
Toluene	21	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.2	0.64	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.2	0.99	EPA-TO-15	ND	A01	1
Trichloroethene	1.8	ug/m3	3.3	0.88	EPA-TO-15	ND	J,A01	1
Trichlorofluoromethane	1.5	ug/m3	8.2	0.77	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.2	0.90	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	2.0	ug/m3	8.2	0.65	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.2	0.65	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.3	0.64	EPA-TO-15	ND	A01	1
p- & m-Xylenes	8.3	ug/m3	8.2	0.99	EPA-TO-15	ND	A01	1
o-Xylene	2.8	ug/m3	8.2	0.49	EPA-TO-15	ND	J,A01	1
Total Xylenes	11	ug/m3	16	1.5	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	91.9	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-05	Client Sample Name: SV-18-1, 2/23/2023 5:42:00PM
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	02/28/23 13:55	03/01/23 11:58	BEP	MS-A2	1.630	B160936 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-06		Client Sample Name: SV-18-2, 2/23/2023 6:09:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	120	ug/m3	7.8	0.67	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.1	0.44	EPA-TO-15	ND	A01	1
Benzene	6.3	ug/m3	3.1	0.33	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.41	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	7.8	0.70	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.1	0.73	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.1	0.34	EPA-TO-15	ND	A01	1
Carbon disulfide	10	ug/m3	3.1	0.30	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	7.8	0.70	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	7.8	0.62	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.1	0.83	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	7.8	0.84	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	3.1	0.33	EPA-TO-15	ND	A01	1
Cyclohexane	0.97	ug/m3	3.1	0.59	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	7.8	0.67	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	7.8	0.90	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	7.8	0.78	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	7.8	0.48	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	7.8	0.78	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.6	ug/m3	7.8	0.70	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	7.8	0.36	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	7.8	0.41	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	7.8	0.48	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.1	0.50	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	7.8	0.50	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	7.8	0.47	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	7.8	0.62	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	7.8	1.4	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	7.8	3.1	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.1	0.51	EPA-TO-15	ND	A01	1

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-06		Client Sample Name: SV-18-2, 2/23/2023 6:09:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	57	ug/m3	3.1	0.66	EPA-TO-15	ND	A01	1
Ethyl acetate	1.7	ug/m3	3.1	0.51	EPA-TO-15	ND	J,A01	1
Ethylbenzene	0.75	ug/m3	7.8	0.50	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	0.77	ug/m3	7.8	0.47	EPA-TO-15	ND	J,A01	1
n-Heptane	9.7	ug/m3	3.1	0.53	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.3	EPA-TO-15	ND	A01	1
Hexane	4.5	ug/m3	7.8	0.31	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	7.8	0.45	EPA-TO-15	ND	A01	1
Isopropyl alcohol	10	ug/m3	3.1	0.50	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.62	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	5.9	ug/m3	3.1	0.30	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ug/m3	7.8	0.41	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	3.1	0.44	EPA-TO-15	ND	A01	1
Propylene	2.0	ug/m3	3.1	0.39	EPA-TO-15	ND	J,A01	1
Styrene	ND	ug/m3	7.8	0.37	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	7.8	0.73	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.1	0.78	EPA-TO-15	ND	A01	1
Tetrahydrofuran	1.0	ug/m3	3.1	0.42	EPA-TO-15	ND	J,A01	1
Toluene	4.7	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	7.8	0.61	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	7.8	0.95	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.1	0.84	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.5	ug/m3	7.8	0.73	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	7.8	0.86	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.2	ug/m3	7.8	0.62	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	7.8	0.62	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.1	0.51	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.1	0.61	EPA-TO-15	ND	A01	1
p- & m-Xylenes	2.6	ug/m3	7.8	0.95	EPA-TO-15	ND	J,A01	1
o-Xylene	1.0	ug/m3	7.8	0.47	EPA-TO-15	ND	J,A01	1
Total Xylenes	3.7	ug/m3	16	1.4	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	90.4	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304046-06	Client Sample Name: SV-18-2, 2/23/2023 6:09:00PM
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	02/28/23 13:55	03/01/23 12:41	BEP	MS-A2	1.560	B160936 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B160936							
Acetone	B160936-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B160936-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B160936-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B160936-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B160936-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B160936-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B160936-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B160936-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B160936-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B160936-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B160936-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B160936-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B160936-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B160936-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B160936-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B160936-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B160936-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B160936-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B160936-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B160936-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B160936-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B160936-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B160936-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B160936-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B160936-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B160936-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B160936-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B160936-BLK1	ND	ug/m3	2.0	0.42		1

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B160936							
Ethyl acetate	B160936-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B160936-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B160936-BLK1	ND	ug/m3	10	1.5		1
Hexane	B160936-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B160936-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B160936-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B160936-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B160936-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B160936-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B160936-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B160936-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B160936-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B160936-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B160936-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B160936-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B160936-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B160936-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B160936-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B160936-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B160936-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B160936-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B160936-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B160936-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B160936-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B160936-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B160936-BLK1	92.0	%	70 - 130 (LCL - UCL)			1
QC Batch ID: B160945							

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B160945							
Acetone	B160945-BLK1	ND	ug/m3	1.0	0.0075		2
Benzene	B160945-BLK1	ND	ug/m3	0.050	0.0032		2
Benzyl chloride	B160945-BLK1	ND	ug/m3	0.50	0.0052		2
Carbon tetrachloride	B160945-BLK1	ND	ug/m3	0.20	0.0063		2
Chlorobenzene	B160945-BLK1	ND	ug/m3	0.10	0.0079		2
Chloroform	B160945-BLK1	ND	ug/m3	0.050	0.0058		2
1,2-Dibromoethane	B160945-BLK1	ND	ug/m3	0.20	0.014		2
1,2-Dichlorobenzene	B160945-BLK1	ND	ug/m3	0.20	0.011		2
1,3-Dichlorobenzene	B160945-BLK1	ND	ug/m3	0.20	0.013		2
1,4-Dichlorobenzene	B160945-BLK1	ND	ug/m3	0.20	0.016		2
Dichlorodifluoromethane	B160945-BLK1	ND	ug/m3	0.050	0.0052		2
1,1-Dichloroethane	B160945-BLK1	ND	ug/m3	0.050	0.0041		2
1,2-Dichloroethane	B160945-BLK1	ND	ug/m3	0.10	0.0046		2
1,1-Dichloroethene	B160945-BLK1	ND	ug/m3	0.050	0.0078		2
cis-1,2-Dichloroethene	B160945-BLK1	ND	ug/m3	0.050	0.0044		2
trans-1,2-Dichloroethene	B160945-BLK1	ND	ug/m3	0.050	0.0075		2
trans-1,3-Dichloropropene	B160945-BLK1	ND	ug/m3	0.050	0.013		2
1,1-Difluoroethane	B160945-BLK1	ND	ug/m3	5.0	0.0027		2
Ethylbenzene	B160945-BLK1	ND	ug/m3	0.050	0.017		2
Methylene chloride	B160945-BLK1	ND	ug/m3	0.20	0.0077		2
Tetrachloroethene	B160945-BLK1	ND	ug/m3	0.10	0.011		2
Toluene	B160945-BLK1	ND	ug/m3	0.10	0.0062		2
1,1,1-Trichloroethane	B160945-BLK1	ND	ug/m3	0.10	0.0055		2
1,1,2-Trichloroethane	B160945-BLK1	ND	ug/m3	0.10	0.0055		2
Trichloroethene	B160945-BLK1	ND	ug/m3	0.10	0.0095		2
Trichlorofluoromethane	B160945-BLK1	ND	ug/m3	0.050	0.0057		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B160945-BLK1	ND	ug/m3	0.10	0.0078		2
Vinyl chloride	B160945-BLK1	ND	ug/m3	0.020	0.0046		2
p- & m-Xylenes	B160945-BLK1	ND	ug/m3	0.050	0.0082		2
o-Xylene	B160945-BLK1	ND	ug/m3	0.050	0.0044		2
Total Xylenes	B160945-BLK1	ND	ug/m3	0.10	0.013		2
4-Bromofluorobenzene (Surrogate)	B160945-BLK1	87.6	%	50 - 150 (LCL - UCL)			2
QC Batch ID: B162153							

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Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162153							
Acetone	B162153-BLK1	ND	ug/m3	5.0	0.43		3
Acrylonitrile	B162153-BLK1	ND	ug/m3	2.0	0.27		3
Allyl chloride	B162153-BLK1	ND	ug/m3	2.0	0.28		3
Benzene	B162153-BLK1	ND	ug/m3	2.0	0.21		3
Benzyl chloride	B162153-BLK1	ND	ug/m3	10	0.26		3
Bromodichloromethane	B162153-BLK1	ND	ug/m3	5.0	0.45		3
Bromoform	B162153-BLK1	ND	ug/m3	10	0.86		3
Bromomethane	B162153-BLK1	ND	ug/m3	2.0	0.47		3
1,3-Butadiene	B162153-BLK1	ND	ug/m3	2.0	0.22		3
Carbon disulfide	B162153-BLK1	ND	ug/m3	2.0	0.19		3
Carbon tetrachloride	B162153-BLK1	ND	ug/m3	5.0	0.45		3
Chlorobenzene	B162153-BLK1	ND	ug/m3	5.0	0.40		3
Chloroethane	B162153-BLK1	ND	ug/m3	2.0	0.53		3
Chloroform	B162153-BLK1	ND	ug/m3	5.0	0.54		3
Chloromethane	B162153-BLK1	ND	ug/m3	2.0	0.21		3
Cyclohexane	B162153-BLK1	ND	ug/m3	2.0	0.38		3
Dibromochloromethane	B162153-BLK1	ND	ug/m3	5.0	0.43		3
1,2-Dibromoethane	B162153-BLK1	ND	ug/m3	5.0	0.58		3
1,2-Dichlorobenzene	B162153-BLK1	ND	ug/m3	5.0	0.50		3
1,3-Dichlorobenzene	B162153-BLK1	ND	ug/m3	5.0	0.31		3
1,4-Dichlorobenzene	B162153-BLK1	ND	ug/m3	5.0	0.50		3
Dichlorodifluoromethane	B162153-BLK1	ND	ug/m3	5.0	0.45		3
1,1-Dichloroethane	B162153-BLK1	ND	ug/m3	5.0	0.23		3
1,2-Dichloroethane	B162153-BLK1	ND	ug/m3	5.0	0.26		3
1,1-Dichloroethene	B162153-BLK1	ND	ug/m3	5.0	0.31		3
cis-1,2-Dichloroethene	B162153-BLK1	ND	ug/m3	2.0	0.32		3
trans-1,2-Dichloroethene	B162153-BLK1	ND	ug/m3	2.0	0.27		3
1,2-Dichloropropane	B162153-BLK1	ND	ug/m3	5.0	0.32		3
cis-1,3-Dichloropropene	B162153-BLK1	ND	ug/m3	5.0	0.30		3
trans-1,3-Dichloropropene	B162153-BLK1	ND	ug/m3	5.0	0.40		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162153-BLK1	ND	ug/m3	5.0	0.91		3
1,1-Difluoroethane	B162153-BLK1	ND	ug/m3	5.0	2.0		3
1,4-Dioxane	B162153-BLK1	ND	ug/m3	2.0	0.33		3
Ethanol	B162153-BLK1	ND	ug/m3	2.0	0.42		3

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Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162153							
Ethyl acetate	B162153-BLK1	ND	ug/m3	2.0	0.33		3
Ethylbenzene	B162153-BLK1	ND	ug/m3	5.0	0.32		3
1-Ethyl-4-methylbenzene	B162153-BLK1	ND	ug/m3	5.0	0.30		3
n-Heptane	B162153-BLK1	ND	ug/m3	2.0	0.34		3
Hexachlorobutadiene	B162153-BLK1	ND	ug/m3	10	1.5		3
Hexane	B162153-BLK1	ND	ug/m3	5.0	0.20		3
2-Hexanone	B162153-BLK1	ND	ug/m3	5.0	0.29		3
Isopropyl alcohol	B162153-BLK1	ND	ug/m3	2.0	0.32		3
Methylene chloride	B162153-BLK1	ND	ug/m3	10	0.40		3
Methyl ethyl ketone	B162153-BLK1	ND	ug/m3	2.0	0.19		3
Methyl isobutyl ketone	B162153-BLK1	ND	ug/m3	5.0	0.26		3
Methyl t-butyl ether	B162153-BLK1	ND	ug/m3	2.0	0.28		3
Propylene	B162153-BLK1	ND	ug/m3	2.0	0.25	C01	3
Styrene	B162153-BLK1	ND	ug/m3	5.0	0.24		3
1,1,2,2-Tetrachloroethane	B162153-BLK1	ND	ug/m3	5.0	0.47		3
Tetrachloroethene	B162153-BLK1	ND	ug/m3	2.0	0.50		3
Tetrahydrofuran	B162153-BLK1	ND	ug/m3	2.0	0.27		3
Toluene	B162153-BLK1	ND	ug/m3	2.0	0.27		3
1,2,4-Trichlorobenzene	B162153-BLK1	ND	ug/m3	10	0.82		3
1,1,1-Trichloroethane	B162153-BLK1	ND	ug/m3	5.0	0.39		3
1,1,2-Trichloroethane	B162153-BLK1	ND	ug/m3	5.0	0.61		3
Trichloroethene	B162153-BLK1	ND	ug/m3	2.0	0.54		3
Trichlorofluoromethane	B162153-BLK1	ND	ug/m3	5.0	0.47		3
1,1,2-Trichloro-1,2,2-trifluoroethane	B162153-BLK1	ND	ug/m3	5.0	0.55		3
1,2,4-Trimethylbenzene	B162153-BLK1	ND	ug/m3	5.0	0.40		3
1,3,5-Trimethylbenzene	B162153-BLK1	ND	ug/m3	5.0	0.40		3
Vinyl acetate	B162153-BLK1	ND	ug/m3	2.0	0.33		3
Vinyl chloride	B162153-BLK1	ND	ug/m3	2.0	0.39		3
p- & m-Xylenes	B162153-BLK1	ND	ug/m3	5.0	0.61		3
o-Xylene	B162153-BLK1	ND	ug/m3	5.0	0.30		3
Total Xylenes	B162153-BLK1	ND	ug/m3	10	0.91		3
4-Bromofluorobenzene (Surrogate)	B162153-BLK1	95.5	%	70 - 130 (LCL - UCL)			3
QC Batch ID: B162268							

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Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162268							
Acetone	B162268-BLK1	ND	ug/m3	5.0	0.43		4
Acrylonitrile	B162268-BLK1	ND	ug/m3	2.0	0.27		4
Allyl chloride	B162268-BLK1	ND	ug/m3	2.0	0.28		4
Benzene	B162268-BLK1	ND	ug/m3	2.0	0.21		4
Benzyl chloride	B162268-BLK1	ND	ug/m3	10	0.26		4
Bromodichloromethane	B162268-BLK1	ND	ug/m3	5.0	0.45		4
Bromoform	B162268-BLK1	ND	ug/m3	10	0.86		4
Bromomethane	B162268-BLK1	ND	ug/m3	2.0	0.47		4
1,3-Butadiene	B162268-BLK1	ND	ug/m3	2.0	0.22		4
Carbon disulfide	B162268-BLK1	ND	ug/m3	2.0	0.19		4
Carbon tetrachloride	B162268-BLK1	ND	ug/m3	5.0	0.45		4
Chlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.40		4
Chloroethane	B162268-BLK1	ND	ug/m3	2.0	0.53		4
Chloroform	B162268-BLK1	ND	ug/m3	5.0	0.54		4
Chloromethane	B162268-BLK1	ND	ug/m3	2.0	0.21		4
Cyclohexane	B162268-BLK1	ND	ug/m3	2.0	0.38		4
Dibromochloromethane	B162268-BLK1	ND	ug/m3	5.0	0.43		4
1,2-Dibromoethane	B162268-BLK1	ND	ug/m3	5.0	0.58		4
1,2-Dichlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.50		4
1,3-Dichlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.31		4
1,4-Dichlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.50		4
Dichlorodifluoromethane	B162268-BLK1	ND	ug/m3	5.0	0.45		4
1,1-Dichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.23		4
1,2-Dichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.26		4
1,1-Dichloroethene	B162268-BLK1	ND	ug/m3	5.0	0.31		4
cis-1,2-Dichloroethene	B162268-BLK1	ND	ug/m3	2.0	0.32		4
trans-1,2-Dichloroethene	B162268-BLK1	ND	ug/m3	2.0	0.27		4
1,2-Dichloropropane	B162268-BLK1	ND	ug/m3	5.0	0.32		4
cis-1,3-Dichloropropene	B162268-BLK1	ND	ug/m3	5.0	0.30		4
trans-1,3-Dichloropropene	B162268-BLK1	ND	ug/m3	5.0	0.40		4
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162268-BLK1	ND	ug/m3	5.0	0.91		4
1,1-Difluoroethane	B162268-BLK1	ND	ug/m3	5.0	2.0		4
1,4-Dioxane	B162268-BLK1	ND	ug/m3	2.0	0.33		4
Ethanol	B162268-BLK1	ND	ug/m3	2.0	0.42		4

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162268							
Ethyl acetate	B162268-BLK1	ND	ug/m3	2.0	0.33		4
Ethylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.32		4
1-Ethyl-4-methylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.30		4
n-Heptane	B162268-BLK1	ND	ug/m3	2.0	0.34		4
Hexachlorobutadiene	B162268-BLK1	ND	ug/m3	10	1.5		4
Hexane	B162268-BLK1	ND	ug/m3	5.0	0.20		4
2-Hexanone	B162268-BLK1	ND	ug/m3	5.0	0.29		4
Isopropyl alcohol	B162268-BLK1	ND	ug/m3	2.0	0.32		4
Methylene chloride	B162268-BLK1	ND	ug/m3	10	0.40		4
Methyl ethyl ketone	B162268-BLK1	ND	ug/m3	2.0	0.19		4
Methyl isobutyl ketone	B162268-BLK1	ND	ug/m3	5.0	0.26		4
Methyl t-butyl ether	B162268-BLK1	ND	ug/m3	2.0	0.28		4
Propylene	B162268-BLK1	ND	ug/m3	2.0	0.25	C01	4
Styrene	B162268-BLK1	ND	ug/m3	5.0	0.24		4
1,1,2,2-Tetrachloroethane	B162268-BLK1	ND	ug/m3	5.0	0.47		4
Tetrachloroethene	B162268-BLK1	ND	ug/m3	2.0	0.50		4
Tetrahydrofuran	B162268-BLK1	ND	ug/m3	2.0	0.27		4
Toluene	B162268-BLK1	ND	ug/m3	2.0	0.27		4
1,2,4-Trichlorobenzene	B162268-BLK1	ND	ug/m3	10	0.82		4
1,1,1-Trichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.39		4
1,1,2-Trichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.61		4
Trichloroethene	B162268-BLK1	ND	ug/m3	2.0	0.54		4
Trichlorofluoromethane	B162268-BLK1	ND	ug/m3	5.0	0.47		4
1,1,2-Trichloro-1,2,2-trifluoroethane	B162268-BLK1	ND	ug/m3	5.0	0.55		4
1,2,4-Trimethylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.40		4
1,3,5-Trimethylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.40		4
Vinyl acetate	B162268-BLK1	ND	ug/m3	2.0	0.33		4
Vinyl chloride	B162268-BLK1	ND	ug/m3	2.0	0.39		4
p- & m-Xylenes	B162268-BLK1	ND	ug/m3	5.0	0.61		4
o-Xylene	B162268-BLK1	ND	ug/m3	5.0	0.30		4
Total Xylenes	B162268-BLK1	ND	ug/m3	10	0.91		4
4-Bromofluorobenzene (Surrogate)	B162268-BLK1	97.1	%	70 - 130 (LCL - UCL)			4

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Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1

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Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run	Analyst	Instrument	Dilution
					Date Time			
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1

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Reported: 04/03/2023 13:02
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Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run	Analyst	Instrument	Dilution
					Date Time			
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1
4	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1

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Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B160936											
Benzene	B160936-BS1	LCS	14.888	15.974	ug/m3	93.2		70 - 130			1
	B160936-BSD1	LCSD	14.664	15.974	ug/m3	91.8	1.5	70 - 130	30		2
Chloroform	B160936-BS1	LCS	24.999	24.413	ug/m3	102		70 - 130			1
	B160936-BSD1	LCSD	24.999	24.413	ug/m3	102	0	70 - 130	30		2
Ethylbenzene	B160936-BS1	LCS	21.971	21.711	ug/m3	101		70 - 130			1
	B160936-BSD1	LCSD	21.884	21.711	ug/m3	101	0.4	70 - 130	30		2
Tetrachloroethene	B160936-BS1	LCS	36.015	33.913	ug/m3	106		70 - 130			1
	B160936-BSD1	LCSD	36.015	33.913	ug/m3	106	0	70 - 130	30		2
Toluene	B160936-BS1	LCS	19.784	18.842	ug/m3	105		70 - 130			1
	B160936-BSD1	LCSD	19.407	18.842	ug/m3	103	1.9	70 - 130	30		2
Trichloroethene	B160936-BS1	LCS	28.051	26.869	ug/m3	104		70 - 130			1
	B160936-BSD1	LCSD	27.943	26.869	ug/m3	104	0.4	70 - 130	30		2
Trichlorofluoromethane	B160936-BS1	LCS	30.901	28.092	ug/m3	110		70 - 130			1
	B160936-BSD1	LCSD	31.238	28.092	ug/m3	111	1.1	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B160936-BS1	LCS	37.782	38.318	ug/m3	98.6		70 - 130			1
	B160936-BSD1	LCSD	37.322	38.318	ug/m3	97.4	1.2	70 - 130	30		2
p- & m-Xylenes	B160936-BS1	LCS	47.069	43.421	ug/m3	108		70 - 130			1
	B160936-BSD1	LCSD	47.242	43.421	ug/m3	109	0.4	70 - 130	30		2
o-Xylene	B160936-BS1	LCS	23.751	21.711	ug/m3	109		70 - 130			1
	B160936-BSD1	LCSD	23.925	21.711	ug/m3	110	0.7	70 - 130	30		2
Total Xylenes	B160936-BS1	LCS	70.820	65.132	ug/m3	109		70 - 130			1
	B160936-BSD1	LCSD	71.167	65.132	ug/m3	109	0.5	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B160936-BS1	LCS	73.6	71.6	ug/m3	103		70 - 130			1
	B160936-BSD1	LCSD	74.4	71.6	ug/m3	104	1.0	70 - 130			2
QC Batch ID: B160945											
Benzene	B160945-BS1	LCS	0.29865	0.31948	ug/m3	93.5		70 - 130			3
	B160945-BSD1	LCSD	0.29865	0.31948	ug/m3	93.5	0	70 - 130	30		4
Benzyl chloride	B160945-BS1	LCS	0.39901	0.51772	ug/m3	77.1		70 - 130		J	3
	B160945-BSD1	LCSD	0.37794	0.51772	ug/m3	73.0	5.4	70 - 130	30	J	4
Carbon tetrachloride	B160945-BS1	LCS	0.56182	0.62913	ug/m3	89.3		70 - 130			3
	B160945-BSD1	LCSD	0.55571	0.62913	ug/m3	88.3	1.1	70 - 130	30		4
Chlorobenzene	B160945-BS1	LCS	0.44673	0.46036	ug/m3	97.0		70 - 130			3
	B160945-BSD1	LCSD	0.44277	0.46036	ug/m3	96.2	0.9	70 - 130	30		4
Chloroform	B160945-BS1	LCS	0.47614	0.48825	ug/m3	97.5		70 - 130			3
	B160945-BSD1	LCSD	0.48122	0.48825	ug/m3	98.6	1.1	70 - 130	30		4
1,2-Dibromoethane	B160945-BS1	LCS	0.74607	0.76835	ug/m3	97.1		70 - 130			3
	B160945-BSD1	LCSD	0.73377	0.76835	ug/m3	95.5	1.7	70 - 130	30		4

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B160945											
1,2-Dichlorobenzene	B160945-BS1	LCS	0.59961	0.60124	ug/m3	99.7		70 - 130			3
	B160945-BSD1	LCSD	0.57670	0.60124	ug/m3	95.9	3.9	70 - 130	30		4
1,3-Dichlorobenzene	B160945-BS1	LCS	0.62414	0.60124	ug/m3	104		70 - 130			3
	B160945-BSD1	LCSD	0.56438	0.60124	ug/m3	93.9	10.1	70 - 130	30		4
1,4-Dichlorobenzene	B160945-BS1	LCS	0.54911	0.60124	ug/m3	91.3		70 - 130			3
	B160945-BSD1	LCSD	0.62480	0.60124	ug/m3	104	12.9	70 - 130	30		4
1,1-Dichloroethane	B160945-BS1	LCS	0.39397	0.40474	ug/m3	97.3		70 - 130			3
	B160945-BSD1	LCSD	0.39665	0.40474	ug/m3	98.0	0.7	70 - 130	30		4
1,2-Dichloroethane	B160945-BS1	LCS	0.37916	0.40474	ug/m3	93.7		70 - 130			3
	B160945-BSD1	LCSD	0.37738	0.40474	ug/m3	93.2	0.5	70 - 130	30		4
1,1-Dichloroethene	B160945-BS1	LCS	0.38535	0.39649	ug/m3	97.2		70 - 130			3
	B160945-BSD1	LCSD	0.38682	0.39649	ug/m3	97.6	0.4	70 - 130	30		4
cis-1,2-Dichloroethene	B160945-BS1	LCS	0.37231	0.39649	ug/m3	93.9		70 - 130			3
	B160945-BSD1	LCSD	0.37243	0.39649	ug/m3	93.9	0.0	70 - 130	30		4
Methylene chloride	B160945-BS1	LCS	0.37173	0.34737	ug/m3	107		70 - 130			3
	B160945-BSD1	LCSD	0.37593	0.34737	ug/m3	108	1.1	70 - 130	30		4
Tetrachloroethene	B160945-BS1	LCS	0.66903	0.67825	ug/m3	98.6		70 - 130			3
	B160945-BSD1	LCSD	0.66333	0.67825	ug/m3	97.8	0.9	70 - 130	30		4
Toluene	B160945-BS1	LCS	0.35518	0.37684	ug/m3	94.2		70 - 130			3
	B160945-BSD1	LCSD	0.35303	0.37684	ug/m3	93.7	0.6	70 - 130	30		4
1,1,1-Trichloroethane	B160945-BS1	LCS	0.51632	0.54562	ug/m3	94.6		70 - 130			3
	B160945-BSD1	LCSD	0.51201	0.54562	ug/m3	93.8	0.8	70 - 130	30		4
1,1,2-Trichloroethane	B160945-BS1	LCS	0.53143	0.54562	ug/m3	97.4		70 - 130			3
	B160945-BSD1	LCSD	0.52821	0.54562	ug/m3	96.8	0.6	70 - 130	30		4
Trichloroethene	B160945-BS1	LCS	0.52980	0.53737	ug/m3	98.6		70 - 130			3
	B160945-BSD1	LCSD	0.52458	0.53737	ug/m3	97.6	1.0	70 - 130	30		4
Vinyl chloride	B160945-BS1	LCS	0.29603	0.25562	ug/m3	116		70 - 130			3
	B160945-BSD1	LCSD	0.31226	0.25562	ug/m3	122	5.3	70 - 130	30		4
p- & m-Xylenes	B160945-BS1	LCS	0.85622	0.86843	ug/m3	98.6		70 - 130			3
	B160945-BSD1	LCSD	0.84372	0.86843	ug/m3	97.2	1.5	70 - 130	30		4
o-Xylene	B160945-BS1	LCS	0.42735	0.43421	ug/m3	98.4		70 - 130			3
	B160945-BSD1	LCSD	0.42275	0.43421	ug/m3	97.4	1.1	70 - 130	30		4
Total Xylenes	B160945-BS1	LCS	1.2836	1.3026	ug/m3	98.5		70 - 130			3
	B160945-BSD1	LCSD	1.2665	1.3026	ug/m3	97.2	1.3	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B160945-BS1	LCS	3.48	3.58	ug/m3	97.3		50 - 150			3
	B160945-BSD1	LCSD	3.46	3.58	ug/m3	96.7	0.6	50 - 150			4

QC Batch ID: B162153

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B162153											
Benzene	B162153-BS1	LCS	14.313	15.974	ug/m3	89.6		70 - 130			5
	B162153-BSD1	LCSD	14.472	15.974	ug/m3	90.6	1.1	70 - 130	30		6
Chloroform	B162153-BS1	LCS	21.190	24.413	ug/m3	86.8		70 - 130			5
	B162153-BSD1	LCSD	21.239	24.413	ug/m3	87.0	0.2	70 - 130	30		6
Ethylbenzene	B162153-BS1	LCS	19.887	21.711	ug/m3	91.6		70 - 130			5
	B162153-BSD1	LCSD	19.670	21.711	ug/m3	90.6	1.1	70 - 130	30		6
Tetrachloroethene	B162153-BS1	LCS	30.725	33.913	ug/m3	90.6		70 - 130			5
	B162153-BSD1	LCSD	30.996	33.913	ug/m3	91.4	0.9	70 - 130	30		6
Toluene	B162153-BS1	LCS	17.448	18.842	ug/m3	92.6		70 - 130			5
	B162153-BSD1	LCSD	17.410	18.842	ug/m3	92.4	0.2	70 - 130	30		6
Trichloroethene	B162153-BS1	LCS	24.665	26.869	ug/m3	91.8		70 - 130			5
	B162153-BSD1	LCSD	24.397	26.869	ug/m3	90.8	1.1	70 - 130	30		6
Trichlorofluoromethane	B162153-BS1	LCS	24.046	28.092	ug/m3	85.6		70 - 130			5
	B162153-BSD1	LCSD	24.496	28.092	ug/m3	87.2	1.9	70 - 130	30		6
1,1,2-Trichloro-1,2,2-trifluoroethane	B162153-BS1	LCS	33.797	38.318	ug/m3	88.2		70 - 130			5
	B162153-BSD1	LCSD	34.256	38.318	ug/m3	89.4	1.4	70 - 130	30		6
p- & m-Xylenes	B162153-BS1	LCS	40.946	43.421	ug/m3	94.3		70 - 130			5
	B162153-BSD1	LCSD	40.425	43.421	ug/m3	93.1	1.3	70 - 130	30		6
o-Xylene	B162153-BS1	LCS	20.104	21.711	ug/m3	92.6		70 - 130			5
	B162153-BSD1	LCSD	20.017	21.711	ug/m3	92.2	0.4	70 - 130	30		6
Total Xylenes	B162153-BS1	LCS	61.050	65.132	ug/m3	93.7		70 - 130			5
	B162153-BSD1	LCSD	60.442	65.132	ug/m3	92.8	1.0	70 - 130	30		6
4-Bromofluorobenzene (Surrogate)	B162153-BS1	LCS	73.6	71.6	ug/m3	103		70 - 130			5
	B162153-BSD1	LCSD	73.9	71.6	ug/m3	103	0.3	70 - 130			6
QC Batch ID: B162268											
Benzene	B162268-BS1	LCS	15.590	15.974	ug/m3	97.6		70 - 130			7
	B162268-BSD1	LCSD	15.718	15.974	ug/m3	98.4	0.8	70 - 130	30		8
Chloroform	B162268-BS1	LCS	23.436	24.413	ug/m3	96.0		70 - 130			7
	B162268-BSD1	LCSD	23.631	24.413	ug/m3	96.8	0.8	70 - 130	30		8
Ethylbenzene	B162268-BS1	LCS	20.712	21.711	ug/m3	95.4		70 - 130			7
	B162268-BSD1	LCSD	21.146	21.711	ug/m3	97.4	2.1	70 - 130	30		8
Tetrachloroethene	B162268-BS1	LCS	33.641	33.913	ug/m3	99.2		70 - 130			7
	B162268-BSD1	LCSD	34.184	33.913	ug/m3	101	1.6	70 - 130	30		8
Toluene	B162268-BS1	LCS	18.805	18.842	ug/m3	99.8		70 - 130			7
	B162268-BSD1	LCSD	19.219	18.842	ug/m3	102	2.2	70 - 130	30		8
Trichloroethene	B162268-BS1	LCS	26.815	26.869	ug/m3	99.8		70 - 130			7
	B162268-BSD1	LCSD	27.406	26.869	ug/m3	102	2.2	70 - 130	30		8

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162268											
Trichlorofluoromethane	B162268-BS1	LCS	27.137	28.092	ug/m3	96.6		70 - 130			7
	B162268-BSD1	LCSD	27.249	28.092	ug/m3	97.0	0.4	70 - 130	30		8
1,1,2-Trichloro-1,2,2-trifluoroethane	B162268-BS1	LCS	37.015	38.318	ug/m3	96.6		70 - 130			7
	B162268-BSD1	LCSD	37.322	38.318	ug/m3	97.4	0.8	70 - 130	30		8
p- & m-Xylenes	B162268-BS1	LCS	43.378	43.421	ug/m3	99.9		70 - 130			7
	B162268-BSD1	LCSD	44.680	43.421	ug/m3	103	3.0	70 - 130	30		8
o-Xylene	B162268-BS1	LCS	21.190	21.711	ug/m3	97.6		70 - 130			7
	B162268-BSD1	LCSD	22.058	21.711	ug/m3	102	4.0	70 - 130	30		8
Total Xylenes	B162268-BS1	LCS	64.567	65.132	ug/m3	99.1		70 - 130			7
	B162268-BSD1	LCSD	66.738	65.132	ug/m3	102	3.3	70 - 130	30		8
4-Bromofluorobenzene (Surrogate)	B162268-BS1	LCS	72.7	71.6	ug/m3	102		70 - 130			7
	B162268-BSD1	LCSD	73.9	71.6	ug/m3	103	1.7	70 - 130			8

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Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
7	B162268-BS1	LCS	EPA-TO-15	03/20/23	03/20/23	13:31	BEP	MS-A2	1
7	B162268-BS1	LCS	EPA-TO-15	03/20/23	03/20/23	13:31	BEP	MS-A2	1
7	B162268-BS1	LCS	EPA-TO-15	03/20/23	03/20/23	13:31	BEP	MS-A2	1
7	B162268-BS1	LCS	EPA-TO-15	03/20/23	03/20/23	13:31	BEP	MS-A2	1
7	B162268-BS1	LCS	EPA-TO-15	03/20/23	03/20/23	13:31	BEP	MS-A2	1
7	B162268-BS1	LCS	EPA-TO-15	03/20/23	03/20/23	13:31	BEP	MS-A2	1
7	B162268-BS1	LCS	EPA-TO-15	03/20/23	03/20/23	13:31	BEP	MS-A2	1
7	B162268-BS1	LCS	EPA-TO-15	03/20/23	03/20/23	13:31	BEP	MS-A2	1
7	B162268-BS1	LCS	EPA-TO-15	03/20/23	03/20/23	13:31	BEP	MS-A2	1
7	B162268-BS1	LCS	EPA-TO-15	03/20/23	03/20/23	13:31	BEP	MS-A2	1
7	B162268-BS1	LCS	EPA-TO-15	03/20/23	03/20/23	13:31	BEP	MS-A2	1
7	B162268-BS1	LCS	EPA-TO-15	03/20/23	03/20/23	13:31	BEP	MS-A2	1
7	B162268-BS1	LCS	EPA-TO-15	03/20/23	03/20/23	13:31	BEP	MS-A2	1
7	B162268-BS1	LCS	EPA-TO-15	03/20/23	03/20/23	13:31	BEP	MS-A2	1
8	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23	14:14	BEP	MS-A2	1
8	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23	14:14	BEP	MS-A2	1
8	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23	14:14	BEP	MS-A2	1
8	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23	14:14	BEP	MS-A2	1
8	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23	14:14	BEP	MS-A2	1
8	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23	14:14	BEP	MS-A2	1
8	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23	14:14	BEP	MS-A2	1
8	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23	14:14	BEP	MS-A2	1
8	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23	14:14	BEP	MS-A2	1
8	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23	14:14	BEP	MS-A2	1
8	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23	14:14	BEP	MS-A2	1
8	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23	14:14	BEP	MS-A2	1
8	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23	14:14	BEP	MS-A2	1
8	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23	14:14	BEP	MS-A2	1
8	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23	14:14	BEP	MS-A2	1
8	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23	14:14	BEP	MS-A2	1
8	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23	14:14	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B162267

Methane (CH4)	B162267-BLK1	ND	ppmv	2.0	1.8		1
---------------	--------------	----	------	-----	-----	--	---

QC Batch ID: B162298

Methane (CH4)	B162298-BLK1	ND	ppmv	2.0	1.8		2
---------------	--------------	----	------	-----	-----	--	---

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162267-BLK1	PB	ASTM-D1946	03/20/23	03/20/23 12:26	RMK	GC-A1	1
2	B162298-BLK1	PB	ASTM-D1946	03/20/23	03/20/23 17:30	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162267											
Methane (CH4)	B162267-BS1	LCS	19441	18000	ppmv	108		70 - 130			1
	B162267-BSD1	LCSD	19386	18000	ppmv	108	0.3	70 - 130	30		2
QC Batch ID: B162298											
Methane (CH4)	B162298-BS1	LCS	19907	18000	ppmv	111		70 - 130			3
	B162298-BSD1	LCSD	19827	18000	ppmv	110	0.4	70 - 130	30		4

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162267-BS1	LCS	ASTM-D1946	03/20/23	03/20/23	11:46	RMK	GC-A1	1
2	B162267-BSD1	LCSD	ASTM-D1946	03/20/23	03/20/23	12:06	RMK	GC-A1	1
3	B162298-BS1	LCS	ASTM-D1946	03/20/23	03/20/23	16:50	RMK	GC-A1	1
4	B162298-BSD1	LCSD	ASTM-D1946	03/20/23	03/20/23	17:10	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- C01 The calibration curve did not contain the minimum number of standards.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Date of Report: 04/03/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304750
Invoice ID: B471457, B471958, B472850

Enclosed are the results of analyses for samples received by the laboratory on 3/8/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001408468

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / Analytical F

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed. **2304750**

Section A Required Client Information:

Company: Roux
 Address: 5150 E. Pacific Coast Hwy, Ste. 450 Long Beach, CA 90804
 Email To: amcguire@rouxinc.com
 Phone: 562-445-8624 Fax: _____
 Requested Due Date/TAE: Standard

Section B Required Project Information:

Report To: Ard McGuire
 Copy To: _____
 Purchase Order No.: _____
 Project Name: City Terrace
 Project Number: 2855

Section C Invoice Information:

Attention: Roux Accounts Payable (rouxap@rouxinc.com)
 Company Name: Roux
 Address: 5150 E. Pacific Coast Hwy, Ste. 450 Long Beach, CA 90804
 PACE Quote Reference: 00132481 & 00132533
 PACE Project Manager/Sales Rep: Brianna Schutte / Dawn Grisar
 PACE Profile # _____

Section D Required Client Information

AIR SAMPLE ID
 Sample IDs MUST BE UNIQUE

Valid Media Codes:
 M205 _____ CODE
 Tether Bag _____ TB
 1 Liter Sorbent Can _____ LC
 1 Liter Sorbent Jar _____ LJ
 Low Volume Dye Jar _____ LVJ
 High Volume Dye Jar _____ HVP
 Other _____

PTD Reading (Client only): _____
 MEDIA CODE: 64
 DATE/TIME: 3-6-23 1507
 DATE/TIME: 3-7-23 1234
 DATE/TIME: 1524
 DATE/TIME: 1522
 DATE/TIME: 1536
 DATE/TIME: 1535

Method:
 PM10 _____
 SC Feed Gas (%) _____
 TO-3 _____
 TO-3A (methane) _____
 TO-13 (Pb) _____
 TO-14 _____
 TO-15 _____
 TO-15 Short Lar _____
 TO-15 SIA _____

Flow Control Number:
 Summa Can Number: 8344
0786
8340
 Catalyst Pressure (Initial Field - psig): -30
-30
-30
 Catalyst Pressure (Final Field - psig): -4
-5
-5

Report Level: II. _____ III. _____ IV. _____ Other _____

Location of Sampling by State: CA
 Reporting Units: ppm
ppbv
ppmv
Other

Program:
 UST Superfund Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other

RELINQUISHED BY / AFFILIATION **DATE** **TIME** **ACCEPTED BY / AFFILIATION** **DATE** **TIME** **SAMPLE CONDITIONS**

<u>Janice Roux</u>	<u>3-7-23</u>	<u>1555</u>	<u>Dawn Grisar</u>	<u>3-7-23</u>	<u>1555</u>	Temp in °C
<u>Janice Roux</u>	<u>3-7-23</u>	<u>1630</u>	<u>Dawn Grisar</u>	<u>3-8-23</u>	<u>1557</u>	Received on Ice
						Sealed Cooler
						Custody
						Samples Intact

SAMPLER NAME AND SIGNATURE
 (Print Name of Collector) Janice Roux
 SIGNATURE OF SAMPLER [Signature] DATE (MM/DD/YYYY) 3/7/23

Comments: _____

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 of 1							
Submission #: <u>23-04750</u>											
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S						
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments:											
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>											
All samples received? Yes <input type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Summa</u> Thermometer ID: _____		Date/Time: <u>3-8-23</u>							
		Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Analyst Init: <u>SWH/1157</u>							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr ⁶⁺											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
P/A PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 524											
QT EPA 505/608.1/8051A											
QT EPA 515.1/8151A											
QT EPA 525.2											
QT EPA 525.2 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548.1											
QT EPA 519.2											
QT EPA 8015M											
QT EPA 8270C											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER											

Comments: _____
 Sample Numbering Completed By: MAJ Date/Time: 3/8/23 12:40
 A = Actual / C = Corrected

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304750-01	COC Number:	---	Receive Date:	03/08/2023 11:57
	Project Number:	---	Sampling Date:	03/06/2023 12:34
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AA-19-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2304750-02	COC Number:	---	Receive Date:	03/08/2023 11:57
	Project Number:	---	Sampling Date:	03/06/2023 13:36
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-19-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2304750-03	COC Number:	---	Receive Date:	03/08/2023 11:57
	Project Number:	---	Sampling Date:	03/06/2023 13:35
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-19-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304750-01		Client Sample Name: AA-19-1, 3/6/2023 12:34:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	5.9	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	2.6	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.61	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.59	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	V11	1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
Chloromethane	1.2	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.2	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304750-01		Client Sample Name: AA-19-1, 3/6/2023 12:34:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	0.26	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	4.9	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.21	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	1.9	ug/m3	2.0	0.32	EPA-TO-15	ND	J	1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Methyl ethyl ketone	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304750-01		Client Sample Name: AA-19-1, 3/6/2023 12:34:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	0.98	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	0.99	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
p- & m-Xylenes	0.75	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.26	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1
Total Xylenes	1.0	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	97.2	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	106	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304750-01	Client Sample Name: AA-19-1, 3/6/2023 12:34:00PM, Client								
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/20/23 08:01	03/20/23 21:27	BEP	MS-A2	1	B162268	EPA TO-15	
2	EPA-TO-15-SIM	03/09/23 11:50	03/09/23 19:33	BEP	MS-A2	1	B161559	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304750-01	Client Sample Name: AA-19-1, 3/6/2023 12:34:00PM, Client
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.0	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/21/23 08:25	03/21/23 22:47	RMK	GC-A1	1	B162383	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304750-02		Client Sample Name: IA-19-1, 3/6/2023 1:36:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	130	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	72	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.83	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.79	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	V11	1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.2	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.2	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304750-02		Client Sample Name: IA-19-1, 3/6/2023 1:36:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	34	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	39	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	540	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	2.7	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.42	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	0.45	ug/m3	2.0	0.34	EPA-TO-15	ND	J	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	47	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	2.2	ug/m3	10	0.40	EPA-TO-15	ND	J	1
Methylene chloride	2.6	ug/m3	4.0	0.15	EPA-TO-15-SIM	ND	J,A01	2
Methyl ethyl ketone	2.3	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304750-02		Client Sample Name: IA-19-1, 3/6/2023 1:36:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	1.8	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.8	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	1.5	ug/m3	2.0	0.33	EPA-TO-15	ND	J	1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.1	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.4	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.43	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
o-Xylene	0.56	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	1.5	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	2.0	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	98.0	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	102	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	114	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304750-02		Client Sample Name: IA-19-1, 3/6/2023 1:36:00PM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/20/23 08:01	03/20/23 22:12	BEP	MS-A2	1	B162268	EPA TO-15	
2	EPA-TO-15-SIM	03/09/23 11:50	03/09/23 21:36	BEP	MS-A2	20	B161559	EPA TO-15	
3	EPA-TO-15-SIM	03/09/23 11:50	03/09/23 20:16	BEP	MS-A2	1	B161559	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304750-02	Client Sample Name: IA-19-1, 3/6/2023 1:36:00PM, Client
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	86	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/21/23 08:25	03/21/23 23:08	RMK	GC-A1	1	B162383	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304750-03		Client Sample Name: IA-19-2, 3/6/2023 1:35:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	17	ug/m3	20	0.15	EPA-TO-15-SIM	ND	J,A01	1
Acetone	44	ug/m3	5.0	0.43	EPA-TO-15	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		2
Benzene	0.89	ug/m3	2.0	0.21	EPA-TO-15	ND	J	2
Benzene	0.84	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		2
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	V11	2
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		2
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		2
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		2
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		2
Chloroform	0.63	ug/m3	5.0	0.54	EPA-TO-15	ND	J	2
Chloroform	0.70	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.2	ug/m3	2.0	0.21	EPA-TO-15	ND	J	2
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		2
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		2
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	2
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304750-03		Client Sample Name: IA-19-2, 3/6/2023 1:35:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		2
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		2
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		2
1,1-Difluoroethane	45	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	1
1,1-Difluoroethane	55	ug/m3	5.0	2.0	EPA-TO-15	ND		2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Ethanol	380	ug/m3	2.0	0.42	EPA-TO-15	ND		2
Ethyl acetate	2.3	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		2
Ethylbenzene	0.42	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		2
n-Heptane	0.45	ug/m3	2.0	0.34	EPA-TO-15	ND	J	2
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		2
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		2
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		2
Isopropyl alcohol	48	ug/m3	2.0	0.32	EPA-TO-15	ND		2
Methylene chloride	2.3	ug/m3	4.0	0.15	EPA-TO-15-SIM	ND	J,A01	1
Methylene chloride	2.7	ug/m3	10	0.40	EPA-TO-15	ND	J	2
Methyl ethyl ketone	2.2	ug/m3	2.0	0.19	EPA-TO-15	ND		2
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		2
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		2

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Roux Associates, Inc -Long Beach
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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID:	2304750-03	Client Sample Name:	IA-19-2, 3/6/2023 1:35:00PM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	2
Styrene	0.47	ug/m3	5.0	0.24	EPA-TO-15	ND	J	2
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		2
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		2
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	0.65	ug/m3	2.0	0.27	EPA-TO-15	ND	J	2
Toluene	1.9	ug/m3	2.0	0.27	EPA-TO-15	ND	J	2
Toluene	1.8	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		2
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		2
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		2
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	2
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		2
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.1	ug/m3	5.0	0.61	EPA-TO-15	ND	J	2
p- & m-Xylenes	1.4	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.52	ug/m3	5.0	0.30	EPA-TO-15	ND	J	2
o-Xylene	0.65	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	1.7	ug/m3	10	0.91	EPA-TO-15	ND	J	2
Total Xylenes	2.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	91.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	100	%	70 - 130 (LCL - UCL)		EPA-TO-15			2
4-Bromofluorobenzene (Surrogate)	118	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Reported: 04/03/2023 13:14
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304750-03		Client Sample Name: IA-19-2, 3/6/2023 1:35:00PM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15-SIM	03/09/23 11:50	03/10/23 00:23	BEP	MS-A2	20	B161559	EPA TO-15	
2	EPA-TO-15	03/20/23 08:01	03/20/23 22:58	BEP	MS-A2	1	B162268	EPA TO-15	
3	EPA-TO-15-SIM	03/09/23 11:50	03/09/23 20:58	BEP	MS-A2	1	B161559	EPA TO-15	

DCN = Data Continuation Number

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Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304750-03	Client Sample Name: IA-19-2, 3/6/2023 1:35:00PM, Client
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	3.7	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/21/23 08:25	03/21/23 23:28	RMK	GC-A1	1	B162383	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161559							
Acetone	B161559-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B161559-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B161559-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B161559-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B161559-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B161559-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B161559-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B161559-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B161559-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B161559-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B161559-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B161559-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B161559-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B161559-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B161559-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B161559-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B161559-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B161559-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B161559-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B161559-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B161559-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B161559-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B161559-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B161559-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B161559-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B161559-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161559-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B161559-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B161559-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B161559-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B161559-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B161559-BLK1	101	%	50 - 150 (LCL - UCL)			1
QC Batch ID: B162268							

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162268							
Acetone	B162268-BLK1	ND	ug/m3	5.0	0.43		2
Acrylonitrile	B162268-BLK1	ND	ug/m3	2.0	0.27		2
Allyl chloride	B162268-BLK1	ND	ug/m3	2.0	0.28		2
Benzene	B162268-BLK1	ND	ug/m3	2.0	0.21		2
Benzyl chloride	B162268-BLK1	ND	ug/m3	10	0.26		2
Bromodichloromethane	B162268-BLK1	ND	ug/m3	5.0	0.45		2
Bromoform	B162268-BLK1	ND	ug/m3	10	0.86		2
Bromomethane	B162268-BLK1	ND	ug/m3	2.0	0.47		2
1,3-Butadiene	B162268-BLK1	ND	ug/m3	2.0	0.22		2
Carbon disulfide	B162268-BLK1	ND	ug/m3	2.0	0.19		2
Carbon tetrachloride	B162268-BLK1	ND	ug/m3	5.0	0.45		2
Chlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.40		2
Chloroethane	B162268-BLK1	ND	ug/m3	2.0	0.53		2
Chloroform	B162268-BLK1	ND	ug/m3	5.0	0.54		2
Chloromethane	B162268-BLK1	ND	ug/m3	2.0	0.21		2
Cyclohexane	B162268-BLK1	ND	ug/m3	2.0	0.38		2
Dibromochloromethane	B162268-BLK1	ND	ug/m3	5.0	0.43		2
1,2-Dibromoethane	B162268-BLK1	ND	ug/m3	5.0	0.58		2
1,2-Dichlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.50		2
1,3-Dichlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.31		2
1,4-Dichlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.50		2
Dichlorodifluoromethane	B162268-BLK1	ND	ug/m3	5.0	0.45		2
1,1-Dichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.23		2
1,2-Dichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.26		2
1,1-Dichloroethene	B162268-BLK1	ND	ug/m3	5.0	0.31		2
cis-1,2-Dichloroethene	B162268-BLK1	ND	ug/m3	2.0	0.32		2
trans-1,2-Dichloroethene	B162268-BLK1	ND	ug/m3	2.0	0.27		2
1,2-Dichloropropane	B162268-BLK1	ND	ug/m3	5.0	0.32		2
cis-1,3-Dichloropropene	B162268-BLK1	ND	ug/m3	5.0	0.30		2
trans-1,3-Dichloropropene	B162268-BLK1	ND	ug/m3	5.0	0.40		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162268-BLK1	ND	ug/m3	5.0	0.91		2
1,1-Difluoroethane	B162268-BLK1	ND	ug/m3	5.0	2.0		2
1,4-Dioxane	B162268-BLK1	ND	ug/m3	2.0	0.33		2
Ethanol	B162268-BLK1	ND	ug/m3	2.0	0.42		2

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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162268							
Ethyl acetate	B162268-BLK1	ND	ug/m3	2.0	0.33		2
Ethylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.32		2
1-Ethyl-4-methylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.30		2
n-Heptane	B162268-BLK1	ND	ug/m3	2.0	0.34		2
Hexachlorobutadiene	B162268-BLK1	ND	ug/m3	10	1.5		2
Hexane	B162268-BLK1	ND	ug/m3	5.0	0.20		2
2-Hexanone	B162268-BLK1	ND	ug/m3	5.0	0.29		2
Isopropyl alcohol	B162268-BLK1	ND	ug/m3	2.0	0.32		2
Methylene chloride	B162268-BLK1	ND	ug/m3	10	0.40		2
Methyl ethyl ketone	B162268-BLK1	ND	ug/m3	2.0	0.19		2
Methyl isobutyl ketone	B162268-BLK1	ND	ug/m3	5.0	0.26		2
Methyl t-butyl ether	B162268-BLK1	ND	ug/m3	2.0	0.28		2
Propylene	B162268-BLK1	ND	ug/m3	2.0	0.25	C01	2
Styrene	B162268-BLK1	ND	ug/m3	5.0	0.24		2
1,1,2,2-Tetrachloroethane	B162268-BLK1	ND	ug/m3	5.0	0.47		2
Tetrachloroethene	B162268-BLK1	ND	ug/m3	2.0	0.50		2
Tetrahydrofuran	B162268-BLK1	ND	ug/m3	2.0	0.27		2
Toluene	B162268-BLK1	ND	ug/m3	2.0	0.27		2
1,2,4-Trichlorobenzene	B162268-BLK1	ND	ug/m3	10	0.82		2
1,1,1-Trichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.39		2
1,1,2-Trichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.61		2
Trichloroethene	B162268-BLK1	ND	ug/m3	2.0	0.54		2
Trichlorofluoromethane	B162268-BLK1	ND	ug/m3	5.0	0.47		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B162268-BLK1	ND	ug/m3	5.0	0.55		2
1,2,4-Trimethylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.40		2
1,3,5-Trimethylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.40		2
Vinyl acetate	B162268-BLK1	ND	ug/m3	2.0	0.33		2
Vinyl chloride	B162268-BLK1	ND	ug/m3	2.0	0.39		2
p- & m-Xylenes	B162268-BLK1	ND	ug/m3	5.0	0.61		2
o-Xylene	B162268-BLK1	ND	ug/m3	5.0	0.30		2
Total Xylenes	B162268-BLK1	ND	ug/m3	10	0.91		2
4-Bromofluorobenzene (Surrogate)	B162268-BLK1	97.1	%	70 - 130 (LCL - UCL)			2

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Reported: 04/03/2023 13:14
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161559-BLK1	PB	EPA-TO-15-SIM	03/09/23	03/09/23 17:37	BEP	MS-A2	1
2	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1

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Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161559											
Benzene	B161559-BS1	LCS	0.29159	0.31948	ug/m3	91.3		70 - 130			1
	B161559-BSD1	LCSD	0.29136	0.31948	ug/m3	91.2	0.1	70 - 130	30		2
Benzyl chloride	B161559-BS1	LCS	0.49706	0.51772	ug/m3	96.0		70 - 130		J	1
	B161559-BSD1	LCSD	0.47579	0.51772	ug/m3	91.9	4.4	70 - 130	30	J	2
Carbon tetrachloride	B161559-BS1	LCS	0.62454	0.62913	ug/m3	99.3		70 - 130			1
	B161559-BSD1	LCSD	0.62838	0.62913	ug/m3	99.9	0.6	70 - 130	30		2
Chlorobenzene	B161559-BS1	LCS	0.45147	0.46036	ug/m3	98.1		70 - 130			1
	B161559-BSD1	LCSD	0.44829	0.46036	ug/m3	97.4	0.7	70 - 130	30		2
Chloroform	B161559-BS1	LCS	0.48137	0.48825	ug/m3	98.6		70 - 130			1
	B161559-BSD1	LCSD	0.48196	0.48825	ug/m3	98.7	0.1	70 - 130	30		2
1,2-Dibromoethane	B161559-BS1	LCS	0.76635	0.76835	ug/m3	99.7		70 - 130			1
	B161559-BSD1	LCSD	0.76251	0.76835	ug/m3	99.2	0.5	70 - 130	30		2
1,2-Dichlorobenzene	B161559-BS1	LCS	0.60033	0.60124	ug/m3	99.8		70 - 130			1
	B161559-BSD1	LCSD	0.60881	0.60124	ug/m3	101	1.4	70 - 130	30		2
1,3-Dichlorobenzene	B161559-BS1	LCS	0.59733	0.60124	ug/m3	99.4		70 - 130			1
	B161559-BSD1	LCSD	0.61548	0.60124	ug/m3	102	3.0	70 - 130	30		2
1,4-Dichlorobenzene	B161559-BS1	LCS	0.60983	0.60124	ug/m3	101		70 - 130			1
	B161559-BSD1	LCSD	0.60087	0.60124	ug/m3	99.9	1.5	70 - 130	30		2
1,1-Dichloroethane	B161559-BS1	LCS	0.38539	0.40474	ug/m3	95.2		70 - 130			1
	B161559-BSD1	LCSD	0.38276	0.40474	ug/m3	94.6	0.7	70 - 130	30		2
1,2-Dichloroethane	B161559-BS1	LCS	0.39701	0.40474	ug/m3	98.1		70 - 130			1
	B161559-BSD1	LCSD	0.39462	0.40474	ug/m3	97.5	0.6	70 - 130	30		2
1,1-Dichloroethene	B161559-BS1	LCS	0.37128	0.39649	ug/m3	93.6		70 - 130			1
	B161559-BSD1	LCSD	0.36811	0.39649	ug/m3	92.8	0.9	70 - 130	30		2
cis-1,2-Dichloroethene	B161559-BS1	LCS	0.37274	0.39649	ug/m3	94.0		70 - 130			1
	B161559-BSD1	LCSD	0.37100	0.39649	ug/m3	93.6	0.5	70 - 130	30		2
Methylene chloride	B161559-BS1	LCS	0.36092	0.34737	ug/m3	104		70 - 130			1
	B161559-BSD1	LCSD	0.36026	0.34737	ug/m3	104	0.2	70 - 130	30		2
Tetrachloroethene	B161559-BS1	LCS	0.66374	0.67825	ug/m3	97.9		70 - 130			1
	B161559-BSD1	LCSD	0.65818	0.67825	ug/m3	97.0	0.8	70 - 130	30		2
Toluene	B161559-BS1	LCS	0.34496	0.37684	ug/m3	91.5		70 - 130			1
	B161559-BSD1	LCSD	0.34300	0.37684	ug/m3	91.0	0.6	70 - 130	30		2
1,1,1-Trichloroethane	B161559-BS1	LCS	0.54185	0.54562	ug/m3	99.3		70 - 130			1
	B161559-BSD1	LCSD	0.53935	0.54562	ug/m3	98.8	0.5	70 - 130	30		2
1,1,2-Trichloroethane	B161559-BS1	LCS	0.53847	0.54562	ug/m3	98.7		70 - 130			1
	B161559-BSD1	LCSD	0.53749	0.54562	ug/m3	98.5	0.2	70 - 130	30		2

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Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161559											
Trichloroethene	B161559-BS1	LCS	0.51626	0.53737	ug/m3	96.1		70 - 130			1
	B161559-BSD1	LCSD	0.51411	0.53737	ug/m3	95.7	0.4	70 - 130	30		2
Vinyl chloride	B161559-BS1	LCS	0.26479	0.25562	ug/m3	104		70 - 130			1
	B161559-BSD1	LCSD	0.27180	0.25562	ug/m3	106	2.6	70 - 130	30		2
p- & m-Xylenes	B161559-BS1	LCS	0.83391	0.86843	ug/m3	96.0		70 - 130			1
	B161559-BSD1	LCSD	0.83156	0.86843	ug/m3	95.8	0.3	70 - 130	30		2
o-Xylene	B161559-BS1	LCS	0.40690	0.43421	ug/m3	93.7		70 - 130			1
	B161559-BSD1	LCSD	0.40421	0.43421	ug/m3	93.1	0.7	70 - 130	30		2
Total Xylenes	B161559-BS1	LCS	1.2408	1.3026	ug/m3	95.3		70 - 130			1
	B161559-BSD1	LCSD	1.2358	1.3026	ug/m3	94.9	0.4	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161559-BS1	LCS	3.83	3.58	ug/m3	107		50 - 150			1
	B161559-BSD1	LCSD	3.82	3.58	ug/m3	107	0.2	50 - 150			2
QC Batch ID: B162268											
Benzene	B162268-BS1	LCS	15.590	15.974	ug/m3	97.6		70 - 130			3
	B162268-BSD1	LCSD	15.718	15.974	ug/m3	98.4	0.8	70 - 130	30		4
Chloroform	B162268-BS1	LCS	23.436	24.413	ug/m3	96.0		70 - 130			3
	B162268-BSD1	LCSD	23.631	24.413	ug/m3	96.8	0.8	70 - 130	30		4
Ethylbenzene	B162268-BS1	LCS	20.712	21.711	ug/m3	95.4		70 - 130			3
	B162268-BSD1	LCSD	21.146	21.711	ug/m3	97.4	2.1	70 - 130	30		4
Tetrachloroethene	B162268-BS1	LCS	33.641	33.913	ug/m3	99.2		70 - 130			3
	B162268-BSD1	LCSD	34.184	33.913	ug/m3	101	1.6	70 - 130	30		4
Toluene	B162268-BS1	LCS	18.805	18.842	ug/m3	99.8		70 - 130			3
	B162268-BSD1	LCSD	19.219	18.842	ug/m3	102	2.2	70 - 130	30		4
Trichloroethene	B162268-BS1	LCS	26.815	26.869	ug/m3	99.8		70 - 130			3
	B162268-BSD1	LCSD	27.406	26.869	ug/m3	102	2.2	70 - 130	30		4
Trichlorofluoromethane	B162268-BS1	LCS	27.137	28.092	ug/m3	96.6		70 - 130			3
	B162268-BSD1	LCSD	27.249	28.092	ug/m3	97.0	0.4	70 - 130	30		4
1,1,2-Trichloro-1,2,2-trifluoroethane	B162268-BS1	LCS	37.015	38.318	ug/m3	96.6		70 - 130			3
	B162268-BSD1	LCSD	37.322	38.318	ug/m3	97.4	0.8	70 - 130	30		4
p- & m-Xylenes	B162268-BS1	LCS	43.378	43.421	ug/m3	99.9		70 - 130			3
	B162268-BSD1	LCSD	44.680	43.421	ug/m3	103	3.0	70 - 130	30		4
o-Xylene	B162268-BS1	LCS	21.190	21.711	ug/m3	97.6		70 - 130			3
	B162268-BSD1	LCSD	22.058	21.711	ug/m3	102	4.0	70 - 130	30		4
Total Xylenes	B162268-BS1	LCS	64.567	65.132	ug/m3	99.1		70 - 130			3
	B162268-BSD1	LCSD	66.738	65.132	ug/m3	102	3.3	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B162268-BS1	LCS	72.7	71.6	ug/m3	102		70 - 130			3
	B162268-BSD1	LCSD	73.9	71.6	ug/m3	103	1.7	70 - 130			4

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:14
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161559-BS1	LCS	EPA-TO-15-SIM	03/09/23	03/09/23 16:23	BEP	MS-A2	1
2	B161559-BSD1	LCSD	EPA-TO-15-SIM	03/09/23	03/09/23 17:02	BEP	MS-A2	1
3	B162268-BS1	LCS	EPA-TO-15	03/20/23	03/20/23 13:31	BEP	MS-A2	1
4	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23 14:14	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B162383

Methane (CH4)	B162383-BLK1	ND	ppmv	2.0	1.8		1
---------------	--------------	----	------	-----	-----	--	---

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162383-BLK1	PB	ASTM-D1946	03/21/23	03/21/23 17:42	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162383											
Methane (CH4)	B162383-BS1	LCS	19846	18000	ppmv	110		70 - 130			1
	B162383-BSD1	LCSD	19848	18000	ppmv	110	0.0	70 - 130	30		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162383-BS1	LCS	ASTM-D1946	03/21/23	03/21/23	17:01	RMK	GC-A1	1
2	B162383-BSD1	LCSD	ASTM-D1946	03/21/23	03/21/23	17:22	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:14
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- C01 The calibration curve did not contain the minimum number of standards.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Date of Report: 03/14/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304752
Invoice ID: B471332

Enclosed are the results of analyses for samples received by the laboratory on 3/8/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "BS", is positioned above a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", is positioned above a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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2304752

AIR: CHAIN-OF-CUSTODY / Analytical F
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be comp

Section A Required Client Information

Company: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 400
Long Beach, CA 90804
Email To: amcgure@rouxinc.com
Phone: 562-445-8624 Fax:
Requested Due Date/TIME: Standard

Section B Required Project Information

Report To: April McGure
Copy To:
Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
Purchase Order No.:
Project Name: City Terrace
Project Number: 2655

Section C Invoice Information

Attention: Roux Accounts Payable (rouxap@rouxinc.com)
Company Name: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
Pace Quote Reference: 00132481 & 00133033
Pace Project Manager/Sales Rep: Brianna Schutte / Dawn Grier
Pace Profile #:

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

1 SV-19-1
2 SV-19-2

Media Codes
MEDIA CODE
Tracer Bag TB
1 Liter Summa Can LCC
6 Liter Summa Can LSC
20 Liter Summa Can LSC
High Volume PVT
Other

1 -1
2 -2

ITEM #	COLLECTED		MEDIA CODE	RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	DATE	TIME		DATE	TIME						
1	3-7-23	1519	ILC	for cool box	3/7/23	1555	for cool box	3/7/23	1555		Temp in °C
2	3-7-23	1513	ILC	for cool box	3/7/23	1430	for cool box	3-8-23	1157		Received on

Print Name of Sampler: <u>Community GC Inc</u>	DATE Signed (MM/DD/YYYY): <u>3/7/23</u>
SIGNATURE OF SAMPLER:	

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

FC046Rev 01, 03Feb2010

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page	Of
Submission #: <u>23-04752</u>					
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S	
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Summa</u> Thermometer ID: _____		Date/Time: <u>3-8-23</u>	
		Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Analyst Init: <u>SMH/1157</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr*										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
3oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PT PHENOLICS										
45ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 545.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	<u>1.C</u>	<u>A</u>	<u>A</u>							

Comments: _____
 Sample Numbering Completed By: SMH Date/Time: 3/8/23 1240
 A = Actual / C = Corrected

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304752-01	COC Number:	---	Receive Date:	03/08/2023 11:57
	Project Number:	---	Sampling Date:	03/07/2023 15:26
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-19-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2304752-02	COC Number:	---	Receive Date:	03/08/2023 11:57
	Project Number:	---	Sampling Date:	03/07/2023 15:18
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-19-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304752-01		Client Sample Name: SV-19-1, 3/7/2023 3:26:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	19	ug/m3	8.1	0.70	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.2	0.44	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Benzene	0.67	ug/m3	3.2	0.34	EPA-TO-15	ND	J,A01	1
Benzyl chloride	ND	ug/m3	16	0.42	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.1	0.73	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.2	0.76	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.2	0.36	EPA-TO-15	ND	A01	1
Carbon disulfide	3.1	ug/m3	3.2	0.31	EPA-TO-15	ND	J,A01	1
Carbon tetrachloride	ND	ug/m3	8.1	0.73	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.1	0.65	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.2	0.86	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	8.1	0.87	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	3.2	0.62	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	8.1	0.70	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.1	0.94	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.1	0.81	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.1	0.50	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.1	0.81	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	3.0	ug/m3	8.1	0.73	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.1	0.37	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.1	0.42	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.1	0.50	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.2	0.44	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.1	0.52	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.1	0.49	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.1	0.65	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.1	1.5	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.1	3.2	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304752-01		Client Sample Name: SV-19-1, 3/7/2023 3:26:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	14	ug/m3	3.2	0.68	EPA-TO-15	ND	A01	1
Ethyl acetate	2.0	ug/m3	3.2	0.53	EPA-TO-15	ND	J,A01	1
Ethylbenzene	2.0	ug/m3	8.1	0.52	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	8.1	0.49	EPA-TO-15	ND	A01	1
n-Heptane	ND	ug/m3	3.2	0.55	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	1
Hexane	ND	ug/m3	8.1	0.32	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ug/m3	8.1	0.47	EPA-TO-15	ND	A01	1
Isopropyl alcohol	40	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.65	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	2.9	ug/m3	3.2	0.31	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	ND	ug/m3	8.1	0.42	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.2	0.40	EPA-TO-15	ND	A01	1
Styrene	0.90	ug/m3	8.1	0.39	EPA-TO-15	ND	J,A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.1	0.76	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.2	0.81	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.2	0.44	EPA-TO-15	ND	A01	1
Toluene	6.3	ug/m3	3.2	0.44	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.1	0.63	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.1	0.99	EPA-TO-15	ND	A01	1
Trichloroethene	1.2	ug/m3	3.2	0.87	EPA-TO-15	ND	J,A01	1
Trichlorofluoromethane	1.5	ug/m3	8.1	0.76	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.1	0.89	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.5	ug/m3	8.1	0.65	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.1	0.65	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.2	0.63	EPA-TO-15	ND	A01	1
p- & m-Xylenes	4.0	ug/m3	8.1	0.99	EPA-TO-15	ND	J,A01	1
o-Xylene	1.5	ug/m3	8.1	0.49	EPA-TO-15	ND	J,A01	1
Total Xylenes	5.5	ug/m3	16	1.5	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	98.6	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/14/2023 10:09
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304752-01	Client Sample Name: SV-19-1, 3/7/2023 3:26:00PM, Client
----------------------------------	--

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15	03/09/23 13:05	03/10/23 01:27		BEP	MS-A1	1.620	B161561	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304752-02		Client Sample Name: SV-19-2, 3/7/2023 3:18:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	20	ug/m3	8.2	0.71	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.3	0.45	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.3	0.46	EPA-TO-15	ND	A01	1
Benzene	ND	ug/m3	3.3	0.35	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.43	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.2	0.74	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.3	0.78	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.3	0.36	EPA-TO-15	ND	A01	1
Carbon disulfide	1.2	ug/m3	3.3	0.31	EPA-TO-15	ND	J,A01	1
Carbon tetrachloride	ND	ug/m3	8.2	0.74	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.2	0.66	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.3	0.87	EPA-TO-15	ND	A01	1
Chloroform	3.1	ug/m3	8.2	0.89	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.3	0.35	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	3.3	0.63	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	8.2	0.71	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.2	0.96	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.2	0.82	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.2	0.51	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.2	0.82	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.5	ug/m3	8.2	0.74	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.2	0.38	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.2	0.43	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.2	0.51	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.3	0.53	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.3	0.45	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.2	0.53	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.2	0.50	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.2	0.66	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.2	1.5	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.2	3.3	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304752-02		Client Sample Name: SV-19-2, 3/7/2023 3:18:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	18	ug/m3	3.3	0.69	EPA-TO-15	ND	A01	1
Ethyl acetate	2.3	ug/m3	3.3	0.54	EPA-TO-15	ND	J,A01	1
Ethylbenzene	1.4	ug/m3	8.2	0.53	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	8.2	0.50	EPA-TO-15	ND	A01	1
n-Heptane	ND	ug/m3	3.3	0.56	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.5	EPA-TO-15	ND	A01	1
Hexane	ND	ug/m3	8.2	0.33	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ug/m3	8.2	0.48	EPA-TO-15	ND	A01	1
Isopropyl alcohol	46	ug/m3	3.3	0.53	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.66	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	2.1	ug/m3	3.3	0.31	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	ND	ug/m3	8.2	0.43	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	3.3	0.46	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.3	0.41	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	8.2	0.40	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.2	0.78	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.3	0.82	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.3	0.45	EPA-TO-15	ND	A01	1
Toluene	5.5	ug/m3	3.3	0.45	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.2	0.64	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.2	1.0	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.3	0.89	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.3	ug/m3	8.2	0.78	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.2	0.91	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.1	ug/m3	8.2	0.66	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.2	0.66	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.3	0.64	EPA-TO-15	ND	A01	1
p- & m-Xylenes	3.1	ug/m3	8.2	1.0	EPA-TO-15	ND	J,A01	1
o-Xylene	1.1	ug/m3	8.2	0.50	EPA-TO-15	ND	J,A01	1
Total Xylenes	4.2	ug/m3	16	1.5	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	97.1	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304752-02	Client Sample Name: SV-19-2, 3/7/2023 3:18:00PM, Client
----------------------------------	--

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	03/09/23 13:05	03/10/23 02:03	BEP	MS-A1	1.650	B161561 EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161561							
Acetone	B161561-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B161561-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B161561-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B161561-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B161561-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B161561-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B161561-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B161561-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B161561-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B161561-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B161561-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B161561-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B161561-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B161561-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B161561-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B161561-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B161561-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B161561-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B161561-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B161561-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B161561-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B161561-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B161561-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B161561-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B161561-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B161561-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B161561-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B161561-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B161561-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B161561-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B161561-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B161561-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B161561-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B161561-BLK1	ND	ug/m3	2.0	0.42		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161561							
Ethyl acetate	B161561-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B161561-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B161561-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B161561-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B161561-BLK1	ND	ug/m3	10	1.5		1
Hexane	B161561-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B161561-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B161561-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B161561-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B161561-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B161561-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B161561-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B161561-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B161561-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B161561-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B161561-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B161561-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B161561-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B161561-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B161561-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B161561-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B161561-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B161561-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161561-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B161561-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B161561-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B161561-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B161561-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B161561-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B161561-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B161561-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B161561-BLK1	92.4	%	70 - 130 (LCL - UCL)			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/14/2023 10:09
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B161561-BLK1	PB	EPA-TO-15	03/09/23	03/09/23	15:26	BEP	MS-A1	1

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 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B161561											
Benzene	B161561-BS1	LCS	16.165	15.974	ug/m3	101		70 - 130			1
	B161561-BSD1	LCSD	16.261	15.974	ug/m3	102	0.6	70 - 130	30		2
Chloroform	B161561-BS1	LCS	24.120	24.413	ug/m3	98.8		70 - 130			1
	B161561-BSD1	LCSD	24.706	24.413	ug/m3	101	2.4	70 - 130	30		2
Ethylbenzene	B161561-BS1	LCS	21.971	21.711	ug/m3	101		70 - 130			1
	B161561-BSD1	LCSD	21.928	21.711	ug/m3	101	0.2	70 - 130	30		2
Tetrachloroethene	B161561-BS1	LCS	33.845	33.913	ug/m3	99.8		70 - 130			1
	B161561-BSD1	LCSD	33.167	33.913	ug/m3	97.8	2.0	70 - 130	30		2
Toluene	B161561-BS1	LCS	19.596	18.842	ug/m3	104		70 - 130			1
	B161561-BSD1	LCSD	19.294	18.842	ug/m3	102	1.6	70 - 130	30		2
Trichloroethene	B161561-BS1	LCS	26.707	26.869	ug/m3	99.4		70 - 130			1
	B161561-BSD1	LCSD	25.901	26.869	ug/m3	96.4	3.1	70 - 130	30		2
Trichlorofluoromethane	B161561-BS1	LCS	27.867	28.092	ug/m3	99.2		70 - 130			1
	B161561-BSD1	LCSD	28.148	28.092	ug/m3	100	1.0	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B161561-BS1	LCS	37.475	38.318	ug/m3	97.8		70 - 130			1
	B161561-BSD1	LCSD	38.088	38.318	ug/m3	99.4	1.6	70 - 130	30		2
p- & m-Xylenes	B161561-BS1	LCS	44.159	43.421	ug/m3	102		70 - 130			1
	B161561-BSD1	LCSD	44.116	43.421	ug/m3	102	0.1	70 - 130	30		2
o-Xylene	B161561-BS1	LCS	22.101	21.711	ug/m3	102		70 - 130			1
	B161561-BSD1	LCSD	22.188	21.711	ug/m3	102	0.4	70 - 130	30		2
Total Xylenes	B161561-BS1	LCS	66.261	65.132	ug/m3	102		70 - 130			1
	B161561-BSD1	LCSD	66.304	65.132	ug/m3	102	0.1	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161561-BS1	LCS	73.4	71.6	ug/m3	103		70 - 130			1
	B161561-BSD1	LCSD	72.0	71.6	ug/m3	101	2.0	70 - 130			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B161561-BS1	LCS	EPA-TO-15	03/09/23	03/09/23	14:26	BEP	MS-A1	1
2	B161561-BSD1	LCSD	EPA-TO-15	03/09/23	03/09/23	14:58	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/14/2023 10:09
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

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



Date of Report: 04/03/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2303904
Invoice ID: B471027, B471948, B472839

Enclosed are the results of analyses for samples received by the laboratory on 2/23/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001408445

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 2303904

3/10/23 per client email update the following sample descriptions - BLS

"An-20-1" to AA-20-1

"In-20-1" to IA-20-1

"SV-20-1-Dup" to SV-20-1-D



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Case Narrative

Sample Receipt

COC Number:

Samples received refrigerated to 25 °C

Sample List

<u>Lab Number</u>	<u>Date/Time Sampled</u>	<u>Sample Name</u>
2303904-01	02/22/2023 11:02	AA-20-1
2303904-02	02/22/2023 11:00	IA-20-1
2303904-03	02/22/2023 13:14	IA-20-2
2303904-04	02/22/2023 15:32	SV-20-1
2303904-05	02/22/2023 15:33	SV-20-1-D
2303904-06	02/22/2023 15:13	SV-20-2

Requested Analysis

ASTM-D1946, EPA-TO-15, EPA-TO-15-SIM

<u>Sample</u>	<u>Analyte</u>	<u>Flag</u>
Sample Qualifier Summary		
2303904-01	EPA-TO-15	Propylene C01
2303904-02	EPA-TO-15	Propylene C01
2303904-03	EPA-TO-15	Propylene C01

Holding Times

All holding time requirements were met.

Method Blanks

B162153-BLK1	EPA-TO-15	Propylene	C01
--------------	-----------	-----------	-----

There were no detections in the Method Blank(s).

LCS

The LCS recoveries are within QC limits.

Discussion

Summary of Flags

C01	The calibration curve did not contain the minimum number of standards.
-----	--

AIR: CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT

Section A
Required Client Information

Company: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450
Long Beach, CA 90804
Email To: amcguire@rouinc.com
Phone: 562-446-9924 Fax:
Requested Due Date/TIME: Standard

Section B
Required Project Information

Report To: April McGuire
Copy To:
Company Name: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450
Long Beach, CA 90804
Purchase Order No.:
Project Name: City Terrace
Project Number: 2855

Section C
Invoice Information

Attention: Roux Accounts Payable (rouinc@rouinc.com)
Company Name: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450
Long Beach, CA 90804
Pace Quote Reference: 0130481 & 00132533
Pace Project Manager/Sales Rep: Brianna Schutte / Dawn Grove
Pace Profile #:

Page: 1 of 1

Section D
Required Client Information

AIR SAMPLE ID
Sample ID's MUST BE UNIQUE

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

Barcode: 2303904

ITEM #	COLLECTED				MEDIA CODE	P/D Reading (List only)	SUMMA CAN NUMBER	FLOW CONTROL NUMBER	Pace Lab ID
	DATE	TIME	DATE	TIME					
1	2/20/15	1532	2/20/15	1607	62	Initial Field - psig	0802	59	TO-15 (NIH)
2	2/20/15	1622	2/20/15	1100	62	Final Field - psig	0623	05	TO-15 (NIH)
3	2/21/15	1424	2/21/15	1511	14	Initial Field - psig	0615	13	TO-15 (NIH)
4	2/21/15	1626		1532	14	Final Field - psig	5161	14	TO-15 (NIH)
5	2/20/15	1530		1530	14	Initial Field - psig	6124	13	TO-15 (NIH)
6	2/20/15	1506		1513	14	Final Field - psig	2647	19	TO-15 (NIH)

Comments:

1. 2A-20-1

2. 2A-20-1

3. 2A-20-2

4. 5V-20-1

5. 5V-20-1-DUP

6. 5V-20-2

RELINQUISHED BY / AFFILIATION: Samuel Jones (Roux) DATE: 2/23/15 TIME: 1547

RELINQUISHED BY / AFFILIATION: Alex Perditri (Roux) DATE: 2/23/15 TIME: 1542

RELINQUISHED BY / AFFILIATION: Chris Rose (Roux) DATE: 2/23/15 TIME: 1821

RELINQUISHED BY / AFFILIATION: Chris Rose (Roux) DATE: 2/23/15 TIME: 1030

RELINQUISHED BY / AFFILIATION: Gubelbecky / Asce DATE: 2/23/15 TIME: 1545

RELINQUISHED BY / AFFILIATION: Pat - Bob Jones DATE: 2/23/15 TIME: 1800

RELINQUISHED BY / AFFILIATION: rec PA DATE: 2/23/15 TIME: 1830

ACCEPTED BY / AFFILIATION: Samuel Jones DATE: 2/23/15 TIME: 1547

ACCEPTED BY / AFFILIATION: Alex Perditri (Roux) DATE: 2/23/15 TIME: 1542

ACCEPTED BY / AFFILIATION: Chris Rose (Roux) DATE: 2/23/15 TIME: 1821

ACCEPTED BY / AFFILIATION: Chris Rose (Roux) DATE: 2/23/15 TIME: 1030

ACCEPTED BY / AFFILIATION: Roux DATE: 2/23/15 TIME: 1545

SAMPLER NAME AND SIGNATURE: Samuel Jones

DATE INGESTED BY / TIME: 2/23/15

DATE ANALYZED BY / TIME: 2/23/15

Temp in °C: [Empty]

Received on [Empty]

Sealed Cooler: [Empty]

Samples In: [Empty]

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>						
Submission #: <u>23-03904</u>										
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S					
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____										
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____										
Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>										
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>---</u> Container: <u>Summa</u> Thermometer ID: <u>---</u> Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Date/Time <u>2/23/23 1830</u> Analyst Init <u>PKC</u>						
SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr*										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8881A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8815M										
QT EPA 8279C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT <u>Summa</u>		A	A	A						
SUMMA CANISTER <u>1.4</u>				A	A	A				

Comments: _____
 Sample Numbering Completed By: JOL Date/Time: 2/23/23 1808 Rev 23 05/20/22
 A = Actual / C = Corrected [S:\WPDoc\WordPerfect\LAB_DOC\SF\FORMS\SAMRS\Draw 28]



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2303904-01	COC Number:	---	02/23/2023	18:30
	Project Number:	---	Sampling Date:	02/22/2023 11:02
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AA-20-1	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
	<hr/>			
2303904-02	COC Number:	---	02/23/2023	18:30
	Project Number:	---	Sampling Date:	02/22/2023 11:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-20-1	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
	<hr/>			
2303904-03	COC Number:	---	02/23/2023	18:30
	Project Number:	---	Sampling Date:	02/22/2023 13:14
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-20-2	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
	<hr/>			
2303904-04	COC Number:	---	02/23/2023	18:30
	Project Number:	---	Sampling Date:	02/22/2023 15:32
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-20-1	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
	<hr/>			
2303904-05	COC Number:	---	02/23/2023	18:30
	Project Number:	---	Sampling Date:	02/22/2023 15:33
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-20-1-D	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
	<hr/>			
2303904-06	COC Number:	---	02/23/2023	18:30
	Project Number:	---	Sampling Date:	02/22/2023 15:13
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-20-2	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
	<hr/>			

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2303904-01		Client Sample Name: AA-20-1, 2/22/2023 11:02:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	11	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	6.4	ug/m3	2.0	0.015	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		3
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		3
Benzene	0.42	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.44	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		4
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		3
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		4
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		3
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		3
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		3
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		3
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		3
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		3
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		4
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		3
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		4
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		3
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		3
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		4
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		3
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		3
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		3
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		4
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		3
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		4
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		3
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		4
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		3
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		4
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.9	ug/m3	0.10	0.010	EPA-TO-15-SIM	ND	A01	2

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4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.pacelabs.com



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2303904-01		Client Sample Name: AA-20-1, 2/22/2023 11:02:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		3
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		4
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		3
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		4
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		3
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		4
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		4
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		4
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		3
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		3
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		3
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		4
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		3
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		3
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		4
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		3
Ethanol	3.0	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		3
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		3
Ethylbenzene	0.15	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		4
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		3
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		3
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		3
Hexane	1.4	ug/m3	5.0	0.20	EPA-TO-15	ND	J	3
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		3
Isopropyl alcohol	1.2	ug/m3	2.0	0.32	EPA-TO-15	ND	J	1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		3
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		4
Methyl ethyl ketone	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		3
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2303904-01		Client Sample Name: AA-20-1, 2/22/2023 11:02:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	3
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		3
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		3
Tetrachloroethene	2.4	ug/m3	2.0	0.50	EPA-TO-15	ND		3
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		4
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		3
Toluene	0.49	ug/m3	2.0	0.27	EPA-TO-15	ND	J	3
Toluene	0.76	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		4
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		3
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		3
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		4
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		3
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		4
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		3
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		4
Trichlorofluoromethane	1.2	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	0.66	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		4
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		3
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		3
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		3
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		3
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		4
p- & m-Xylenes	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		3
p- & m-Xylenes	0.53	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		4
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		3
o-Xylene	0.19	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		4
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		3
Total Xylenes	0.72	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		4
4-Bromofluorobenzene (Surrogate)	95.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	102	%	70 - 130 (LCL - UCL)		EPA-TO-15			3
4-Bromofluorobenzene (Surrogate)	99.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			4

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2303904-01		Client Sample Name: AA-20-1, 2/22/2023 11:02:00AM							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/17/23 13:06	03/17/23 20:24	BEP	MS-A2	1	B162153	EPA TO-15	
2	EPA-TO-15-SIM	02/27/23 13:45	02/27/23 21:58	BEP	MS-A1	2	B160823	EPA TO-15	
3	EPA-TO-15	03/17/23 13:06	03/17/23 19:41	BEP	MS-A2	1	B162153	EPA TO-15	
4	EPA-TO-15-SIM	02/27/23 13:45	02/27/23 20:12	BEP	MS-A1	1	B160823	EPA TO-15	

DCN = Data Continuation Number



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2303904-01	Client Sample Name: AA-20-1, 2/22/2023 11:02:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	36	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/20/23 08:27	03/20/23 12:47	RMK	GC-A1	1	B162267	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2303904-02		Client Sample Name: IA-20-1, 2/22/2023 11:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	24	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	14	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.51	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.50	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.8	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2303904-02		Client Sample Name: IA-20-1, 2/22/2023 11:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	1.5	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	2.6	ug/m3	5.0	2.0	EPA-TO-15	ND	J	1
1,1-Difluoroethane	2.8	ug/m3	50	0.027	EPA-TO-15-SIM	ND	J,A01	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	120	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	1.5	ug/m3	2.0	0.33	EPA-TO-15	ND	J	1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.49	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	0.67	ug/m3	5.0	0.20	EPA-TO-15	ND	J	1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	23	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.3	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2303904-02		Client Sample Name: IA-20-1, 2/22/2023 11:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	0.69	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	1.2	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.8	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.8	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	0.12	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.2	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	0.99	ug/m3	2.0	0.33	EPA-TO-15	ND	J	1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.2	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.5	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.51	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	1.2	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	2.0	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	97.1	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	95.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	102	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2303904-02		Client Sample Name: IA-20-1, 2/22/2023 11:00:00AM							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/17/23 13:06	03/17/23 21:09	BEP	MS-A2	1	B162153	EPA TO-15	
2	EPA-TO-15-SIM	02/27/23 13:45	02/27/23 22:28	BEP	MS-A1	10	B160823	EPA TO-15	
3	EPA-TO-15-SIM	02/27/23 13:45	02/27/23 20:49	BEP	MS-A1	1	B160823	EPA TO-15	

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2303904-02	Client Sample Name: IA-20-1, 2/22/2023 11:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	4.0	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/20/23 08:27	03/20/23 13:07	RMK	GC-A1	1	B162267	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2303904-03		Client Sample Name: IA-20-2, 2/22/2023 1:14:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	23	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	17	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.51	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.52	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	0.40	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	3.4	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	2

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Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2303904-03		Client Sample Name: IA-20-2, 2/22/2023 1:14:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	2.7	ug/m3	5.0	2.0	EPA-TO-15	ND	J	1
1,1-Difluoroethane	3.6	ug/m3	50	0.027	EPA-TO-15-SIM	ND	J,A01	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	100	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	1.3	ug/m3	2.0	0.33	EPA-TO-15	ND	J	1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.46	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	20	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.5	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2303904-03		Client Sample Name: IA-20-2, 2/22/2023 1:14:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	0.76	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	0.91	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.7	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.8	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.2	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.2	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.4	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.48	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	1.2	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	1.9	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	97.9	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	91.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	103	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2303904-03		Client Sample Name: IA-20-2, 2/22/2023 1:14:00PM							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/17/23 13:06	03/17/23 21:52	BEP	MS-A2	1	B162153	EPA TO-15	
2	EPA-TO-15-SIM	02/27/23 13:45	02/27/23 22:58	BEP	MS-A1	10	B160823	EPA TO-15	
3	EPA-TO-15-SIM	02/27/23 13:45	02/27/23 21:26	BEP	MS-A1	1	B160823	EPA TO-15	

DCN = Data Continuation Number

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Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2303904-03	Client Sample Name: IA-20-2, 2/22/2023 1:14:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	6.3	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/20/23 08:27	03/20/23 13:28	RMK	GC-A1	1	B162267	No Prep

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2303904-04		Client Sample Name: SV-20-1, 2/22/2023 3:32:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	55	ug/m3	8.4	0.72	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.3	0.45	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.3	0.47	EPA-TO-15	ND	A01	1
Benzene	5.7	ug/m3	3.3	0.35	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	17	0.43	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.4	0.75	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	17	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.3	0.78	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.3	0.37	EPA-TO-15	ND	A01	1
Carbon disulfide	3.6	ug/m3	3.3	0.32	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.4	0.75	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.4	0.67	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.3	0.89	EPA-TO-15	ND	A01	1
Chloroform	2.7	ug/m3	8.4	0.90	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.3	0.35	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	3.3	0.63	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	8.4	0.72	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.4	0.97	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.4	0.84	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.4	0.52	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.4	0.84	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.5	ug/m3	8.4	0.75	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.4	0.38	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.4	0.43	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.4	0.52	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.3	0.53	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.3	0.45	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.4	0.53	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.4	0.50	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.4	0.67	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.4	1.5	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.4	3.3	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.3	0.55	EPA-TO-15	ND	A01	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2303904-04		Client Sample Name: SV-20-1, 2/22/2023 3:32:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	5.5	ug/m3	3.3	0.70	EPA-TO-15	ND	A01	1
Ethyl acetate	4.2	ug/m3	3.3	0.55	EPA-TO-15	ND	A01	1
Ethylbenzene	4.7	ug/m3	8.4	0.53	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	3.1	ug/m3	8.4	0.50	EPA-TO-15	ND	J,A01	1
n-Heptane	8.1	ug/m3	3.3	0.57	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	17	2.5	EPA-TO-15	ND	A01	1
Hexane	1.2	ug/m3	8.4	0.33	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	8.4	0.48	EPA-TO-15	ND	A01	1
Isopropyl alcohol	23	ug/m3	3.3	0.53	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	17	0.67	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	8.3	ug/m3	3.3	0.32	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	1.8	ug/m3	8.4	0.43	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.3	0.47	EPA-TO-15	ND	A01	1
Propylene	0.92	ug/m3	3.3	0.42	EPA-TO-15	ND	J,A01	1
Styrene	ND	ug/m3	8.4	0.40	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.4	0.78	EPA-TO-15	ND	A01	1
Tetrachloroethene	2.6	ug/m3	3.3	0.84	EPA-TO-15	ND	J,A01	1
Tetrahydrofuran	ND	ug/m3	3.3	0.45	EPA-TO-15	ND	A01	1
Toluene	26	ug/m3	3.3	0.45	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	17	1.4	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.4	0.65	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.4	1.0	EPA-TO-15	ND	A01	1
Trichloroethene	1.3	ug/m3	3.3	0.90	EPA-TO-15	ND	J,A01	1
Trichlorofluoromethane	1.4	ug/m3	8.4	0.78	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.4	0.92	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	5.3	ug/m3	8.4	0.67	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	1.6	ug/m3	8.4	0.67	EPA-TO-15	ND	J,A01	1
Vinyl acetate	ND	ug/m3	3.3	0.55	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.3	0.65	EPA-TO-15	ND	A01	1
p- & m-Xylenes	18	ug/m3	8.4	1.0	EPA-TO-15	ND	A01	1
o-Xylene	6.2	ug/m3	8.4	0.50	EPA-TO-15	ND	J,A01	1
Total Xylenes	24	ug/m3	17	1.5	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	94.3	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 12:51
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2303904-04	Client Sample Name: SV-20-1, 2/22/2023 3:32:00PM
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15	02/28/23 13:55	03/01/23 01:24		BEP	MS-A2	1.670	B160936	EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2303904-05		Client Sample Name: SV-20-1-D, 2/22/2023 3:33:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	53	ug/m3	7.8	0.67	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.1	0.43	EPA-TO-15	ND	A01	1
Benzene	5.9	ug/m3	3.1	0.33	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.40	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	7.8	0.70	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.1	0.73	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.1	0.34	EPA-TO-15	ND	A01	1
Carbon disulfide	4.0	ug/m3	3.1	0.29	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	7.8	0.70	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	7.8	0.62	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.1	0.82	EPA-TO-15	ND	A01	1
Chloroform	2.7	ug/m3	7.8	0.84	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.1	0.33	EPA-TO-15	ND	A01	1
Cyclohexane	0.64	ug/m3	3.1	0.59	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	7.8	0.67	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	7.8	0.90	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	7.8	0.78	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	7.8	0.48	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	7.8	0.78	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.5	ug/m3	7.8	0.70	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	7.8	0.36	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	7.8	0.40	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	7.8	0.48	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.1	0.50	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	7.8	0.50	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	7.8	0.46	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	7.8	0.62	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	7.8	1.4	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	7.8	3.1	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.1	0.51	EPA-TO-15	ND	A01	1

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Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2303904-05		Client Sample Name: SV-20-1-D, 2/22/2023 3:33:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	4.5	ug/m3	3.1	0.65	EPA-TO-15	ND	A01	1
Ethyl acetate	3.5	ug/m3	3.1	0.51	EPA-TO-15	ND	A01	1
Ethylbenzene	5.3	ug/m3	7.8	0.50	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	3.6	ug/m3	7.8	0.46	EPA-TO-15	ND	J,A01	1
n-Heptane	9.3	ug/m3	3.1	0.53	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.3	EPA-TO-15	ND	A01	1
Hexane	1.4	ug/m3	7.8	0.31	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	7.8	0.45	EPA-TO-15	ND	A01	1
Isopropyl alcohol	19	ug/m3	3.1	0.50	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.62	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	6.6	ug/m3	3.1	0.29	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	2.1	ug/m3	7.8	0.40	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.1	0.43	EPA-TO-15	ND	A01	1
Propylene	0.96	ug/m3	3.1	0.39	EPA-TO-15	ND	J,A01	1
Styrene	0.86	ug/m3	7.8	0.37	EPA-TO-15	ND	J,A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	7.8	0.73	EPA-TO-15	ND	A01	1
Tetrachloroethene	2.7	ug/m3	3.1	0.78	EPA-TO-15	ND	J,A01	1
Tetrahydrofuran	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
Toluene	28	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	7.8	0.60	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	7.8	0.95	EPA-TO-15	ND	A01	1
Trichloroethene	1.2	ug/m3	3.1	0.84	EPA-TO-15	ND	J,A01	1
Trichlorofluoromethane	1.4	ug/m3	7.8	0.73	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	7.8	0.85	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	5.9	ug/m3	7.8	0.62	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	1.8	ug/m3	7.8	0.62	EPA-TO-15	ND	J,A01	1
Vinyl acetate	ND	ug/m3	3.1	0.51	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.1	0.60	EPA-TO-15	ND	A01	1
p- & m-Xylenes	20	ug/m3	7.8	0.95	EPA-TO-15	ND	A01	1
o-Xylene	6.7	ug/m3	7.8	0.46	EPA-TO-15	ND	J,A01	1
Total Xylenes	26	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	91.8	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2303904-05	Client Sample Name: SV-20-1-D, 2/22/2023 3:33:00PM
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	02/28/23 13:55	03/01/23 02:07	BEP	MS-A2	1.550	B160936 EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2303904-06		Client Sample Name: SV-20-2, 2/22/2023 3:13:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	37	ug/m3	7.4	0.63	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	2.9	0.40	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	2.9	0.41	EPA-TO-15	ND	A01	1
Benzene	8.1	ug/m3	2.9	0.31	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	15	0.38	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	7.4	0.66	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	15	1.3	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	2.9	0.69	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	2.9	0.32	EPA-TO-15	ND	A01	1
Carbon disulfide	5.6	ug/m3	2.9	0.28	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	7.4	0.66	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	7.4	0.59	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	2.9	0.78	EPA-TO-15	ND	A01	1
Chloroform	1.8	ug/m3	7.4	0.79	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	2.9	0.31	EPA-TO-15	ND	A01	1
Cyclohexane	1.7	ug/m3	2.9	0.56	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	7.4	0.63	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	7.4	0.85	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	7.4	0.74	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	7.4	0.46	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	7.4	0.74	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.4	ug/m3	7.4	0.66	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	7.4	0.34	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	7.4	0.38	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	7.4	0.46	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	2.9	0.47	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	2.9	0.40	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	7.4	0.47	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	7.4	0.44	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	7.4	0.59	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	7.4	1.3	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	7.4	2.9	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	2.9	0.49	EPA-TO-15	ND	A01	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2303904-06		Client Sample Name: SV-20-2, 2/22/2023 3:13:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	3.5	ug/m3	2.9	0.62	EPA-TO-15	ND	A01	1
Ethyl acetate	4.2	ug/m3	2.9	0.49	EPA-TO-15	ND	A01	1
Ethylbenzene	7.7	ug/m3	7.4	0.47	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	5.2	ug/m3	7.4	0.44	EPA-TO-15	ND	J,A01	1
n-Heptane	46	ug/m3	2.9	0.50	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	15	2.2	EPA-TO-15	ND	A01	1
Hexane	6.0	ug/m3	7.4	0.29	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	7.4	0.43	EPA-TO-15	ND	A01	1
Isopropyl alcohol	22	ug/m3	2.9	0.47	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	15	0.59	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	4.9	ug/m3	2.9	0.28	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	2.3	ug/m3	7.4	0.38	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	0.53	ug/m3	2.9	0.41	EPA-TO-15	ND	J,A01	1
Propylene	2.4	ug/m3	2.9	0.37	EPA-TO-15	ND	J,A01	1
Styrene	0.81	ug/m3	7.4	0.35	EPA-TO-15	ND	J,A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	7.4	0.69	EPA-TO-15	ND	A01	1
Tetrachloroethene	3.8	ug/m3	2.9	0.74	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	2.9	0.40	EPA-TO-15	ND	A01	1
Toluene	37	ug/m3	2.9	0.40	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	15	1.2	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	7.4	0.57	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	7.4	0.90	EPA-TO-15	ND	A01	1
Trichloroethene	1.7	ug/m3	2.9	0.79	EPA-TO-15	ND	J,A01	1
Trichlorofluoromethane	1.4	ug/m3	7.4	0.69	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	7.4	0.81	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	8.2	ug/m3	7.4	0.59	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	2.6	ug/m3	7.4	0.59	EPA-TO-15	ND	J,A01	1
Vinyl acetate	ND	ug/m3	2.9	0.49	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	2.9	0.57	EPA-TO-15	ND	A01	1
p- & m-Xylenes	26	ug/m3	7.4	0.90	EPA-TO-15	ND	A01	1
o-Xylene	8.4	ug/m3	7.4	0.44	EPA-TO-15	ND	A01	1
Total Xylenes	34	ug/m3	15	1.3	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	89.7	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
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Reported: 04/03/2023 12:51
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2303904-06	Client Sample Name: SV-20-2, 2/22/2023 3:13:00PM
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	02/28/23 13:55	03/01/23 02:50	BEP	MS-A2	1.470	B160936 EPA TO-15

DCN = Data Continuation Number

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Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B160823							
Acetone	B160823-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B160823-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B160823-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B160823-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B160823-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B160823-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B160823-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B160823-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B160823-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B160823-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B160823-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B160823-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B160823-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B160823-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B160823-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B160823-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B160823-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B160823-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B160823-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B160823-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B160823-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B160823-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B160823-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B160823-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B160823-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B160823-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B160823-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B160823-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B160823-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B160823-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B160823-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B160823-BLK1	90.6	%	50 - 150 (LCL - UCL)			1
QC Batch ID: B160936							

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B160936							
Acetone	B160936-BLK1	ND	ug/m3	5.0	0.43		2
Acrylonitrile	B160936-BLK1	ND	ug/m3	2.0	0.27		2
Allyl chloride	B160936-BLK1	ND	ug/m3	2.0	0.28		2
Benzene	B160936-BLK1	ND	ug/m3	2.0	0.21		2
Benzyl chloride	B160936-BLK1	ND	ug/m3	10	0.26		2
Bromodichloromethane	B160936-BLK1	ND	ug/m3	5.0	0.45		2
Bromoform	B160936-BLK1	ND	ug/m3	10	0.86		2
Bromomethane	B160936-BLK1	ND	ug/m3	2.0	0.47		2
1,3-Butadiene	B160936-BLK1	ND	ug/m3	2.0	0.22		2
Carbon disulfide	B160936-BLK1	ND	ug/m3	2.0	0.19		2
Carbon tetrachloride	B160936-BLK1	ND	ug/m3	5.0	0.45		2
Chlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.40		2
Chloroethane	B160936-BLK1	ND	ug/m3	2.0	0.53		2
Chloroform	B160936-BLK1	ND	ug/m3	5.0	0.54		2
Chloromethane	B160936-BLK1	ND	ug/m3	2.0	0.21		2
Cyclohexane	B160936-BLK1	ND	ug/m3	2.0	0.38		2
Dibromochloromethane	B160936-BLK1	ND	ug/m3	5.0	0.43		2
1,2-Dibromoethane	B160936-BLK1	ND	ug/m3	5.0	0.58		2
1,2-Dichlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.50		2
1,3-Dichlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.31		2
1,4-Dichlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.50		2
Dichlorodifluoromethane	B160936-BLK1	ND	ug/m3	5.0	0.45		2
1,1-Dichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.23		2
1,2-Dichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.26		2
1,1-Dichloroethene	B160936-BLK1	ND	ug/m3	5.0	0.31		2
cis-1,2-Dichloroethene	B160936-BLK1	ND	ug/m3	2.0	0.32		2
trans-1,2-Dichloroethene	B160936-BLK1	ND	ug/m3	2.0	0.27		2
1,2-Dichloropropane	B160936-BLK1	ND	ug/m3	5.0	0.32		2
cis-1,3-Dichloropropene	B160936-BLK1	ND	ug/m3	5.0	0.30		2
trans-1,3-Dichloropropene	B160936-BLK1	ND	ug/m3	5.0	0.40		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B160936-BLK1	ND	ug/m3	5.0	0.91		2
1,1-Difluoroethane	B160936-BLK1	ND	ug/m3	5.0	2.0		2
1,4-Dioxane	B160936-BLK1	ND	ug/m3	2.0	0.33		2
Ethanol	B160936-BLK1	ND	ug/m3	2.0	0.42		2

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Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B160936							
Ethyl acetate	B160936-BLK1	ND	ug/m3	2.0	0.33		2
Ethylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.32		2
1-Ethyl-4-methylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.30		2
n-Heptane	B160936-BLK1	ND	ug/m3	2.0	0.34		2
Hexachlorobutadiene	B160936-BLK1	ND	ug/m3	10	1.5		2
Hexane	B160936-BLK1	ND	ug/m3	5.0	0.20		2
2-Hexanone	B160936-BLK1	ND	ug/m3	5.0	0.29		2
Isopropyl alcohol	B160936-BLK1	ND	ug/m3	2.0	0.32		2
Methylene chloride	B160936-BLK1	ND	ug/m3	10	0.40		2
Methyl ethyl ketone	B160936-BLK1	ND	ug/m3	2.0	0.19		2
Methyl isobutyl ketone	B160936-BLK1	ND	ug/m3	5.0	0.26		2
Methyl t-butyl ether	B160936-BLK1	ND	ug/m3	2.0	0.28		2
Propylene	B160936-BLK1	ND	ug/m3	2.0	0.25		2
Styrene	B160936-BLK1	ND	ug/m3	5.0	0.24		2
1,1,2,2-Tetrachloroethane	B160936-BLK1	ND	ug/m3	5.0	0.47		2
Tetrachloroethene	B160936-BLK1	ND	ug/m3	2.0	0.50		2
Tetrahydrofuran	B160936-BLK1	ND	ug/m3	2.0	0.27		2
Toluene	B160936-BLK1	ND	ug/m3	2.0	0.27		2
1,2,4-Trichlorobenzene	B160936-BLK1	ND	ug/m3	10	0.82		2
1,1,1-Trichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.39		2
1,1,2-Trichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.61		2
Trichloroethene	B160936-BLK1	ND	ug/m3	2.0	0.54		2
Trichlorofluoromethane	B160936-BLK1	ND	ug/m3	5.0	0.47		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B160936-BLK1	ND	ug/m3	5.0	0.55		2
1,2,4-Trimethylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.40		2
1,3,5-Trimethylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.40		2
Vinyl acetate	B160936-BLK1	ND	ug/m3	2.0	0.33		2
Vinyl chloride	B160936-BLK1	ND	ug/m3	2.0	0.39		2
p- & m-Xylenes	B160936-BLK1	ND	ug/m3	5.0	0.61		2
o-Xylene	B160936-BLK1	ND	ug/m3	5.0	0.30		2
Total Xylenes	B160936-BLK1	ND	ug/m3	10	0.91		2
4-Bromofluorobenzene (Surrogate)	B160936-BLK1	92.0	%	70 - 130 (LCL - UCL)			2
QC Batch ID: B162153							

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 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162153							
Acetone	B162153-BLK1	ND	ug/m3	5.0	0.43		3
Acrylonitrile	B162153-BLK1	ND	ug/m3	2.0	0.27		3
Allyl chloride	B162153-BLK1	ND	ug/m3	2.0	0.28		3
Benzene	B162153-BLK1	ND	ug/m3	2.0	0.21		3
Benzyl chloride	B162153-BLK1	ND	ug/m3	10	0.26		3
Bromodichloromethane	B162153-BLK1	ND	ug/m3	5.0	0.45		3
Bromoform	B162153-BLK1	ND	ug/m3	10	0.86		3
Bromomethane	B162153-BLK1	ND	ug/m3	2.0	0.47		3
1,3-Butadiene	B162153-BLK1	ND	ug/m3	2.0	0.22		3
Carbon disulfide	B162153-BLK1	ND	ug/m3	2.0	0.19		3
Carbon tetrachloride	B162153-BLK1	ND	ug/m3	5.0	0.45		3
Chlorobenzene	B162153-BLK1	ND	ug/m3	5.0	0.40		3
Chloroethane	B162153-BLK1	ND	ug/m3	2.0	0.53		3
Chloroform	B162153-BLK1	ND	ug/m3	5.0	0.54		3
Chloromethane	B162153-BLK1	ND	ug/m3	2.0	0.21		3
Cyclohexane	B162153-BLK1	ND	ug/m3	2.0	0.38		3
Dibromochloromethane	B162153-BLK1	ND	ug/m3	5.0	0.43		3
1,2-Dibromoethane	B162153-BLK1	ND	ug/m3	5.0	0.58		3
1,2-Dichlorobenzene	B162153-BLK1	ND	ug/m3	5.0	0.50		3
1,3-Dichlorobenzene	B162153-BLK1	ND	ug/m3	5.0	0.31		3
1,4-Dichlorobenzene	B162153-BLK1	ND	ug/m3	5.0	0.50		3
Dichlorodifluoromethane	B162153-BLK1	ND	ug/m3	5.0	0.45		3
1,1-Dichloroethane	B162153-BLK1	ND	ug/m3	5.0	0.23		3
1,2-Dichloroethane	B162153-BLK1	ND	ug/m3	5.0	0.26		3
1,1-Dichloroethene	B162153-BLK1	ND	ug/m3	5.0	0.31		3
cis-1,2-Dichloroethene	B162153-BLK1	ND	ug/m3	2.0	0.32		3
trans-1,2-Dichloroethene	B162153-BLK1	ND	ug/m3	2.0	0.27		3
1,2-Dichloropropane	B162153-BLK1	ND	ug/m3	5.0	0.32		3
cis-1,3-Dichloropropene	B162153-BLK1	ND	ug/m3	5.0	0.30		3
trans-1,3-Dichloropropene	B162153-BLK1	ND	ug/m3	5.0	0.40		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162153-BLK1	ND	ug/m3	5.0	0.91		3
1,1-Difluoroethane	B162153-BLK1	ND	ug/m3	5.0	2.0		3
1,4-Dioxane	B162153-BLK1	ND	ug/m3	2.0	0.33		3
Ethanol	B162153-BLK1	ND	ug/m3	2.0	0.42		3

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 5150 E. Pacific Coast Hwy, Suite 450
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Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162153							
Ethyl acetate	B162153-BLK1	ND	ug/m3	2.0	0.33		3
Ethylbenzene	B162153-BLK1	ND	ug/m3	5.0	0.32		3
1-Ethyl-4-methylbenzene	B162153-BLK1	ND	ug/m3	5.0	0.30		3
n-Heptane	B162153-BLK1	ND	ug/m3	2.0	0.34		3
Hexachlorobutadiene	B162153-BLK1	ND	ug/m3	10	1.5		3
Hexane	B162153-BLK1	ND	ug/m3	5.0	0.20		3
2-Hexanone	B162153-BLK1	ND	ug/m3	5.0	0.29		3
Isopropyl alcohol	B162153-BLK1	ND	ug/m3	2.0	0.32		3
Methylene chloride	B162153-BLK1	ND	ug/m3	10	0.40		3
Methyl ethyl ketone	B162153-BLK1	ND	ug/m3	2.0	0.19		3
Methyl isobutyl ketone	B162153-BLK1	ND	ug/m3	5.0	0.26		3
Methyl t-butyl ether	B162153-BLK1	ND	ug/m3	2.0	0.28		3
Propylene	B162153-BLK1	ND	ug/m3	2.0	0.25	C01	3
Styrene	B162153-BLK1	ND	ug/m3	5.0	0.24		3
1,1,2,2-Tetrachloroethane	B162153-BLK1	ND	ug/m3	5.0	0.47		3
Tetrachloroethene	B162153-BLK1	ND	ug/m3	2.0	0.50		3
Tetrahydrofuran	B162153-BLK1	ND	ug/m3	2.0	0.27		3
Toluene	B162153-BLK1	ND	ug/m3	2.0	0.27		3
1,2,4-Trichlorobenzene	B162153-BLK1	ND	ug/m3	10	0.82		3
1,1,1-Trichloroethane	B162153-BLK1	ND	ug/m3	5.0	0.39		3
1,1,2-Trichloroethane	B162153-BLK1	ND	ug/m3	5.0	0.61		3
Trichloroethene	B162153-BLK1	ND	ug/m3	2.0	0.54		3
Trichlorofluoromethane	B162153-BLK1	ND	ug/m3	5.0	0.47		3
1,1,2-Trichloro-1,2,2-trifluoroethane	B162153-BLK1	ND	ug/m3	5.0	0.55		3
1,2,4-Trimethylbenzene	B162153-BLK1	ND	ug/m3	5.0	0.40		3
1,3,5-Trimethylbenzene	B162153-BLK1	ND	ug/m3	5.0	0.40		3
Vinyl acetate	B162153-BLK1	ND	ug/m3	2.0	0.33		3
Vinyl chloride	B162153-BLK1	ND	ug/m3	2.0	0.39		3
p- & m-Xylenes	B162153-BLK1	ND	ug/m3	5.0	0.61		3
o-Xylene	B162153-BLK1	ND	ug/m3	5.0	0.30		3
Total Xylenes	B162153-BLK1	ND	ug/m3	10	0.91		3
4-Bromofluorobenzene (Surrogate)	B162153-BLK1	95.5	%	70 - 130 (LCL - UCL)			3

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 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)
Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1
1	B160823-BLK1	PB	EPA-TO-15-SIM	02/27/23	02/27/23 17:03	BEP	MS-A1	1

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 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)
Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1

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Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run	Analyst	Instrument	Dilution
					Date Time			
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1

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Long Beach, CA 90804

Reported: 04/03/2023 12:51
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 12:51
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1

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Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B160823											
Benzene	B160823-BS1	LCS	0.29909	0.31948	ug/m3	93.6		70 - 130			1
	B160823-BSD1	LCSD	0.29852	0.31948	ug/m3	93.4	0.2	70 - 130	30		2
Benzyl chloride	B160823-BS1	LCS	0.46491	0.51772	ug/m3	89.8		70 - 130		J	1
	B160823-BSD1	LCSD	0.43711	0.51772	ug/m3	84.4	6.2	70 - 130	30	J	2
Carbon tetrachloride	B160823-BS1	LCS	0.58673	0.62913	ug/m3	93.3		70 - 130			1
	B160823-BSD1	LCSD	0.57975	0.62913	ug/m3	92.2	1.2	70 - 130	30		2
Chlorobenzene	B160823-BS1	LCS	0.44102	0.46036	ug/m3	95.8		70 - 130			1
	B160823-BSD1	LCSD	0.43830	0.46036	ug/m3	95.2	0.6	70 - 130	30		2
Chloroform	B160823-BS1	LCS	0.46990	0.48825	ug/m3	96.2		70 - 130			1
	B160823-BSD1	LCSD	0.47361	0.48825	ug/m3	97.0	0.8	70 - 130	30		2
1,2-Dibromoethane	B160823-BS1	LCS	0.73516	0.76835	ug/m3	95.7		70 - 130			1
	B160823-BSD1	LCSD	0.72809	0.76835	ug/m3	94.8	1.0	70 - 130	30		2
1,2-Dichlorobenzene	B160823-BS1	LCS	0.60448	0.60124	ug/m3	101		70 - 130			1
	B160823-BSD1	LCSD	0.59240	0.60124	ug/m3	98.5	2.0	70 - 130	30		2
1,3-Dichlorobenzene	B160823-BS1	LCS	0.63533	0.60124	ug/m3	106		70 - 130			1
	B160823-BSD1	LCSD	0.59757	0.60124	ug/m3	99.4	6.1	70 - 130	30		2
1,4-Dichlorobenzene	B160823-BS1	LCS	0.57238	0.60124	ug/m3	95.2		70 - 130			1
	B160823-BSD1	LCSD	0.60075	0.60124	ug/m3	99.9	4.8	70 - 130	30		2
1,1-Dichloroethane	B160823-BS1	LCS	0.39130	0.40474	ug/m3	96.7		70 - 130			1
	B160823-BSD1	LCSD	0.39155	0.40474	ug/m3	96.7	0.1	70 - 130	30		2
1,2-Dichloroethane	B160823-BS1	LCS	0.37944	0.40474	ug/m3	93.7		70 - 130			1
	B160823-BSD1	LCSD	0.37827	0.40474	ug/m3	93.5	0.3	70 - 130	30		2
1,1-Dichloroethene	B160823-BS1	LCS	0.38282	0.39649	ug/m3	96.6		70 - 130			1
	B160823-BSD1	LCSD	0.38083	0.39649	ug/m3	96.1	0.5	70 - 130	30		2
cis-1,2-Dichloroethene	B160823-BS1	LCS	0.38254	0.39649	ug/m3	96.5		70 - 130			1
	B160823-BSD1	LCSD	0.37707	0.39649	ug/m3	95.1	1.4	70 - 130	30		2
Methylene chloride	B160823-BS1	LCS	0.36280	0.34737	ug/m3	104		70 - 130			1
	B160823-BSD1	LCSD	0.36707	0.34737	ug/m3	106	1.2	70 - 130	30		2
Tetrachloroethene	B160823-BS1	LCS	0.65479	0.67825	ug/m3	96.5		70 - 130			1
	B160823-BSD1	LCSD	0.65451	0.67825	ug/m3	96.5	0.0	70 - 130	30		2
Toluene	B160823-BS1	LCS	0.35141	0.37684	ug/m3	93.2		70 - 130			1
	B160823-BSD1	LCSD	0.35050	0.37684	ug/m3	93.0	0.3	70 - 130	30		2
1,1,1-Trichloroethane	B160823-BS1	LCS	0.51490	0.54562	ug/m3	94.4		70 - 130			1
	B160823-BSD1	LCSD	0.51605	0.54562	ug/m3	94.6	0.2	70 - 130	30		2
1,1,2-Trichloroethane	B160823-BS1	LCS	0.51168	0.54562	ug/m3	93.8		70 - 130			1
	B160823-BSD1	LCSD	0.50917	0.54562	ug/m3	93.3	0.5	70 - 130	30		2

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Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B160823											
Trichloroethene	B160823-BS1	LCS	0.51803	0.53737	ug/m3	96.4		70 - 130			1
	B160823-BSD1	LCSD	0.51051	0.53737	ug/m3	95.0	1.5	70 - 130	30		2
Vinyl chloride	B160823-BS1	LCS	0.26431	0.25562	ug/m3	103		70 - 130			1
	B160823-BSD1	LCSD	0.26625	0.25562	ug/m3	104	0.7	70 - 130	30		2
p- & m-Xylenes	B160823-BS1	LCS	0.85075	0.86843	ug/m3	98.0		70 - 130			1
	B160823-BSD1	LCSD	0.86638	0.86843	ug/m3	99.8	1.8	70 - 130	30		2
o-Xylene	B160823-BS1	LCS	0.42349	0.43421	ug/m3	97.5		70 - 130			1
	B160823-BSD1	LCSD	0.43030	0.43421	ug/m3	99.1	1.6	70 - 130	30		2
Total Xylenes	B160823-BS1	LCS	1.2742	1.3026	ug/m3	97.8		70 - 130			1
	B160823-BSD1	LCSD	1.2967	1.3026	ug/m3	99.5	1.7	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B160823-BS1	LCS	3.60	3.58	ug/m3	100		50 - 150			1
	B160823-BSD1	LCSD	3.59	3.58	ug/m3	100	0.2	50 - 150			2
QC Batch ID: B160936											
Benzene	B160936-BS1	LCS	14.888	15.974	ug/m3	93.2		70 - 130			3
	B160936-BSD1	LCSD	14.664	15.974	ug/m3	91.8	1.5	70 - 130	30		4
Chloroform	B160936-BS1	LCS	24.999	24.413	ug/m3	102		70 - 130			3
	B160936-BSD1	LCSD	24.999	24.413	ug/m3	102	0	70 - 130	30		4
Ethylbenzene	B160936-BS1	LCS	21.971	21.711	ug/m3	101		70 - 130			3
	B160936-BSD1	LCSD	21.884	21.711	ug/m3	101	0.4	70 - 130	30		4
Tetrachloroethene	B160936-BS1	LCS	36.015	33.913	ug/m3	106		70 - 130			3
	B160936-BSD1	LCSD	36.015	33.913	ug/m3	106	0	70 - 130	30		4
Toluene	B160936-BS1	LCS	19.784	18.842	ug/m3	105		70 - 130			3
	B160936-BSD1	LCSD	19.407	18.842	ug/m3	103	1.9	70 - 130	30		4
Trichloroethene	B160936-BS1	LCS	28.051	26.869	ug/m3	104		70 - 130			3
	B160936-BSD1	LCSD	27.943	26.869	ug/m3	104	0.4	70 - 130	30		4
Trichlorofluoromethane	B160936-BS1	LCS	30.901	28.092	ug/m3	110		70 - 130			3
	B160936-BSD1	LCSD	31.238	28.092	ug/m3	111	1.1	70 - 130	30		4
1,1,2-Trichloro-1,2,2-trifluoroethane	B160936-BS1	LCS	37.782	38.318	ug/m3	98.6		70 - 130			3
	B160936-BSD1	LCSD	37.322	38.318	ug/m3	97.4	1.2	70 - 130	30		4
p- & m-Xylenes	B160936-BS1	LCS	47.069	43.421	ug/m3	108		70 - 130			3
	B160936-BSD1	LCSD	47.242	43.421	ug/m3	109	0.4	70 - 130	30		4
o-Xylene	B160936-BS1	LCS	23.751	21.711	ug/m3	109		70 - 130			3
	B160936-BSD1	LCSD	23.925	21.711	ug/m3	110	0.7	70 - 130	30		4
Total Xylenes	B160936-BS1	LCS	70.820	65.132	ug/m3	109		70 - 130			3
	B160936-BSD1	LCSD	71.167	65.132	ug/m3	109	0.5	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B160936-BS1	LCS	73.6	71.6	ug/m3	103		70 - 130			3
	B160936-BSD1	LCSD	74.4	71.6	ug/m3	104	1.0	70 - 130			4

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B162153											
Benzene	B162153-BS1	LCS	14.313	15.974	ug/m3	89.6		70 - 130			5
	B162153-BSD1	LCSD	14.472	15.974	ug/m3	90.6	1.1	70 - 130		30	6
Chloroform	B162153-BS1	LCS	21.190	24.413	ug/m3	86.8		70 - 130			5
	B162153-BSD1	LCSD	21.239	24.413	ug/m3	87.0	0.2	70 - 130		30	6
Ethylbenzene	B162153-BS1	LCS	19.887	21.711	ug/m3	91.6		70 - 130			5
	B162153-BSD1	LCSD	19.670	21.711	ug/m3	90.6	1.1	70 - 130		30	6
Tetrachloroethene	B162153-BS1	LCS	30.725	33.913	ug/m3	90.6		70 - 130			5
	B162153-BSD1	LCSD	30.996	33.913	ug/m3	91.4	0.9	70 - 130		30	6
Toluene	B162153-BS1	LCS	17.448	18.842	ug/m3	92.6		70 - 130			5
	B162153-BSD1	LCSD	17.410	18.842	ug/m3	92.4	0.2	70 - 130		30	6
Trichloroethene	B162153-BS1	LCS	24.665	26.869	ug/m3	91.8		70 - 130			5
	B162153-BSD1	LCSD	24.397	26.869	ug/m3	90.8	1.1	70 - 130		30	6
Trichlorofluoromethane	B162153-BS1	LCS	24.046	28.092	ug/m3	85.6		70 - 130			5
	B162153-BSD1	LCSD	24.496	28.092	ug/m3	87.2	1.9	70 - 130		30	6
1,1,2-Trichloro-1,2,2-trifluoroethane	B162153-BS1	LCS	33.797	38.318	ug/m3	88.2		70 - 130			5
	B162153-BSD1	LCSD	34.256	38.318	ug/m3	89.4	1.4	70 - 130		30	6
p- & m-Xylenes	B162153-BS1	LCS	40.946	43.421	ug/m3	94.3		70 - 130			5
	B162153-BSD1	LCSD	40.425	43.421	ug/m3	93.1	1.3	70 - 130		30	6
o-Xylene	B162153-BS1	LCS	20.104	21.711	ug/m3	92.6		70 - 130			5
	B162153-BSD1	LCSD	20.017	21.711	ug/m3	92.2	0.4	70 - 130		30	6
Total Xylenes	B162153-BS1	LCS	61.050	65.132	ug/m3	93.7		70 - 130			5
	B162153-BSD1	LCSD	60.442	65.132	ug/m3	92.8	1.0	70 - 130		30	6
4-Bromofluorobenzene (Surrogate)	B162153-BS1	LCS	73.6	71.6	ug/m3	103		70 - 130			5
	B162153-BSD1	LCSD	73.9	71.6	ug/m3	103	0.3	70 - 130			6

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 12:51
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
1	B160823-BS1	LCS	EPA-TO-15-SIM	02/27/23	02/27/23 16:03	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run	Analyst	Instrument	Dilution
					Date Time			
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
2	B160823-BSD1	LCSD	EPA-TO-15-SIM	02/27/23	02/27/23 16:36	BEP	MS-A1	1
3	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
3	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
3	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
3	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
3	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
3	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
3	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
3	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
3	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
3	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
3	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
3	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
3	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
3	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
3	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
3	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
4	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
4	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
4	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
4	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
4	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
4	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
4	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
4	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
4	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
4	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
4	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
4	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B162267

Methane (CH4)	B162267-BLK1	ND	ppmv	2.0	1.8		1
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Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162267-BLK1	PB	ASTM-D1946	03/20/23	03/20/23 12:26	RMK	GC-A1	1

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 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162267											
Methane (CH4)	B162267-BS1	LCS	19441	18000	ppmv	108		70 - 130			1
	B162267-BSD1	LCSD	19386	18000	ppmv	108	0.3	70 - 130	30		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162267-BS1	LCS	ASTM-D1946	03/20/23	03/20/23	11:46	RMK	GC-A1	1
2	B162267-BSD1	LCSD	ASTM-D1946	03/20/23	03/20/23	12:06	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 12:51
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- C01 The calibration curve did not contain the minimum number of standards.



Date of Report: 04/03/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304475
Invoice ID: B471454, B471955, B472847

Enclosed are the results of analyses for samples received by the laboratory on 3/4/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001408465

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Section A Required Client Information

Company: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450
Long Beach, CA 90804
Email To: amy.gunn@rouxinc.com
Phone: 560-446-8624 Fax: _____
Requested Due Date/TAT: Standard

Section B Required Project Information

Report To: April McClure
Copy To: _____
Purchase Order No.: _____
Project Name: City Terrace
Project Number: 2855

Section C Invoicing Information

Attention: Roux Accounts Payable (roux@rouxinc.com)
Company Name: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
Pace Quote Reference: 00132481 & 00132533
Pace Project Manager/Sales Rep: Brianne Schute / Dawn Ginter
Pace Profile #: _____

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

1	1A-21-1
2	1A-21-2
3	1A-21-2-D
4	AA-21-1
5	
6	
7	
8	
9	
10	
11	
12	

Comments: _____

AIR: CHAIN-OF-CUSTODY / Analytical
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

2304475

Page: 1 of 1

Program

UST Spill/Leak Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other

Location of Sampling by State CA CA CA
 AZ IL IN MI MN NY OH PA RI VA WI

Method I II III IV Other _____

ITEM #	DATE	TIME	COLLECTED	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
1	3-2-23	609	3-2-23 1525	Quinn Roux 31823	3-2-23	1545	Quinn Roux 31823	3-2-23	1545	Temp in °C _____ Received on _____ Ice _____ Sealed Cooler _____ Custody _____ Samples Intact _____
2	3-2-23	608	3-2-23 1524	Quinn Roux 31823	3-2-23	1545	Quinn Roux 31823	3-2-23	1545	
3	3-2-23	608	3-2-23 1524	Quinn Roux 31823	3-2-23	1545	Quinn Roux 31823	3-2-23	1545	
4	3-2-23	1546	3-2-23 1521	Quinn Roux 31823	3-2-23	1545	Quinn Roux 31823	3-2-23	1545	

COLLECTED

DATE	TIME	INITIAL FIELD - (sig)	CANISTER PRESSURE	INITIAL FIELD - (sig)	CANISTER PRESSURE	Summa Can Number	Flow Control Number
3-2-23	609	3-2-23 1525	-30	-4	-4	27156	05274
3-2-23	608	3-2-23 1524	-30	-2	-2	8350	03792
3-2-23	608	3-2-23 1524	-30	-4	-4	0675	13688
3-2-23	1546	3-2-23 1521	-30	-2	-2	0747	05980

RELINQUISHED BY / AFFILIATION

Quinn Roux 31823

Quinn Roux 31823

Quinn Roux 31823

Quinn Roux 31823

ACCEPTED BY / AFFILIATION

Quinn Roux 31823

Quinn Roux 31823

Quinn Roux 31823

Quinn Roux 31823

SAMPLE CONDITIONS

Temp in °C _____
Received on _____
Ice _____
Sealed Cooler _____
Custody _____
Samples Intact _____

SAMPLER NAME AND SIGNATURE

NAME: Quinn Roux
SIGNATURE: [Signature]
DATE: 3-2-23

CHKBY DISTRIBUTION

IN OUT

SUB-OUT

IN OUT

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.807.8386

FC048/Rev 01, 03Feb2010

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PAGE ANALYTICAL		COOLER RECEIPT FORM		Page <u> </u> Of <u> </u>						
Submission #: <u>23-04475</u>										
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S					
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____										
Custody Seals: Ice Chest <input type="checkbox"/>		Containers <input type="checkbox"/>		None <input checked="" type="checkbox"/> Comments: _____						
Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>		Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>								
All samples received? Yes <input type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input type="checkbox"/> No <input type="checkbox"/>		Description(s) match COC? Yes <input type="checkbox"/> No <input type="checkbox"/>						
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUMMA</u> Thermometer ID: _____		Date/Time <u>3/4/23</u>						
Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C				Analyst Init <u>JCD 1120</u>						
SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr*										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8181A										
QT EPA SIS.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 519.2										
QT EPA 301SM										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz IAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A	A	A						
Comments: _____										
Sample Numbering Completed By: <u>JCD</u> Date/Time: <u>3/4/23 1245</u>										
A = Actual / C = Corrected										

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2304475-01	COC Number:	---	Receive Date:	03/04/2023 11:20
	Project Number:	---	Sampling Date:	03/03/2023 15:25
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-21-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2304475-02	COC Number:	---	Receive Date:	03/04/2023 11:20
	Project Number:	---	Sampling Date:	03/03/2023 15:24
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-21-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2304475-03	COC Number:	---	Receive Date:	03/04/2023 11:20
	Project Number:	---	Sampling Date:	03/03/2023 15:24
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-21-2-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2304475-04	COC Number:	---	Receive Date:	03/04/2023 11:20
	Project Number:	---	Sampling Date:	03/03/2023 15:21
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AA-21-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304475-01		Client Sample Name: IA-21-1, 3/3/2023 3:25:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	15	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	6.5	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.83	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.82	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304475-01		Client Sample Name: IA-21-1, 3/3/2023 3:25:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	0.58	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	67	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.45	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	9.2	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Methyl ethyl ketone	1.1	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304475-01		Client Sample Name: IA-21-1, 3/3/2023 3:25:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	1.8	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.9	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
1,2,4-Trimethylbenzene	0.64	ug/m3	5.0	0.40	EPA-TO-15	ND	J	1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	1.3	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.6	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	0.48	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
o-Xylene	0.55	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	1.7	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	2.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	98.3	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	107	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304475-01		Client Sample Name: IA-21-1, 3/3/2023 3:25:00PM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/17/23 13:12	03/18/23 19:39	BEP	MS-A2	1	B162179	EPA TO-15	
2	EPA-TO-15-SIM	03/07/23 13:07	03/08/23 09:26	BEP	MS-A2	1	B161383	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304475-01	Client Sample Name: IA-21-1, 3/3/2023 3:25:00PM, Client
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	31	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/21/23 08:24	03/21/23 14:58	RMK	GC-A1	1	B162343	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
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 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304475-02		Client Sample Name: IA-21-2, 3/3/2023 3:24:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	20	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	8.9	ug/m3	2.0	0.015	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.86	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.85	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	0.52	ug/m3	2.0	0.38	EPA-TO-15	ND	J	1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.0	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304475-02		Client Sample Name: IA-21-2, 3/3/2023 3:24:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	0.62	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	84	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.55	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	1.4	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
n-Heptane	0.45	ug/m3	2.0	0.34	EPA-TO-15	ND	J	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	15	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	2.0	ug/m3	0.40	0.015	EPA-TO-15-SIM	ND	A01	2
Methyl ethyl ketone	1.2	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304475-02		Client Sample Name: IA-21-2, 3/3/2023 3:24:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	2.0	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	2.0	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	2.0	ug/m3	5.0	0.40	EPA-TO-15	ND	J	1
1,3,5-Trimethylbenzene	0.69	ug/m3	5.0	0.40	EPA-TO-15	ND	J	1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.5	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.9	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.56	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
o-Xylene	0.70	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	2.0	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	2.6	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	97.2	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	104	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	114	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Reported: 04/03/2023 13:13
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304475-02	Client Sample Name: IA-21-2, 3/3/2023 3:24:00PM, Client								
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/17/23 13:12	03/18/23 20:24	BEP	MS-A2	1	B162179	EPA TO-15	
2	EPA-TO-15-SIM	03/07/23 13:07	03/08/23 14:22	BEP	MS-A2	2	B161383	EPA TO-15	
3	EPA-TO-15-SIM	03/07/23 13:07	03/08/23 10:11	BEP	MS-A2	1	B161383	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304475-02	Client Sample Name: IA-21-2, 3/3/2023 3:24:00PM, Client
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	6.1	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/21/23 08:24	03/21/23 16:00	RMK	GC-A1	1	B162343	No Prep

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304475-03		Client Sample Name: IA-21-2-D, 3/3/2023 3:24:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	20	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	8.8	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.89	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.87	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2

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Roux Associates, Inc -Long Beach
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 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304475-03		Client Sample Name: IA-21-2-D, 3/3/2023 3:24:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	0.54	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	83	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.56	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
1-Ethyl-4-methylbenzene	1.4	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
n-Heptane	0.45	ug/m3	2.0	0.34	EPA-TO-15	ND	J	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	15	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Methyl ethyl ketone	1.2	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304475-03		Client Sample Name: IA-21-2-D, 3/3/2023 3:24:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	2.0	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	2.0	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
1,2,4-Trimethylbenzene	2.0	ug/m3	5.0	0.40	EPA-TO-15	ND	J	1
1,3,5-Trimethylbenzene	0.69	ug/m3	5.0	0.40	EPA-TO-15	ND	J	1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	1.4	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.9	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	0.56	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
o-Xylene	0.71	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	2.0	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	2.6	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	99.0	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	113	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:13
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304475-03	Client Sample Name: IA-21-2-D, 3/3/2023 3:24:00PM, Client								
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/17/23 13:12	03/18/23 21:10	BEP	MS-A2	1	B162179	EPA TO-15	
2	EPA-TO-15-SIM	03/07/23 13:07	03/08/23 10:56	BEP	MS-A2	1	B161383	EPA TO-15	

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304475-03	Client Sample Name: IA-21-2-D, 3/3/2023 3:24:00PM, Client
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	8.2	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/21/23 08:24	03/21/23 16:20	RMK	GC-A1	1	B162343	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304475-04		Client Sample Name: AA-21-1, 3/3/2023 3:21:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	12	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	5.7	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.80	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.82	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.2	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304475-04		Client Sample Name: AA-21-1, 3/3/2023 3:21:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	0.56	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	9.3	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.53	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	0.49	ug/m3	5.0	0.20	EPA-TO-15	ND	J	1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	3.6	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Methyl ethyl ketone	1.3	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304475-04		Client Sample Name: AA-21-1, 3/3/2023 3:21:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	1.8	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	2.0	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	1.5	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.9	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	0.52	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
o-Xylene	0.62	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	2.0	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	2.5	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	99.3	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	104	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2

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Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304475-04	Client Sample Name: AA-21-1, 3/3/2023 3:21:00PM, Client								
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/17/23 13:12	03/18/23 21:55	BEP	MS-A2	1	B162179	EPA TO-15	
2	EPA-TO-15-SIM	03/07/23 13:07	03/08/23 11:41	BEP	MS-A2	1	B161383	EPA TO-15	

DCN = Data Continuation Number

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Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304475-04	Client Sample Name: AA-21-1, 3/3/2023 3:21:00PM, Client
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.9	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/21/23 08:24	03/21/23 16:41	RMK	GC-A1	1	B162343	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 13:13
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 Project Number: 2855
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Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161383							
Acetone	B161383-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B161383-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B161383-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B161383-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B161383-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B161383-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B161383-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B161383-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B161383-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B161383-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B161383-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B161383-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B161383-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B161383-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B161383-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B161383-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B161383-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B161383-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B161383-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B161383-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B161383-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B161383-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B161383-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B161383-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B161383-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B161383-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161383-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B161383-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B161383-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B161383-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B161383-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B161383-BLK1	97.5	%	50 - 150 (LCL - UCL)			1
QC Batch ID: B162179							

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162179							
Acetone	B162179-BLK1	ND	ug/m3	5.0	0.43		2
Acrylonitrile	B162179-BLK1	ND	ug/m3	2.0	0.27		2
Allyl chloride	B162179-BLK1	ND	ug/m3	2.0	0.28		2
Benzene	B162179-BLK1	ND	ug/m3	2.0	0.21		2
Benzyl chloride	B162179-BLK1	ND	ug/m3	10	0.26		2
Bromodichloromethane	B162179-BLK1	ND	ug/m3	5.0	0.45		2
Bromoform	B162179-BLK1	ND	ug/m3	10	0.86		2
Bromomethane	B162179-BLK1	ND	ug/m3	2.0	0.47		2
1,3-Butadiene	B162179-BLK1	ND	ug/m3	2.0	0.22		2
Carbon disulfide	B162179-BLK1	ND	ug/m3	2.0	0.19		2
Carbon tetrachloride	B162179-BLK1	ND	ug/m3	5.0	0.45		2
Chlorobenzene	B162179-BLK1	ND	ug/m3	5.0	0.40		2
Chloroethane	B162179-BLK1	ND	ug/m3	2.0	0.53		2
Chloroform	B162179-BLK1	ND	ug/m3	5.0	0.54		2
Chloromethane	B162179-BLK1	ND	ug/m3	2.0	0.21		2
Cyclohexane	B162179-BLK1	ND	ug/m3	2.0	0.38		2
Dibromochloromethane	B162179-BLK1	ND	ug/m3	5.0	0.43		2
1,2-Dibromoethane	B162179-BLK1	ND	ug/m3	5.0	0.58		2
1,2-Dichlorobenzene	B162179-BLK1	ND	ug/m3	5.0	0.50		2
1,3-Dichlorobenzene	B162179-BLK1	ND	ug/m3	5.0	0.31		2
1,4-Dichlorobenzene	B162179-BLK1	ND	ug/m3	5.0	0.50		2
Dichlorodifluoromethane	B162179-BLK1	ND	ug/m3	5.0	0.45		2
1,1-Dichloroethane	B162179-BLK1	ND	ug/m3	5.0	0.23		2
1,2-Dichloroethane	B162179-BLK1	ND	ug/m3	5.0	0.26		2
1,1-Dichloroethene	B162179-BLK1	ND	ug/m3	5.0	0.31		2
cis-1,2-Dichloroethene	B162179-BLK1	ND	ug/m3	2.0	0.32		2
trans-1,2-Dichloroethene	B162179-BLK1	ND	ug/m3	2.0	0.27		2
1,2-Dichloropropane	B162179-BLK1	ND	ug/m3	5.0	0.32		2
cis-1,3-Dichloropropene	B162179-BLK1	ND	ug/m3	5.0	0.30		2
trans-1,3-Dichloropropene	B162179-BLK1	ND	ug/m3	5.0	0.40		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162179-BLK1	ND	ug/m3	5.0	0.91		2
1,1-Difluoroethane	B162179-BLK1	ND	ug/m3	5.0	2.0		2
1,4-Dioxane	B162179-BLK1	ND	ug/m3	2.0	0.33		2
Ethanol	B162179-BLK1	ND	ug/m3	2.0	0.42		2

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162179							
Ethyl acetate	B162179-BLK1	ND	ug/m3	2.0	0.33		2
Ethylbenzene	B162179-BLK1	ND	ug/m3	5.0	0.32		2
1-Ethyl-4-methylbenzene	B162179-BLK1	ND	ug/m3	5.0	0.30		2
n-Heptane	B162179-BLK1	ND	ug/m3	2.0	0.34		2
Hexachlorobutadiene	B162179-BLK1	ND	ug/m3	10	1.5		2
Hexane	B162179-BLK1	ND	ug/m3	5.0	0.20		2
2-Hexanone	B162179-BLK1	ND	ug/m3	5.0	0.29		2
Isopropyl alcohol	B162179-BLK1	ND	ug/m3	2.0	0.32		2
Methylene chloride	B162179-BLK1	ND	ug/m3	10	0.40		2
Methyl ethyl ketone	B162179-BLK1	ND	ug/m3	2.0	0.19		2
Methyl isobutyl ketone	B162179-BLK1	ND	ug/m3	5.0	0.26		2
Methyl t-butyl ether	B162179-BLK1	ND	ug/m3	2.0	0.28		2
Propylene	B162179-BLK1	ND	ug/m3	2.0	0.25		2
Styrene	B162179-BLK1	ND	ug/m3	5.0	0.24		2
1,1,2,2-Tetrachloroethane	B162179-BLK1	ND	ug/m3	5.0	0.47		2
Tetrachloroethene	B162179-BLK1	ND	ug/m3	2.0	0.50		2
Tetrahydrofuran	B162179-BLK1	ND	ug/m3	2.0	0.27		2
Toluene	B162179-BLK1	ND	ug/m3	2.0	0.27		2
1,2,4-Trichlorobenzene	B162179-BLK1	ND	ug/m3	10	0.82		2
1,1,1-Trichloroethane	B162179-BLK1	ND	ug/m3	5.0	0.39		2
1,1,2-Trichloroethane	B162179-BLK1	ND	ug/m3	5.0	0.61		2
Trichloroethene	B162179-BLK1	ND	ug/m3	2.0	0.54		2
Trichlorofluoromethane	B162179-BLK1	ND	ug/m3	5.0	0.47		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B162179-BLK1	ND	ug/m3	5.0	0.55		2
1,2,4-Trimethylbenzene	B162179-BLK1	ND	ug/m3	5.0	0.40		2
1,3,5-Trimethylbenzene	B162179-BLK1	ND	ug/m3	5.0	0.40		2
Vinyl acetate	B162179-BLK1	ND	ug/m3	2.0	0.33		2
Vinyl chloride	B162179-BLK1	ND	ug/m3	2.0	0.39		2
p- & m-Xylenes	B162179-BLK1	ND	ug/m3	5.0	0.61		2
o-Xylene	B162179-BLK1	ND	ug/m3	5.0	0.30		2
Total Xylenes	B162179-BLK1	ND	ug/m3	10	0.91		2
4-Bromofluorobenzene (Surrogate)	B162179-BLK1	0	%	70 - 130 (LCL - UCL)	S09		2

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:13
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161383-BLK1	PB	EPA-TO-15-SIM	03/07/23	03/08/23 02:15	BEP	MS-A2	1
2	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23 06:11	BEP	MS-A2	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161383											
Benzene	B161383-BS1	LCS	0.29682	0.31948	ug/m3	92.9		70 - 130			1
	B161383-BSD1	LCSD	0.29411	0.31948	ug/m3	92.1	0.9	70 - 130	30		2
Benzyl chloride	B161383-BS1	LCS	0.53191	0.51772	ug/m3	103		70 - 130			1
	B161383-BSD1	LCSD	0.52673	0.51772	ug/m3	102	1.0	70 - 130	30		2
Carbon tetrachloride	B161383-BS1	LCS	0.61246	0.62913	ug/m3	97.4		70 - 130			1
	B161383-BSD1	LCSD	0.60831	0.62913	ug/m3	96.7	0.7	70 - 130	30		2
Chlorobenzene	B161383-BS1	LCS	0.44954	0.46036	ug/m3	97.6		70 - 130			1
	B161383-BSD1	LCSD	0.44512	0.46036	ug/m3	96.7	1.0	70 - 130	30		2
Chloroform	B161383-BS1	LCS	0.46941	0.48825	ug/m3	96.1		70 - 130			1
	B161383-BSD1	LCSD	0.46589	0.48825	ug/m3	95.4	0.8	70 - 130	30		2
1,2-Dibromoethane	B161383-BS1	LCS	0.74722	0.76835	ug/m3	97.2		70 - 130			1
	B161383-BSD1	LCSD	0.74315	0.76835	ug/m3	96.7	0.5	70 - 130	30		2
1,2-Dichlorobenzene	B161383-BS1	LCS	0.63683	0.60124	ug/m3	106		70 - 130			1
	B161383-BSD1	LCSD	0.61176	0.60124	ug/m3	102	4.0	70 - 130	30		2
1,3-Dichlorobenzene	B161383-BS1	LCS	0.64416	0.60124	ug/m3	107		70 - 130			1
	B161383-BSD1	LCSD	0.62769	0.60124	ug/m3	104	2.6	70 - 130	30		2
1,4-Dichlorobenzene	B161383-BS1	LCS	0.65108	0.60124	ug/m3	108		70 - 130			1
	B161383-BSD1	LCSD	0.62769	0.60124	ug/m3	104	3.7	70 - 130	30		2
1,1-Dichloroethane	B161383-BS1	LCS	0.38616	0.40474	ug/m3	95.4		70 - 130			1
	B161383-BSD1	LCSD	0.38341	0.40474	ug/m3	94.7	0.7	70 - 130	30		2
1,2-Dichloroethane	B161383-BS1	LCS	0.39183	0.40474	ug/m3	96.8		70 - 130			1
	B161383-BSD1	LCSD	0.38458	0.40474	ug/m3	95.0	1.9	70 - 130	30		2
1,1-Dichloroethene	B161383-BS1	LCS	0.37298	0.39649	ug/m3	94.1		70 - 130			1
	B161383-BSD1	LCSD	0.36997	0.39649	ug/m3	93.3	0.8	70 - 130	30		2
cis-1,2-Dichloroethene	B161383-BS1	LCS	0.37497	0.39649	ug/m3	94.6		70 - 130			1
	B161383-BSD1	LCSD	0.36949	0.39649	ug/m3	93.2	1.5	70 - 130	30		2
Methylene chloride	B161383-BS1	LCS	0.34783	0.34737	ug/m3	100		70 - 130			1
	B161383-BSD1	LCSD	0.34418	0.34737	ug/m3	99.1	1.1	70 - 130	30		2
Tetrachloroethene	B161383-BS1	LCS	0.65458	0.67825	ug/m3	96.5		70 - 130			1
	B161383-BSD1	LCSD	0.64285	0.67825	ug/m3	94.8	1.8	70 - 130	30		2
Toluene	B161383-BS1	LCS	0.35698	0.37684	ug/m3	94.7		70 - 130			1
	B161383-BSD1	LCSD	0.35333	0.37684	ug/m3	93.8	1.0	70 - 130	30		2
1,1,1-Trichloroethane	B161383-BS1	LCS	0.52363	0.54562	ug/m3	96.0		70 - 130			1
	B161383-BSD1	LCSD	0.52019	0.54562	ug/m3	95.3	0.7	70 - 130	30		2
1,1,2-Trichloroethane	B161383-BS1	LCS	0.52450	0.54562	ug/m3	96.1		70 - 130			1
	B161383-BSD1	LCSD	0.52587	0.54562	ug/m3	96.4	0.3	70 - 130	30		2

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Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161383											
Trichloroethene	B161383-BS1	LCS	0.51287	0.53737	ug/m3	95.4		70 - 130			1
	B161383-BSD1	LCSD	0.50626	0.53737	ug/m3	94.2	1.3	70 - 130	30		2
Vinyl chloride	B161383-BS1	LCS	0.26078	0.25562	ug/m3	102		70 - 130			1
	B161383-BSD1	LCSD	0.25027	0.25562	ug/m3	97.9	4.1	70 - 130	30		2
p- & m-Xylenes	B161383-BS1	LCS	0.89166	0.86843	ug/m3	103		70 - 130			1
	B161383-BSD1	LCSD	0.87277	0.86843	ug/m3	100	2.1	70 - 130	30		2
o-Xylene	B161383-BS1	LCS	0.43174	0.43421	ug/m3	99.4		70 - 130			1
	B161383-BSD1	LCSD	0.42427	0.43421	ug/m3	97.7	1.7	70 - 130	30		2
Total Xylenes	B161383-BS1	LCS	1.3234	1.3026	ug/m3	102		70 - 130			1
	B161383-BSD1	LCSD	1.2970	1.3026	ug/m3	99.6	2.0	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161383-BS1	LCS	3.81	3.58	ug/m3	106		50 - 150			1
	B161383-BSD1	LCSD	3.75	3.58	ug/m3	105	1.7	50 - 150			2
QC Batch ID: B162179											
Benzene	B162179-BS1	LCS	15.175	15.974	ug/m3	95.0		70 - 130			3
	B162179-BSD1	LCSD	15.239	15.974	ug/m3	95.4	0.4	70 - 130	30		4
Chloroform	B162179-BS1	LCS	22.899	24.413	ug/m3	93.8		70 - 130			3
	B162179-BSD1	LCSD	22.948	24.413	ug/m3	94.0	0.2	70 - 130	30		4
Ethylbenzene	B162179-BS1	LCS	20.451	21.711	ug/m3	94.2		70 - 130			3
	B162179-BSD1	LCSD	20.321	21.711	ug/m3	93.6	0.6	70 - 130	30		4
Tetrachloroethene	B162179-BS1	LCS	34.184	33.913	ug/m3	101		70 - 130			3
	B162179-BSD1	LCSD	33.302	33.913	ug/m3	98.2	2.6	70 - 130	30		4
Toluene	B162179-BS1	LCS	18.805	18.842	ug/m3	99.8		70 - 130			3
	B162179-BSD1	LCSD	18.578	18.842	ug/m3	98.6	1.2	70 - 130	30		4
Trichloroethene	B162179-BS1	LCS	26.385	26.869	ug/m3	98.2		70 - 130			3
	B162179-BSD1	LCSD	26.331	26.869	ug/m3	98.0	0.2	70 - 130	30		4
Trichlorofluoromethane	B162179-BS1	LCS	26.631	28.092	ug/m3	94.8		70 - 130			3
	B162179-BSD1	LCSD	26.575	28.092	ug/m3	94.6	0.2	70 - 130	30		4
1,1,2-Trichloro-1,2,2-trifluoroethane	B162179-BS1	LCS	36.096	38.318	ug/m3	94.2		70 - 130			3
	B162179-BSD1	LCSD	36.249	38.318	ug/m3	94.6	0.4	70 - 130	30		4
p- & m-Xylenes	B162179-BS1	LCS	43.030	43.421	ug/m3	99.1		70 - 130			3
	B162179-BSD1	LCSD	42.509	43.421	ug/m3	97.9	1.2	70 - 130	30		4
o-Xylene	B162179-BS1	LCS	21.276	21.711	ug/m3	98.0		70 - 130			3
	B162179-BSD1	LCSD	20.972	21.711	ug/m3	96.6	1.4	70 - 130	30		4
Total Xylenes	B162179-BS1	LCS	64.307	65.132	ug/m3	98.7		70 - 130			3
	B162179-BSD1	LCSD	63.482	65.132	ug/m3	97.5	1.3	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B162179-BS1	LCS	73.5	71.6	ug/m3	103		70 - 130			3
	B162179-BSD1	LCSD	73.4	71.6	ug/m3	102	0.2	70 - 130			4

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Reported: 04/03/2023 13:13
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Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161383-BS1	LCS	EPA-TO-15-SIM	03/07/23	03/08/23 01:02	BEP	MS-A2	1
2	B161383-BSD1	LCSD	EPA-TO-15-SIM	03/07/23	03/08/23 01:41	BEP	MS-A2	1
3	B162179-BS1	LCS	EPA-TO-15	03/17/23	03/18/23 04:58	BEP	MS-A2	1
4	B162179-BSD1	LCSD	EPA-TO-15	03/17/23	03/18/23 05:37	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B162343

Methane (CH4)	B162343-BLK1	ND	ppmv	2.0	1.8		1
---------------	--------------	----	------	-----	-----	--	---

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162343-BLK1	PB	ASTM-D1946	03/21/23	03/21/23 12:25	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:13
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162343											
Methane (CH4)	B162343-BS1	LCS	19312	18000	ppmv	107		70 - 130			1
	B162343-BSD1	LCSD	19330	18000	ppmv	107	0.1	70 - 130	30		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162343-BS1	LCS	ASTM-D1946	03/21/23	03/21/23	11:44	RMK	GC-A1	1
2	B162343-BSD1	LCSD	ASTM-D1946	03/21/23	03/21/23	12:05	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:13
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- C01 The calibration curve did not contain the minimum number of standards.
- S09 The surrogate recovery for this compound was not within the control limits.



Date of Report: 03/15/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304944
Invoice ID: B471496

Enclosed are the results of analyses for samples received by the laboratory on 3/9/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Quality Control Reports

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2304944

AIR: CHAIN-OF-CUSTODY / ANALYSIS
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields m...

Page: 1 of 1

Section A Required Client Information Company: <u>Roux</u> Address: <u>5150 E. Pacific Coast Hwy, Ste. 450</u> <u>Long Beach, CA 90804</u> Email To: <u>amc@roux.com</u> Phone: <u>562-441-8624</u> Fax: _____ Requested Due Date (TAT): <u>Standard</u>		Section B Required Project Information Report To: <u>April McGuire</u> Copy To: _____ Purchase Order No.: _____ Project Name: <u>City Terrace</u> Project Number: <u>2855</u>		Section C Invoice Information Attention: <u>Roux Accounts Payable (roux@roux.com)</u> Company Name: <u>Roux</u> Address: <u>5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804</u> Pace Quote Reference: <u>00132481 & 00132633</u> Pace Project Manager/Sales Rep: <u>Ingrana Schulte / Dawn Emor</u> Pace Profile #: _____		Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/>	
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE 1 <u>SV-21-1</u> 2 <u>SV-21-2</u> 3 _____ 4 _____ 5 _____ 6 _____ 7 _____ 8 _____ 9 _____ 10 _____ 11 _____ 12 _____		Report Level: <u>II</u> , <u>III</u> , <u>IV</u> , <u>Other</u> Method: _____ Location of Sampling by State: <u>CA</u> Report Level: <u>II</u> , <u>III</u> , <u>IV</u> , <u>Other</u>		Method: <input type="checkbox"/> PM10 <input type="checkbox"/> SC-Fined Gas (%) <input type="checkbox"/> TO-3 <input type="checkbox"/> TO-3M (Methane) <input type="checkbox"/> TO-4 (CERCLA) <input type="checkbox"/> TO-13 (PAH) <input type="checkbox"/> TO-14 <input type="checkbox"/> TO-15 <input type="checkbox"/> TO-15 Shim Lab <input type="checkbox"/> TO-15 SIM <input type="checkbox"/>		Location of Sampling by State: <u>CA</u> Report Level: <u>II</u> , <u>III</u> , <u>IV</u> , <u>Other</u>	
Flow Control Number 1 5 3 4 2 8 5 1 4 2 9		Summa Can Number 101179 28851		CRITERIA PRESSURE (Final Field - psig) 28.5 - 5 27 - 3.5		CRITERIA PRESSURE (Final Field - psig) 28.5 - 5 27 - 3.5	
COLLECTED DATE: <u>3/8/13</u> TIME: <u>12:16</u> DATE: <u>3/8/13</u> TIME: <u>12:26</u> <u>3/8/13</u> <u>11:31</u> <u>3/8/13</u> <u>12:38</u>		RELINQUISHED BY / AFFILIATION <u>Cameron Jones (Roux)</u> <u>3/8/13 17:48</u> <u>Alex Perchik (Roux)</u> <u>3/8/13 18:15</u>		ACCEPTED BY / AFFILIATION <u>Alex Perchik (Roux)</u> <u>3/8/13 17:48</u> <u>Ameyya</u> <u>3-9-23 11:12</u>		DATE: _____ TIME: _____ DATE: _____ TIME: _____	
COMMENTS: _____ _____ _____		RELINQUISHED BY / AFFILIATION <u>Cameron Jones (Roux)</u> <u>3/8/13 17:48</u> <u>Alex Perchik (Roux)</u> <u>3/8/13 18:15</u>		ACCEPTED BY / AFFILIATION <u>Alex Perchik (Roux)</u> <u>3/8/13 17:48</u> <u>Ameyya</u> <u>3-9-23 11:12</u>		DATE: _____ TIME: _____ DATE: _____ TIME: _____	
AIR SAMPLE ID Sample IDs MUST BE UNIQUE 1 <u>SV-21-1</u> 2 <u>SV-21-2</u> 3 _____ 4 _____ 5 _____ 6 _____ 7 _____ 8 _____ 9 _____ 10 _____ 11 _____ 12 _____		RELINQUISHED BY / AFFILIATION <u>Cameron Jones (Roux)</u> <u>3/8/13 17:48</u> <u>Alex Perchik (Roux)</u> <u>3/8/13 18:15</u>		ACCEPTED BY / AFFILIATION <u>Alex Perchik (Roux)</u> <u>3/8/13 17:48</u> <u>Ameyya</u> <u>3-9-23 11:12</u>		DATE: _____ TIME: _____ DATE: _____ TIME: _____	

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612-76386

FC046Rev.01, 03Feb2

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PAGE ANALYTICAL		COOLER RECEIPT FORM		Page	Of
Submission #: <u>23-04944</u>					
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUNVA</u> Thermometer ID: _____		Date/Time <u>3-9-23</u>	
		Temperature: (A) <u>Room</u> °C (C) <u>Temp</u> °C		Analyst Init <u>Spart 1112</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁴										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - S64										
QT EPA 508/608/308/1A										
QT EPA 515.1/515.1A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 9015M										
QT EPA 5270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz IAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUNVA CANISTER	<u>1.4L</u>	<u>A</u>	<u>A</u>							

Comments: _____
 Sample Numbering Completed By: JCP Date/Time: 3-10-23 11:15
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/15/2023 17:03
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304944-01	COC Number:	---	Receive Date:	03/09/2023 11:12
	Project Number:	---	Sampling Date:	03/08/2023 12:26
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-21-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2304944-02	COC Number:	---	Receive Date:	03/09/2023 11:12
	Project Number:	---	Sampling Date:	03/08/2023 12:38
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-21-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/15/2023 17:03
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304944-01		Client Sample Name: SV-21-1, 3/8/2023 12:26:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	34	ug/m3	8.6	0.74	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.4	0.46	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.4	0.48	EPA-TO-15	ND	A01	1
Benzene	1.4	ug/m3	3.4	0.36	EPA-TO-15	ND	J,A01	1
Benzyl chloride	ND	ug/m3	17	0.45	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.6	0.77	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	17	1.5	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.4	0.81	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.4	0.38	EPA-TO-15	ND	A01	1
Carbon disulfide	6.4	ug/m3	3.4	0.33	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.6	0.77	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.6	0.69	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.4	0.91	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	8.6	0.93	EPA-TO-15	ND	A01	1
Chloromethane	1.3	ug/m3	3.4	0.36	EPA-TO-15	ND	J,A01	1
Cyclohexane	1.2	ug/m3	3.4	0.65	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	8.6	0.74	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.6	1.0	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.6	0.86	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.6	0.53	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.6	0.86	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.9	ug/m3	8.6	0.77	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.6	0.40	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.6	0.45	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.6	0.53	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.4	0.55	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.4	0.46	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.6	0.55	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.6	0.52	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.6	0.69	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.6	1.6	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.6	3.4	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.4	0.57	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/15/2023 17:03
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304944-01		Client Sample Name: SV-21-1, 3/8/2023 12:26:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	17	ug/m3	3.4	0.72	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	3.4	0.57	EPA-TO-15	ND	A01	1
Ethylbenzene	1.6	ug/m3	8.6	0.55	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	8.6	0.52	EPA-TO-15	ND	A01	1
n-Heptane	0.85	ug/m3	3.4	0.58	EPA-TO-15	ND	J,A01	1
Hexachlorobutadiene	ND	ug/m3	17	2.6	EPA-TO-15	ND	A01	1
Hexane	1.0	ug/m3	8.6	0.34	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	8.6	0.50	EPA-TO-15	ND	A01	1
Isopropyl alcohol	21	ug/m3	3.4	0.55	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	17	0.69	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	2.9	ug/m3	3.4	0.33	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	ND	ug/m3	8.6	0.45	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	3.4	0.48	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.4	0.43	EPA-TO-15	ND	A01	1
Styrene	1.4	ug/m3	8.6	0.41	EPA-TO-15	ND	J,A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.6	0.81	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.4	0.86	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.4	0.46	EPA-TO-15	ND	A01	1
Toluene	3.4	ug/m3	3.4	0.46	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	17	1.4	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.6	0.67	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.6	1.0	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.4	0.93	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.5	ug/m3	8.6	0.81	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.6	0.95	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.3	ug/m3	8.6	0.69	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.6	0.69	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.4	0.57	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.4	0.67	EPA-TO-15	ND	A01	1
p- & m-Xylenes	4.9	ug/m3	8.6	1.0	EPA-TO-15	ND	J,A01	1
o-Xylene	1.6	ug/m3	8.6	0.52	EPA-TO-15	ND	J,A01	1
Total Xylenes	6.6	ug/m3	17	1.6	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	97.8	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/15/2023 17:03
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304944-01	Client Sample Name: SV-21-1, 3/8/2023 12:26:00PM, Client
----------------------------------	---

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15	03/13/23 13:46	03/14/23	03:34	BEP	MS-A1	1.720	B161764	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/15/2023 17:03
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304944-02		Client Sample Name: SV-21-2, 3/8/2023 12:38:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	18	ug/m3	8.0	0.68	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Benzene	3.5	ug/m3	3.2	0.33	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.41	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.2	0.75	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.2	0.35	EPA-TO-15	ND	A01	1
Carbon disulfide	19	ug/m3	3.2	0.30	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.2	0.84	EPA-TO-15	ND	A01	1
Chloroform	1.8	ug/m3	8.0	0.86	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.2	0.33	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	3.2	0.60	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	8.0	0.68	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.0	0.92	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.0	0.49	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.9	ug/m3	8.0	0.72	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.0	0.37	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.0	0.41	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.0	0.49	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.2	0.51	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.0	0.51	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.0	0.48	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.0	1.4	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.0	3.2	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/15/2023 17:03
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304944-02		Client Sample Name: SV-21-2, 3/8/2023 12:38:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	9.3	ug/m3	3.2	0.67	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
Ethylbenzene	2.7	ug/m3	8.0	0.51	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	8.0	0.48	EPA-TO-15	ND	A01	1
n-Heptane	ND	ug/m3	3.2	0.54	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	1
Hexane	ND	ug/m3	8.0	0.32	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ug/m3	8.0	0.46	EPA-TO-15	ND	A01	1
Isopropyl alcohol	17	ug/m3	3.2	0.51	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.64	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	4.7	ug/m3	3.2	0.30	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ug/m3	8.0	0.41	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.2	0.40	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	8.0	0.38	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.0	0.75	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.2	0.80	EPA-TO-15	ND	A01	1
Tetrahydrofuran	1.7	ug/m3	3.2	0.43	EPA-TO-15	ND	J,A01	1
Toluene	4.7	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.0	0.62	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.0	0.97	EPA-TO-15	ND	A01	1
Trichloroethene	1.0	ug/m3	3.2	0.86	EPA-TO-15	ND	J,A01	1
Trichlorofluoromethane	1.4	ug/m3	8.0	0.75	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.0	0.87	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.4	ug/m3	8.0	0.64	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.2	0.62	EPA-TO-15	ND	A01	1
p- & m-Xylenes	9.2	ug/m3	8.0	0.97	EPA-TO-15	ND	A01	1
o-Xylene	2.8	ug/m3	8.0	0.48	EPA-TO-15	ND	J,A01	1
Total Xylenes	12	ug/m3	16	1.4	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	98.3	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/15/2023 17:03
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304944-02	Client Sample Name: SV-21-2, 3/8/2023 12:38:00PM, Client
----------------------------------	---

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	03/13/23 13:46	03/14/23 04:11	BEP	MS-A1	1.590	B161764 EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/15/2023 17:03
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161764							
Acetone	B161764-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B161764-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B161764-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B161764-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B161764-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B161764-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B161764-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B161764-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B161764-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B161764-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B161764-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B161764-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B161764-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B161764-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B161764-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B161764-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B161764-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B161764-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B161764-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B161764-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B161764-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B161764-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B161764-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B161764-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B161764-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B161764-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B161764-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B161764-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B161764-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B161764-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B161764-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B161764-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B161764-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B161764-BLK1	ND	ug/m3	2.0	0.42		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/15/2023 17:03
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161764							
Ethyl acetate	B161764-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B161764-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B161764-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B161764-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B161764-BLK1	ND	ug/m3	10	1.5		1
Hexane	B161764-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B161764-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B161764-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B161764-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B161764-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B161764-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B161764-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B161764-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B161764-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B161764-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B161764-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B161764-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B161764-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B161764-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B161764-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B161764-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B161764-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B161764-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161764-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B161764-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B161764-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B161764-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B161764-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B161764-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B161764-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B161764-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B161764-BLK1	93.2	%	70 - 130 (LCL - UCL)			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/15/2023 17:03
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161764-BLK1	PB	EPA-TO-15	03/13/23	03/13/23 17:09	BEP	MS-A1	1

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 Long Beach, CA 90804

Reported: 03/15/2023 17:03
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B161764											
Benzene	B161764-BS1	LCS	14.664	15.974	ug/m3	91.8		70 - 130			1
	B161764-BSD1	LCSD	14.760	15.974	ug/m3	92.4	0.7	70 - 130	30		2
Chloroform	B161764-BS1	LCS	22.216	24.413	ug/m3	91.0		70 - 130			1
	B161764-BSD1	LCSD	22.508	24.413	ug/m3	92.2	1.3	70 - 130	30		2
Ethylbenzene	B161764-BS1	LCS	20.191	21.711	ug/m3	93.0		70 - 130			1
	B161764-BSD1	LCSD	20.625	21.711	ug/m3	95.0	2.1	70 - 130	30		2
Tetrachloroethene	B161764-BS1	LCS	30.250	33.913	ug/m3	89.2		70 - 130			1
	B161764-BSD1	LCSD	30.793	33.913	ug/m3	90.8	1.8	70 - 130	30		2
Toluene	B161764-BS1	LCS	17.938	18.842	ug/m3	95.2		70 - 130			1
	B161764-BSD1	LCSD	18.126	18.842	ug/m3	96.2	1.0	70 - 130	30		2
Trichloroethene	B161764-BS1	LCS	23.913	26.869	ug/m3	89.0		70 - 130			1
	B161764-BSD1	LCSD	24.074	26.869	ug/m3	89.6	0.7	70 - 130	30		2
Trichlorofluoromethane	B161764-BS1	LCS	25.788	28.092	ug/m3	91.8		70 - 130			1
	B161764-BSD1	LCSD	25.957	28.092	ug/m3	92.4	0.7	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B161764-BS1	LCS	34.103	38.318	ug/m3	89.0		70 - 130			1
	B161764-BSD1	LCSD	34.716	38.318	ug/m3	90.6	1.8	70 - 130	30		2
p- & m-Xylenes	B161764-BS1	LCS	41.207	43.421	ug/m3	94.9		70 - 130			1
	B161764-BSD1	LCSD	41.250	43.421	ug/m3	95.0	0.1	70 - 130	30		2
o-Xylene	B161764-BS1	LCS	20.625	21.711	ug/m3	95.0		70 - 130			1
	B161764-BSD1	LCSD	20.712	21.711	ug/m3	95.4	0.4	70 - 130	30		2
Total Xylenes	B161764-BS1	LCS	61.832	65.132	ug/m3	94.9		70 - 130			1
	B161764-BSD1	LCSD	61.962	65.132	ug/m3	95.1	0.2	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161764-BS1	LCS	72.4	71.6	ug/m3	101		70 - 130			1
	B161764-BSD1	LCSD	72.1	71.6	ug/m3	101	0.4	70 - 130			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B161764-BS1	LCS	EPA-TO-15	03/13/23	03/13/23	16:08	BEP	MS-A1	1
2	B161764-BSD1	LCSD	EPA-TO-15	03/13/23	03/13/23	16:40	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/15/2023 17:03
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

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



Date of Report: 04/07/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304755
Invoice ID: B471438

Enclosed are the results of analyses for samples received by the laboratory on 3/8/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001411302

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 2304755

Due to a very large unknown peak present in 2304577-01 the sample had to be diluted.



Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/07/2023 10:55
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Case Narrative

Sample Receipt

COC Number:

Samples received refrigerated to 25 °C

Sample List

<u>Lab Number</u>	<u>Date/Time Sampled</u>	<u>Sample Name</u>
2304755-01	03/07/2023 14:35	SV-22-1
2304755-02	03/07/2023 14:32	SV-22-2

Requested Analysis

EPA-TO-15

<u>Sample</u>	<u>Analyte</u>	<u>Flag</u>
---------------	----------------	-------------

Sample Qualifier Summary

There are no qualifiers for the samples.

Holding Times

All holding time requirements were met.

Method Blanks

There were no detections in the Method Blank(s).

LCS

The LCS recoveries are within QC limits.

Discussion

AIR: CHAIN-OF-CUSTODY / A
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant information is contained herein.

2304755

Page: 1 of 1

Program: UST Superfund Emissions Clean Voluntary Clean Up Dry Clean RCRA

Location of Sampling by State: CA

Report Level: I, II, III, IV, Other

Method: TO-15 TO-14 TO-13 (PAH) TO-12 (Metals) TO-11 (Metals) TO-10 (Metals) TO-9 TO-8 (Metals) TO-7 (Metals) TO-6 (Metals) TO-5 (Metals) TO-4 (Metals) TO-3 (Metals) TO-2 (Metals) TO-1 (Metals)

Section A Required Client Information

Company: Roux
Address: 5150 E. Pacific Coast Hwy. Ste. 450
Long Beach, CA 90804
Email To: amcguire@rouxinc.com
Phone: 562-465-8624 Fax: [blank]
Requested Due Date (TAT): Standard

Section B Required Project Information

Report To: April McGuire
Copy To: [blank]
Purchase Order No.: [blank]
Project Name: City Terrace
Project Number: 2855

Section C Invoice Information

Attention: Roux Accounts Payable (rouxap@rouxinc.com)
Company Name: Roux
Address: 5150 E. Pacific Coast Hwy. Ste. 450 Long Beach, CA 90804
Pace Quote Reference: 09132481 & 00132633
Pace Project Manager/Sales Rep: Brianna Schulte / Dawn Gonor
Pace Profile #: [blank]

ITEM #	COLLECTED		RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDIT	
	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	Temp in °C	Received on
1	09/16/23	14:28	09/17/23	14:55	09/18/23	14:32	09/18/23	15:55	09/18/23	15:55		Y/N
2	09/16/23	14:27	09/17/23	14:32	09/18/23	14:32	09/18/23	16:30	09/18/23	16:46		Y/N
3												Y/N
4												Y/N
5												Y/N
6												Y/N
7												Y/N
8												Y/N
9												Y/N
10												Y/N
11												Y/N
12												Y/N

Section D Required Client Information

MCDA: [blank] TB: [blank]
 1.14m Surva Can: ILC
 6.14m Surva Can: ILC
 Low Volume PUF: LVP
 Other Volume PUF: 19910

MCDA CODE: [blank]
 TBI: [blank]
 1.14m Surva Can: ILC
 6.14m Surva Can: ILC
 Low Volume PUF: LVP
 Other Volume PUF: 19910

MCDA CODE: [blank]
 TBI: [blank]
 1.14m Surva Can: ILC
 6.14m Surva Can: ILC
 Low Volume PUF: LVP
 Other Volume PUF: 19910

Flow Control Number: [blank]

Summa Can Number: 10389, 12853, 5157, 1243

Canister Pressure (Initial Field - psig): -27, -4, -26, -5

Canister Pressure (Final Field - psig): [blank]

CHK BY: [Signature] DISTRIBUTION SUB-OUT

3/8/23 per April
run TO-15
NOT SIM-BLS

Comments:

3-7-23 1555
3-7-23 1630

3-7-23 1555
3-7-23 1630

3-7-23 1555
3-7-23 1630

SAMPLER NAME AND SIGNATURE: Connor Moore

DATE SAMPLE ANALYZED: 5/17/23

Sealed Cooler: Y/N

Received on: Y/N

Temp in °C: [blank]

FC046Rev 01, 03Feb2

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612-76386

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>	
Submission #: <u>23-04755</u>					
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COG? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Summa</u> Thermometer ID: _____ Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Date/Time <u>3-8-23</u> Analyst Init <u>SMH/046</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁴										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1661B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.1/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 5615M										
QT EPA 5270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	<u>1A</u>	<u>A</u>	<u>A</u>							

Comments: _____
 Sample Numbering Completed By: THZ Date/Time: 3-8-23 1545
 A = Actual / C = Corrected

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/07/2023 10:55
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304755-01	COC Number:	---	Receive Date:	03/08/2023 10:46
	Project Number:	---	Sampling Date:	03/07/2023 14:35
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-22-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2304755-02	COC Number:	---	Receive Date:	03/08/2023 10:46
	Project Number:	---	Sampling Date:	03/07/2023 14:32
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-22-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/07/2023 10:55
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304755-01		Client Sample Name: SV-22-1, 3/7/2023 2:35:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	6.4	0.86	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	6.4	0.90	EPA-TO-15	ND	A01	1
Benzene	1.5	ug/m3	6.4	0.67	EPA-TO-15	ND	J,A01	1
Benzyl chloride	ND	ug/m3	32	0.83	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	32	2.8	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	6.4	1.5	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	6.4	0.70	EPA-TO-15	ND	A01	1
Carbon disulfide	24	ug/m3	6.4	0.61	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	6.4	1.7	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	16	1.7	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	6.4	0.67	EPA-TO-15	ND	A01	1
Cyclohexane	2.6	ug/m3	6.4	1.2	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	16	1.9	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	16	1.6	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	16	0.99	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	16	1.6	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	3.2	ug/m3	16	1.4	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	16	0.74	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	16	0.83	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	16	0.99	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	6.4	1.0	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	6.4	0.86	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	16	1.0	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	16	0.96	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	16	2.9	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	16	6.4	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	6.4	1.1	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/07/2023 10:55
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304755-01		Client Sample Name: SV-22-1, 3/7/2023 2:35:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	6.0	ug/m3	6.4	1.3	EPA-TO-15	ND	J,A01	1
Ethyl acetate	ND	ug/m3	6.4	1.1	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3	16	1.0	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	16	0.96	EPA-TO-15	ND	A01	1
n-Heptane	ND	ug/m3	6.4	1.1	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	32	4.8	EPA-TO-15	ND	A01	1
Hexane	ND	ug/m3	16	0.64	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ug/m3	16	0.93	EPA-TO-15	ND	A01	1
Isopropyl alcohol	11	ug/m3	6.4	1.0	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	32	1.3	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	4.0	ug/m3	6.4	0.61	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	ND	ug/m3	16	0.83	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	6.4	0.90	EPA-TO-15	ND	A01	1
Propylene	36	ug/m3	6.4	0.80	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	16	0.77	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	16	1.5	EPA-TO-15	ND	A01	1
Tetrachloroethene	5.4	ug/m3	6.4	1.6	EPA-TO-15	ND	J,A01	1
Tetrahydrofuran	ND	ug/m3	6.4	0.86	EPA-TO-15	ND	A01	1
Toluene	ND	ug/m3	6.4	0.86	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	32	2.6	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	16	1.2	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	16	2.0	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	6.4	1.7	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	ND	ug/m3	16	1.5	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	16	1.8	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	6.4	1.1	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	6.4	1.2	EPA-TO-15	ND	A01	1
p- & m-Xylenes	3.6	ug/m3	16	2.0	EPA-TO-15	ND	J,A01	1
o-Xylene	1.5	ug/m3	16	0.96	EPA-TO-15	ND	J,A01	1
Total Xylenes	5.1	ug/m3	32	2.9	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	93.3	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/07/2023 10:55
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304755-01	Client Sample Name: SV-22-1, 3/7/2023 2:35:00PM, Client
----------------------------------	--

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	03/29/23 13:27	03/29/23 18:59	BEP	MS-A2	3.200	B162991 EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/07/2023 10:55
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304755-02		Client Sample Name: SV-22-2, 3/7/2023 2:32:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	24	ug/m3	8.0	0.69	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Benzene	0.61	ug/m3	3.2	0.34	EPA-TO-15	ND	J,A01	1
Benzyl chloride	ND	ug/m3	16	0.42	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.2	0.75	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.2	0.35	EPA-TO-15	ND	A01	1
Carbon disulfide	2.2	ug/m3	3.2	0.30	EPA-TO-15	ND	J,A01	1
Carbon tetrachloride	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.2	0.85	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	8.0	0.86	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	3.2	0.61	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	8.0	0.69	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.0	0.93	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.0	0.50	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.5	ug/m3	8.0	0.72	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.0	0.37	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.0	0.42	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.0	0.50	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.2	0.51	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.0	0.51	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.0	0.48	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.0	1.5	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.0	3.2	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/07/2023 10:55
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304755-02		Client Sample Name: SV-22-2, 3/7/2023 2:32:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	18	ug/m3	3.2	0.67	EPA-TO-15	ND	A01	1
Ethyl acetate	1.3	ug/m3	3.2	0.53	EPA-TO-15	ND	J,A01	1
Ethylbenzene	1.3	ug/m3	8.0	0.51	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	8.0	0.48	EPA-TO-15	ND	A01	1
n-Heptane	ND	ug/m3	3.2	0.54	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	1
Hexane	ND	ug/m3	8.0	0.32	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ug/m3	8.0	0.46	EPA-TO-15	ND	A01	1
Isopropyl alcohol	47	ug/m3	3.2	0.51	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.64	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	2.1	ug/m3	3.2	0.30	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	ND	ug/m3	8.0	0.42	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.2	0.40	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	8.0	0.38	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.0	0.75	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.2	0.80	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Toluene	8.1	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.0	0.62	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.0	0.98	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.2	0.86	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.3	ug/m3	8.0	0.75	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.0	0.88	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.1	ug/m3	8.0	0.64	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.2	0.62	EPA-TO-15	ND	A01	1
p- & m-Xylenes	3.5	ug/m3	8.0	0.98	EPA-TO-15	ND	J,A01	1
o-Xylene	1.3	ug/m3	8.0	0.48	EPA-TO-15	ND	J,A01	1
Total Xylenes	4.8	ug/m3	16	1.5	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	95.8	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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 Long Beach, CA 90804

Reported: 04/07/2023 10:55
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304755-02	Client Sample Name: SV-22-2, 3/7/2023 2:32:00PM, Client
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	03/10/23 13:27	03/11/23 00:48	BEP	MS-A1	1.600	B161661 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/07/2023 10:55
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161661							
Acetone	B161661-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B161661-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B161661-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B161661-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B161661-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B161661-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B161661-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B161661-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B161661-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B161661-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B161661-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B161661-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B161661-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B161661-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B161661-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B161661-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B161661-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B161661-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B161661-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B161661-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B161661-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B161661-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B161661-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B161661-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B161661-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B161661-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B161661-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B161661-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B161661-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B161661-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B161661-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B161661-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B161661-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B161661-BLK1	ND	ug/m3	2.0	0.42		1

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 Long Beach, CA 90804

Reported: 04/07/2023 10:55
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161661							
Ethyl acetate	B161661-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B161661-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B161661-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B161661-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B161661-BLK1	ND	ug/m3	10	1.5		1
Hexane	B161661-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B161661-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B161661-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B161661-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B161661-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B161661-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B161661-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B161661-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B161661-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B161661-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B161661-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B161661-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B161661-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B161661-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B161661-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B161661-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B161661-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B161661-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161661-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B161661-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B161661-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B161661-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B161661-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B161661-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B161661-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B161661-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B161661-BLK1	93.8	%	70 - 130 (LCL - UCL)			1
QC Batch ID: B162991							

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 Long Beach, CA 90804

Reported: 04/07/2023 10:55
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162991							
Acetone	B162991-BLK1	ND	ug/m3	5.0	0.43		2
Acrylonitrile	B162991-BLK1	ND	ug/m3	2.0	0.27		2
Allyl chloride	B162991-BLK1	ND	ug/m3	2.0	0.28		2
Benzene	B162991-BLK1	ND	ug/m3	2.0	0.21		2
Benzyl chloride	B162991-BLK1	ND	ug/m3	10	0.26		2
Bromodichloromethane	B162991-BLK1	ND	ug/m3	5.0	0.45		2
Bromoform	B162991-BLK1	ND	ug/m3	10	0.86		2
Bromomethane	B162991-BLK1	ND	ug/m3	2.0	0.47		2
1,3-Butadiene	B162991-BLK1	ND	ug/m3	2.0	0.22		2
Carbon disulfide	B162991-BLK1	ND	ug/m3	2.0	0.19		2
Carbon tetrachloride	B162991-BLK1	ND	ug/m3	5.0	0.45		2
Chlorobenzene	B162991-BLK1	ND	ug/m3	5.0	0.40		2
Chloroethane	B162991-BLK1	ND	ug/m3	2.0	0.53		2
Chloroform	B162991-BLK1	ND	ug/m3	5.0	0.54		2
Chloromethane	B162991-BLK1	ND	ug/m3	2.0	0.21		2
Cyclohexane	B162991-BLK1	ND	ug/m3	2.0	0.38		2
Dibromochloromethane	B162991-BLK1	ND	ug/m3	5.0	0.43		2
1,2-Dibromoethane	B162991-BLK1	ND	ug/m3	5.0	0.58		2
1,2-Dichlorobenzene	B162991-BLK1	ND	ug/m3	5.0	0.50		2
1,3-Dichlorobenzene	B162991-BLK1	ND	ug/m3	5.0	0.31		2
1,4-Dichlorobenzene	B162991-BLK1	ND	ug/m3	5.0	0.50		2
Dichlorodifluoromethane	B162991-BLK1	ND	ug/m3	5.0	0.45		2
1,1-Dichloroethane	B162991-BLK1	ND	ug/m3	5.0	0.23		2
1,2-Dichloroethane	B162991-BLK1	ND	ug/m3	5.0	0.26		2
1,1-Dichloroethene	B162991-BLK1	ND	ug/m3	5.0	0.31		2
cis-1,2-Dichloroethene	B162991-BLK1	ND	ug/m3	2.0	0.32		2
trans-1,2-Dichloroethene	B162991-BLK1	ND	ug/m3	2.0	0.27		2
1,2-Dichloropropane	B162991-BLK1	ND	ug/m3	5.0	0.32		2
cis-1,3-Dichloropropene	B162991-BLK1	ND	ug/m3	5.0	0.30		2
trans-1,3-Dichloropropene	B162991-BLK1	ND	ug/m3	5.0	0.40		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162991-BLK1	ND	ug/m3	5.0	0.91		2
1,1-Difluoroethane	B162991-BLK1	ND	ug/m3	5.0	2.0		2
1,4-Dioxane	B162991-BLK1	ND	ug/m3	2.0	0.33		2
Ethanol	B162991-BLK1	ND	ug/m3	2.0	0.42		2

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Reported: 04/07/2023 10:55
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162991							
Ethyl acetate	B162991-BLK1	ND	ug/m3	2.0	0.33		2
Ethylbenzene	B162991-BLK1	ND	ug/m3	5.0	0.32		2
1-Ethyl-4-methylbenzene	B162991-BLK1	ND	ug/m3	5.0	0.30		2
n-Heptane	B162991-BLK1	ND	ug/m3	2.0	0.34		2
Hexachlorobutadiene	B162991-BLK1	ND	ug/m3	10	1.5		2
Hexane	B162991-BLK1	ND	ug/m3	5.0	0.20		2
2-Hexanone	B162991-BLK1	ND	ug/m3	5.0	0.29		2
Isopropyl alcohol	B162991-BLK1	ND	ug/m3	2.0	0.32		2
Methylene chloride	B162991-BLK1	ND	ug/m3	10	0.40		2
Methyl ethyl ketone	B162991-BLK1	ND	ug/m3	2.0	0.19		2
Methyl isobutyl ketone	B162991-BLK1	ND	ug/m3	5.0	0.26		2
Methyl t-butyl ether	B162991-BLK1	ND	ug/m3	2.0	0.28		2
Propylene	B162991-BLK1	ND	ug/m3	2.0	0.25		2
Styrene	B162991-BLK1	ND	ug/m3	5.0	0.24		2
1,1,2,2-Tetrachloroethane	B162991-BLK1	ND	ug/m3	5.0	0.47		2
Tetrachloroethene	B162991-BLK1	ND	ug/m3	2.0	0.50		2
Tetrahydrofuran	B162991-BLK1	ND	ug/m3	2.0	0.27		2
Toluene	B162991-BLK1	ND	ug/m3	2.0	0.27		2
1,2,4-Trichlorobenzene	B162991-BLK1	ND	ug/m3	10	0.82		2
1,1,1-Trichloroethane	B162991-BLK1	ND	ug/m3	5.0	0.39		2
1,1,2-Trichloroethane	B162991-BLK1	ND	ug/m3	5.0	0.61		2
Trichloroethene	B162991-BLK1	ND	ug/m3	2.0	0.54		2
Trichlorofluoromethane	B162991-BLK1	ND	ug/m3	5.0	0.47		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B162991-BLK1	ND	ug/m3	5.0	0.55		2
1,2,4-Trimethylbenzene	B162991-BLK1	ND	ug/m3	5.0	0.40		2
1,3,5-Trimethylbenzene	B162991-BLK1	ND	ug/m3	5.0	0.40		2
Vinyl acetate	B162991-BLK1	ND	ug/m3	2.0	0.33		2
Vinyl chloride	B162991-BLK1	ND	ug/m3	2.0	0.39		2
p- & m-Xylenes	B162991-BLK1	ND	ug/m3	5.0	0.61		2
o-Xylene	B162991-BLK1	ND	ug/m3	5.0	0.30		2
Total Xylenes	B162991-BLK1	ND	ug/m3	10	0.91		2
4-Bromofluorobenzene (Surrogate)	B162991-BLK1	91.7	%	70 - 130 (LCL - UCL)			2

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/07/2023 10:55
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161661-BLK1	PB	EPA-TO-15	03/10/23	03/10/23 15:37	BEP	MS-A1	1
2	B162991-BLK1	PB	EPA-TO-15	03/29/23	03/29/23 18:20	BEP	MS-A2	1

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 Long Beach, CA 90804

Reported: 04/07/2023 10:55
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161661											
Benzene	B161661-BS1	LCS	15.175	15.974	ug/m3	95.0		70 - 130			1
	B161661-BSD1	LCSD	14.313	15.974	ug/m3	89.6	5.9	70 - 130	30		2
Chloroform	B161661-BS1	LCS	23.387	24.413	ug/m3	95.8		70 - 130			1
	B161661-BSD1	LCSD	21.825	24.413	ug/m3	89.4	6.9	70 - 130	30		2
Ethylbenzene	B161661-BS1	LCS	20.451	21.711	ug/m3	94.2		70 - 130			1
	B161661-BSD1	LCSD	19.713	21.711	ug/m3	90.8	3.7	70 - 130	30		2
Tetrachloroethene	B161661-BS1	LCS	31.403	33.913	ug/m3	92.6		70 - 130			1
	B161661-BSD1	LCSD	29.165	33.913	ug/m3	86.0	7.4	70 - 130	30		2
Toluene	B161661-BS1	LCS	18.428	18.842	ug/m3	97.8		70 - 130			1
	B161661-BSD1	LCSD	17.523	18.842	ug/m3	93.0	5.0	70 - 130	30		2
Trichloroethene	B161661-BS1	LCS	24.719	26.869	ug/m3	92.0		70 - 130			1
	B161661-BSD1	LCSD	23.376	26.869	ug/m3	87.0	5.6	70 - 130	30		2
Trichlorofluoromethane	B161661-BS1	LCS	26.743	28.092	ug/m3	95.2		70 - 130			1
	B161661-BSD1	LCSD	26.743	28.092	ug/m3	95.2	0	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B161661-BS1	LCS	35.866	38.318	ug/m3	93.6		70 - 130			1
	B161661-BSD1	LCSD	33.643	38.318	ug/m3	87.8	6.4	70 - 130	30		2
p- & m-Xylenes	B161661-BS1	LCS	41.902	43.421	ug/m3	96.5		70 - 130			1
	B161661-BSD1	LCSD	39.774	43.421	ug/m3	91.6	5.2	70 - 130	30		2
o-Xylene	B161661-BS1	LCS	20.929	21.711	ug/m3	96.4		70 - 130			1
	B161661-BSD1	LCSD	20.234	21.711	ug/m3	93.2	3.4	70 - 130	30		2
Total Xylenes	B161661-BS1	LCS	62.831	65.132	ug/m3	96.5		70 - 130			1
	B161661-BSD1	LCSD	60.008	65.132	ug/m3	92.1	4.6	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161661-BS1	LCS	72.1	71.6	ug/m3	101		70 - 130			1
	B161661-BSD1	LCSD	72.4	71.6	ug/m3	101	0.3	70 - 130			2
QC Batch ID: B162991											
Benzene	B162991-BS1	LCS	14.664	15.974	ug/m3	91.8		70 - 130			3
	B162991-BSD1	LCSD	14.728	15.974	ug/m3	92.2	0.4	70 - 130	30		4
Chloroform	B162991-BS1	LCS	22.362	24.413	ug/m3	91.6		70 - 130			3
	B162991-BSD1	LCSD	22.362	24.413	ug/m3	91.6	0	70 - 130	30		4
Ethylbenzene	B162991-BS1	LCS	21.624	21.711	ug/m3	99.6		70 - 130			3
	B162991-BSD1	LCSD	22.015	21.711	ug/m3	101	1.8	70 - 130	30		4
Tetrachloroethene	B162991-BS1	LCS	32.827	33.913	ug/m3	96.8		70 - 130			3
	B162991-BSD1	LCSD	33.234	33.913	ug/m3	98.0	1.2	70 - 130	30		4
Toluene	B162991-BS1	LCS	18.578	18.842	ug/m3	98.6		70 - 130			3
	B162991-BSD1	LCSD	18.654	18.842	ug/m3	99.0	0.4	70 - 130	30		4
Trichloroethene	B162991-BS1	LCS	26.224	26.869	ug/m3	97.6		70 - 130			3
	B162991-BSD1	LCSD	26.385	26.869	ug/m3	98.2	0.6	70 - 130	30		4

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/07/2023 10:55
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162991											
Trichlorofluoromethane	B162991-BS1	LCS	26.181	28.092	ug/m3	93.2		70 - 130			3
	B162991-BSD1	LCSD	26.181	28.092	ug/m3	93.2	0	70 - 130	30		4
1,1,2-Trichloro-1,2,2-trifluoroethane	B162991-BS1	LCS	35.559	38.318	ug/m3	92.8		70 - 130			3
	B162991-BSD1	LCSD	35.559	38.318	ug/m3	92.8	0	70 - 130	30		4
p- & m-Xylenes	B162991-BS1	LCS	45.549	43.421	ug/m3	105		70 - 130			3
	B162991-BSD1	LCSD	45.983	43.421	ug/m3	106	0.9	70 - 130	30		4
o-Xylene	B162991-BS1	LCS	22.449	21.711	ug/m3	103		70 - 130			3
	B162991-BSD1	LCSD	22.796	21.711	ug/m3	105	1.5	70 - 130	30		4
Total Xylenes	B162991-BS1	LCS	67.998	65.132	ug/m3	104		70 - 130			3
	B162991-BSD1	LCSD	68.779	65.132	ug/m3	106	1.1	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B162991-BS1	LCS	69.1	71.6	ug/m3	96.5		70 - 130			3
	B162991-BSD1	LCSD	69.1	71.6	ug/m3	96.5	0	70 - 130			4

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B161661-BS1	LCS	EPA-TO-15	03/10/23	03/10/23	14:37	BEP	MS-A1	1
2	B161661-BSD1	LCSD	EPA-TO-15	03/10/23	03/10/23	15:10	BEP	MS-A1	1
3	B162991-BS1	LCS	EPA-TO-15	03/29/23	03/29/23	17:06	BEP	MS-A2	1
4	B162991-BSD1	LCSD	EPA-TO-15	03/29/23	03/29/23	17:45	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/07/2023 10:55
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

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



Date of Report: 04/03/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304756
Invoice ID: B471458, B472097, B472851

Enclosed are the results of analyses for samples received by the laboratory on 3/8/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001408947

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / Analytical
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be cor
2304756



Section A Required Client Information: Company: <u>Roux</u> Address: <u>5150 E. Pacific Coast Hwy, Ste. 450</u> Long Beach, CA 90804 Email To: <u>amcguire@rouxinc.com</u> Phone: <u>562-446-8824</u> Fax: _____ Requested Due Date/TAT: <u>Standard</u>		Section B Required Project Information: Report To: <u>April McGuire</u> Copy To: _____ Purchase Order No.: _____ Project Name: <u>City Terrace</u> Project Number: <u>2855</u>		Section C Invoice Information: Attention: <u>Roux Accounts Payable (rouxap@rouxinc.com)</u> Company Name: <u>Roux</u> Address: <u>5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804</u> Pace Quote Reference: <u>00132481 & 00132633</u> Pace Project Manager/Sales Rep: <u>Brian Schulte / Dawn Grout</u> Pace Profile #: _____		Page: 1 of 1																			
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE IA-22-1 IA-22-2 AA-22-1		MEDIA CODE: _____ PID Reading (Client only): _____ *Section D Required Client Information CODE: _____ TID: _____ TID: _____ Low Volume (VOC) _____ High Volume (VOC) _____ Other: _____		COLLECTED <table border="1"> <thead> <tr> <th>DATE</th> <th>TIME</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td>3/6/23</td> <td>1425</td> <td>3/23</td> <td>1248</td> </tr> <tr> <td></td> <td>1426</td> <td></td> <td>1247</td> </tr> <tr> <td></td> <td>1405</td> <td></td> <td>1250</td> </tr> </tbody> </table>		DATE	TIME	DATE	TIME	3/6/23	1425	3/23	1248		1426		1247		1405		1250	Method: TO-15 (SMA) _____ TO-15 _____ TO-14 _____ TO-13 (PM10) _____ TO-13 (PM2.5) _____ TO-13 (Metane) _____ TO-8 _____ TO-3 (Fixed Gas %) _____ PM10 _____ Pace Lab ID: _____		Program: <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other Location of Sampling by State: <u>CA</u> Report Level: <u>II</u> , <u>III</u> , <u>IV</u> , Other: _____	
DATE	TIME	DATE	TIME																						
3/6/23	1425	3/23	1248																						
	1426		1247																						
	1405		1250																						
Summa Can Number: <u>805B13682</u> Canister Pressure (Initial Field - psig): <u>-30 -6</u> Canister Pressure (Final Field - psig): <u>-30 -5</u> Flow Control Number: <u>057406023</u> <u>076106021</u>		RELINQUISHED BY / AFFILIATION: <u>Quincy Box</u> DATE: <u>3/23/23</u> TIME: <u>1555</u> ACCEPTED BY / AFFILIATION: <u>Janice Moore</u> DATE: <u>3/23/23</u> TIME: <u>1630</u>		SAMPLE CONDITIONS: Recieved on: <u>Y/N</u> <u>Y/N</u> <u>Y/N</u> <u>Y/N</u> Sealed Cooler: <u>Y/N</u> <u>Y/N</u> <u>Y/N</u> <u>Y/N</u> Samples Intact: <u>Y/N</u> <u>Y/N</u> <u>Y/N</u> <u>Y/N</u> Temp in C: _____		COMMENTS: CHK BY: <u>JOB</u> DISTRIBUTION: <u>AIR</u> SUB-OUT: _____																			
SIGNATURE OF SUBMITTER: <u>Janice Moore</u> DATE: <u>3/23/23</u>		SIGNATURE OF ANALYST: _____ DATE: _____		SIGNATURE OF PACELABS: _____ DATE: _____		SIGNATURE OF PACELABS: _____ DATE: _____																			

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u> </u> Of <u> </u>									
Submission #: <u>23-04756</u>													
SHIPPING INFORMATION			SHIPPING CONTAINER		FREE LIQUID								
Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/>			Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/>		YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>								
Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			Other <input type="checkbox"/> (Specify) _____		W / S								
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____													
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____													
Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>		Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>									
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Subma</u> Thermometer ID: _____		Date/Time <u>3-8-23</u>									
		Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Analyst Init <u>SMH1046</u>									
SAMPLE CONTAINERS			SAMPLE NUMBERS										
			1	2	3	4	5	6	7	8	9	10	
QT PE UNPRES													
4oz / 8oz / 16oz PE UNPRES													
2oz Cr ⁴													
QT INORGANIC CHEMICAL METALS													
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz													
PT CYANIDE													
PT NITROGEN FORMS													
PT TOTAL SULFIDE													
2oz NITRATE / NITRITE													
PT TOTAL ORGANIC CARBON													
PT CHEMICAL OXYGEN DEMAND													
PA PHENOLICS													
40ml VOA VIAL TRAVEL BLANK													
40ml VOA VIAL													
QT EPA 1661B													
PT ODOR													
RADIOLOGICAL													
BACTERIOLOGICAL													
40 ml VOA VIAL- 514													
QT EPA 508/608.3M0F1A													
QT EPA 515.1/5151A													
QT EPA 525.2													
QT EPA 525.2 TRAVEL BLANK													
40ml EPA 547													
40ml EPA 531.1													
Box EPA 548.1													
QT EPA 549.2													
QT EPA 8015M1													
QT EPA 8270C													
8oz / 16oz / 32oz AMBER													
8oz / 16oz / 32oz JAR													
SOIL SLEEVE													
PCB VIAL													
PLASTIC BAG													
TEDLAR BAG													
FERROUS IRON													
ENCORE													
SMART KIT													
SUBIMA CANISTER	<u>6L</u>	<u>A</u>	<u>A</u>	<u>A</u>									

Comments: _____
 Sample Numbering Completed By: THZ Date/Time: 3-8-23 1545
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:17
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304756-01	COC Number:	---	Receive Date:	03/08/2023 10:46
	Project Number:	---	Sampling Date:	03/07/2023 12:48
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-22-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			
2304756-02	COC Number:	---	Receive Date:	03/08/2023 10:46
	Project Number:	---	Sampling Date:	03/07/2023 12:47
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-22-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			
2304756-03	COC Number:	---	Receive Date:	03/08/2023 10:46
	Project Number:	---	Sampling Date:	03/07/2023 12:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AA-22-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:17
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304756-01		Client Sample Name: IA-22-1, 3/7/2023 12:48:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	17	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	6.8	ug/m3	20	0.15	EPA-TO-15-SIM	ND	J,A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.67	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.65	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	V11	1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.4	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:17
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304756-01		Client Sample Name: IA-22-1, 3/7/2023 12:48:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	3.3	ug/m3	5.0	2.0	EPA-TO-15	ND	J	1
1,1-Difluoroethane	2.7	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	180	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	3.4	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.27	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	4.9	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.2	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:17
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304756-01		Client Sample Name: IA-22-1, 3/7/2023 12:48:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	1.5	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.5	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	0.49	ug/m3	5.0	0.40	EPA-TO-15	ND	J	1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	0.70	ug/m3	2.0	0.33	EPA-TO-15	ND	J	1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	0.78	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	0.94	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.34	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1
Total Xylenes	1.3	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	97.9	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	91.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	107	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:17
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304756-01		Client Sample Name: IA-22-1, 3/7/2023 12:48:00PM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/20/23 08:01	03/20/23 23:43	BEP	MS-A2	1	B162268	EPA TO-15	
2	EPA-TO-15-SIM	03/09/23 11:50	03/10/23 01:00	BEP	MS-A2	20	B161559	EPA TO-15	
3	EPA-TO-15-SIM	03/09/23 11:50	03/09/23 22:19	BEP	MS-A2	1	B161559	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:17
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304756-01	Client Sample Name: IA-22-1, 3/7/2023 12:48:00PM, Client
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	35	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/22/23 08:47	03/22/23 12:15	RMK	GC-A1	1	B162418	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:17
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304756-02		Client Sample Name: IA-22-2, 3/7/2023 12:47:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	17	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	7.1	ug/m3	20	0.15	EPA-TO-15-SIM	ND	J,A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.67	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.61	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	V11	1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.4	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:17
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304756-02		Client Sample Name: IA-22-2, 3/7/2023 12:47:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	2.1	ug/m3	5.0	2.0	EPA-TO-15	ND	J	1
1,1-Difluoroethane	1.7	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	170	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	4.8	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.30	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	5.4	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.2	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:17
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304756-02		Client Sample Name: IA-22-2, 3/7/2023 12:47:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	1.5	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.5	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	0.87	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.0	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.36	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1
Total Xylenes	1.4	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	99.0	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	92.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	105	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:17
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304756-02		Client Sample Name: IA-22-2, 3/7/2023 12:47:00PM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/20/23 08:01	03/21/23 00:29	BEP	MS-A2	1	B162268	EPA TO-15	
2	EPA-TO-15-SIM	03/09/23 11:50	03/10/23 01:37	BEP	MS-A2	20	B161559	EPA TO-15	
3	EPA-TO-15-SIM	03/09/23 11:50	03/09/23 23:02	BEP	MS-A2	1	B161559	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:17
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304756-02	Client Sample Name: IA-22-2, 3/7/2023 12:47:00PM, Client
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.6	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/22/23 08:47	03/22/23 12:36	RMK	GC-A1	1	B162418	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:17
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304756-03		Client Sample Name: AA-22-1, 3/7/2023 12:50:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	2.7	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND		1
Acetone	6.3	ug/m3	5.0	0.43	EPA-TO-15	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		2
Benzene	0.58	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzene	0.61	ug/m3	2.0	0.21	EPA-TO-15	ND	J	2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		2
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		2
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	V11	2
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		2
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		2
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		2
Chloromethane	1.2	ug/m3	2.0	0.21	EPA-TO-15	ND	J	2
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		2
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		2
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:17
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304756-03		Client Sample Name: AA-22-1, 3/7/2023 12:50:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		2
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		2
1,1-Difluoroethane	0.29	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Ethanol	6.8	ug/m3	2.0	0.42	EPA-TO-15	ND		2
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Ethylbenzene	0.21	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		2
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		2
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		2
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		2
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		2
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		2
Isopropyl alcohol	2.6	ug/m3	2.0	0.32	EPA-TO-15	ND		2
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		2
Methyl ethyl ketone	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		2
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		2
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
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Reported: 04/03/2023 13:17
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304756-03		Client Sample Name: AA-22-1, 3/7/2023 12:50:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	2
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		2
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		2
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		2
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
Toluene	0.94	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
Toluene	0.94	ug/m3	2.0	0.27	EPA-TO-15	ND	J	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		2
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		2
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		2
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		2
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		2
p- & m-Xylenes	0.76	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.61	ug/m3	5.0	0.61	EPA-TO-15	ND	J	2
o-Xylene	0.27	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		2
Total Xylenes	1.0	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		2
4-Bromofluorobenzene (Surrogate)	105	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	97.9	%	70 - 130 (LCL - UCL)		EPA-TO-15			2

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 Long Beach, CA 90804

Reported: 04/03/2023 13:17
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304756-03	Client Sample Name: AA-22-1, 3/7/2023 12:50:00PM, Client								
DCN	Method	Prep Date	Run Date/Time		Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-TO-15-SIM	03/09/23 11:50	03/09/23	23:45	BEP	MS-A2	1	B161559	EPA TO-15
2	EPA-TO-15	03/20/23 08:01	03/21/23	01:14	BEP	MS-A2	1	B162268	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:17
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304756-03	Client Sample Name: AA-22-1, 3/7/2023 12:50:00PM, Client
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	3.6	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/22/23 08:47	03/22/23 12:56	RMK	GC-A1	1	B162418	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 13:17
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161559							
Acetone	B161559-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B161559-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B161559-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B161559-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B161559-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B161559-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B161559-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B161559-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B161559-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B161559-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B161559-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B161559-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B161559-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B161559-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B161559-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B161559-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B161559-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B161559-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B161559-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B161559-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B161559-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B161559-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B161559-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B161559-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B161559-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B161559-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161559-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B161559-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B161559-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B161559-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B161559-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B161559-BLK1	101	%	50 - 150 (LCL - UCL)			1

QC Batch ID: B162268

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 Long Beach, CA 90804

Reported: 04/03/2023 13:17
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162268							
Acetone	B162268-BLK1	ND	ug/m3	5.0	0.43		2
Acrylonitrile	B162268-BLK1	ND	ug/m3	2.0	0.27		2
Allyl chloride	B162268-BLK1	ND	ug/m3	2.0	0.28		2
Benzene	B162268-BLK1	ND	ug/m3	2.0	0.21		2
Benzyl chloride	B162268-BLK1	ND	ug/m3	10	0.26		2
Bromodichloromethane	B162268-BLK1	ND	ug/m3	5.0	0.45		2
Bromoform	B162268-BLK1	ND	ug/m3	10	0.86		2
Bromomethane	B162268-BLK1	ND	ug/m3	2.0	0.47		2
1,3-Butadiene	B162268-BLK1	ND	ug/m3	2.0	0.22		2
Carbon disulfide	B162268-BLK1	ND	ug/m3	2.0	0.19		2
Carbon tetrachloride	B162268-BLK1	ND	ug/m3	5.0	0.45		2
Chlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.40		2
Chloroethane	B162268-BLK1	ND	ug/m3	2.0	0.53		2
Chloroform	B162268-BLK1	ND	ug/m3	5.0	0.54		2
Chloromethane	B162268-BLK1	ND	ug/m3	2.0	0.21		2
Cyclohexane	B162268-BLK1	ND	ug/m3	2.0	0.38		2
Dibromochloromethane	B162268-BLK1	ND	ug/m3	5.0	0.43		2
1,2-Dibromoethane	B162268-BLK1	ND	ug/m3	5.0	0.58		2
1,2-Dichlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.50		2
1,3-Dichlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.31		2
1,4-Dichlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.50		2
Dichlorodifluoromethane	B162268-BLK1	ND	ug/m3	5.0	0.45		2
1,1-Dichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.23		2
1,2-Dichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.26		2
1,1-Dichloroethene	B162268-BLK1	ND	ug/m3	5.0	0.31		2
cis-1,2-Dichloroethene	B162268-BLK1	ND	ug/m3	2.0	0.32		2
trans-1,2-Dichloroethene	B162268-BLK1	ND	ug/m3	2.0	0.27		2
1,2-Dichloropropane	B162268-BLK1	ND	ug/m3	5.0	0.32		2
cis-1,3-Dichloropropene	B162268-BLK1	ND	ug/m3	5.0	0.30		2
trans-1,3-Dichloropropene	B162268-BLK1	ND	ug/m3	5.0	0.40		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162268-BLK1	ND	ug/m3	5.0	0.91		2
1,1-Difluoroethane	B162268-BLK1	ND	ug/m3	5.0	2.0		2
1,4-Dioxane	B162268-BLK1	ND	ug/m3	2.0	0.33		2
Ethanol	B162268-BLK1	ND	ug/m3	2.0	0.42		2

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 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162268							
Ethyl acetate	B162268-BLK1	ND	ug/m3	2.0	0.33		2
Ethylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.32		2
1-Ethyl-4-methylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.30		2
n-Heptane	B162268-BLK1	ND	ug/m3	2.0	0.34		2
Hexachlorobutadiene	B162268-BLK1	ND	ug/m3	10	1.5		2
Hexane	B162268-BLK1	ND	ug/m3	5.0	0.20		2
2-Hexanone	B162268-BLK1	ND	ug/m3	5.0	0.29		2
Isopropyl alcohol	B162268-BLK1	ND	ug/m3	2.0	0.32		2
Methylene chloride	B162268-BLK1	ND	ug/m3	10	0.40		2
Methyl ethyl ketone	B162268-BLK1	ND	ug/m3	2.0	0.19		2
Methyl isobutyl ketone	B162268-BLK1	ND	ug/m3	5.0	0.26		2
Methyl t-butyl ether	B162268-BLK1	ND	ug/m3	2.0	0.28		2
Propylene	B162268-BLK1	ND	ug/m3	2.0	0.25	C01	2
Styrene	B162268-BLK1	ND	ug/m3	5.0	0.24		2
1,1,2,2-Tetrachloroethane	B162268-BLK1	ND	ug/m3	5.0	0.47		2
Tetrachloroethene	B162268-BLK1	ND	ug/m3	2.0	0.50		2
Tetrahydrofuran	B162268-BLK1	ND	ug/m3	2.0	0.27		2
Toluene	B162268-BLK1	ND	ug/m3	2.0	0.27		2
1,2,4-Trichlorobenzene	B162268-BLK1	ND	ug/m3	10	0.82		2
1,1,1-Trichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.39		2
1,1,2-Trichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.61		2
Trichloroethene	B162268-BLK1	ND	ug/m3	2.0	0.54		2
Trichlorofluoromethane	B162268-BLK1	ND	ug/m3	5.0	0.47		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B162268-BLK1	ND	ug/m3	5.0	0.55		2
1,2,4-Trimethylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.40		2
1,3,5-Trimethylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.40		2
Vinyl acetate	B162268-BLK1	ND	ug/m3	2.0	0.33		2
Vinyl chloride	B162268-BLK1	ND	ug/m3	2.0	0.39		2
p- & m-Xylenes	B162268-BLK1	ND	ug/m3	5.0	0.61		2
o-Xylene	B162268-BLK1	ND	ug/m3	5.0	0.30		2
Total Xylenes	B162268-BLK1	ND	ug/m3	10	0.91		2
4-Bromofluorobenzene (Surrogate)	B162268-BLK1	97.1	%	70 - 130 (LCL - UCL)			2

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:17
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161559-BLK1	PB	EPA-TO-15-SIM	03/09/23	03/09/23 17:37	BEP	MS-A2	1
2	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:17
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161559											
Benzene	B161559-BS1	LCS	0.29159	0.31948	ug/m3	91.3		70 - 130			1
	B161559-BSD1	LCSD	0.29136	0.31948	ug/m3	91.2	0.1	70 - 130	30		2
Benzyl chloride	B161559-BS1	LCS	0.49706	0.51772	ug/m3	96.0		70 - 130		J	1
	B161559-BSD1	LCSD	0.47579	0.51772	ug/m3	91.9	4.4	70 - 130	30	J	2
Carbon tetrachloride	B161559-BS1	LCS	0.62454	0.62913	ug/m3	99.3		70 - 130			1
	B161559-BSD1	LCSD	0.62838	0.62913	ug/m3	99.9	0.6	70 - 130	30		2
Chlorobenzene	B161559-BS1	LCS	0.45147	0.46036	ug/m3	98.1		70 - 130			1
	B161559-BSD1	LCSD	0.44829	0.46036	ug/m3	97.4	0.7	70 - 130	30		2
Chloroform	B161559-BS1	LCS	0.48137	0.48825	ug/m3	98.6		70 - 130			1
	B161559-BSD1	LCSD	0.48196	0.48825	ug/m3	98.7	0.1	70 - 130	30		2
1,2-Dibromoethane	B161559-BS1	LCS	0.76635	0.76835	ug/m3	99.7		70 - 130			1
	B161559-BSD1	LCSD	0.76251	0.76835	ug/m3	99.2	0.5	70 - 130	30		2
1,2-Dichlorobenzene	B161559-BS1	LCS	0.60033	0.60124	ug/m3	99.8		70 - 130			1
	B161559-BSD1	LCSD	0.60881	0.60124	ug/m3	101	1.4	70 - 130	30		2
1,3-Dichlorobenzene	B161559-BS1	LCS	0.59733	0.60124	ug/m3	99.4		70 - 130			1
	B161559-BSD1	LCSD	0.61548	0.60124	ug/m3	102	3.0	70 - 130	30		2
1,4-Dichlorobenzene	B161559-BS1	LCS	0.60983	0.60124	ug/m3	101		70 - 130			1
	B161559-BSD1	LCSD	0.60087	0.60124	ug/m3	99.9	1.5	70 - 130	30		2
1,1-Dichloroethane	B161559-BS1	LCS	0.38539	0.40474	ug/m3	95.2		70 - 130			1
	B161559-BSD1	LCSD	0.38276	0.40474	ug/m3	94.6	0.7	70 - 130	30		2
1,2-Dichloroethane	B161559-BS1	LCS	0.39701	0.40474	ug/m3	98.1		70 - 130			1
	B161559-BSD1	LCSD	0.39462	0.40474	ug/m3	97.5	0.6	70 - 130	30		2
1,1-Dichloroethene	B161559-BS1	LCS	0.37128	0.39649	ug/m3	93.6		70 - 130			1
	B161559-BSD1	LCSD	0.36811	0.39649	ug/m3	92.8	0.9	70 - 130	30		2
cis-1,2-Dichloroethene	B161559-BS1	LCS	0.37274	0.39649	ug/m3	94.0		70 - 130			1
	B161559-BSD1	LCSD	0.37100	0.39649	ug/m3	93.6	0.5	70 - 130	30		2
Methylene chloride	B161559-BS1	LCS	0.36092	0.34737	ug/m3	104		70 - 130			1
	B161559-BSD1	LCSD	0.36026	0.34737	ug/m3	104	0.2	70 - 130	30		2
Tetrachloroethene	B161559-BS1	LCS	0.66374	0.67825	ug/m3	97.9		70 - 130			1
	B161559-BSD1	LCSD	0.65818	0.67825	ug/m3	97.0	0.8	70 - 130	30		2
Toluene	B161559-BS1	LCS	0.34496	0.37684	ug/m3	91.5		70 - 130			1
	B161559-BSD1	LCSD	0.34300	0.37684	ug/m3	91.0	0.6	70 - 130	30		2
1,1,1-Trichloroethane	B161559-BS1	LCS	0.54185	0.54562	ug/m3	99.3		70 - 130			1
	B161559-BSD1	LCSD	0.53935	0.54562	ug/m3	98.8	0.5	70 - 130	30		2
1,1,2-Trichloroethane	B161559-BS1	LCS	0.53847	0.54562	ug/m3	98.7		70 - 130			1
	B161559-BSD1	LCSD	0.53749	0.54562	ug/m3	98.5	0.2	70 - 130	30		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:17
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161559											
Trichloroethene	B161559-BS1	LCS	0.51626	0.53737	ug/m3	96.1		70 - 130			1
	B161559-BSD1	LCSD	0.51411	0.53737	ug/m3	95.7	0.4	70 - 130	30		2
Vinyl chloride	B161559-BS1	LCS	0.26479	0.25562	ug/m3	104		70 - 130			1
	B161559-BSD1	LCSD	0.27180	0.25562	ug/m3	106	2.6	70 - 130	30		2
p- & m-Xylenes	B161559-BS1	LCS	0.83391	0.86843	ug/m3	96.0		70 - 130			1
	B161559-BSD1	LCSD	0.83156	0.86843	ug/m3	95.8	0.3	70 - 130	30		2
o-Xylene	B161559-BS1	LCS	0.40690	0.43421	ug/m3	93.7		70 - 130			1
	B161559-BSD1	LCSD	0.40421	0.43421	ug/m3	93.1	0.7	70 - 130	30		2
Total Xylenes	B161559-BS1	LCS	1.2408	1.3026	ug/m3	95.3		70 - 130			1
	B161559-BSD1	LCSD	1.2358	1.3026	ug/m3	94.9	0.4	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161559-BS1	LCS	3.83	3.58	ug/m3	107		50 - 150			1
	B161559-BSD1	LCSD	3.82	3.58	ug/m3	107	0.2	50 - 150			2
QC Batch ID: B162268											
Benzene	B162268-BS1	LCS	15.590	15.974	ug/m3	97.6		70 - 130			3
	B162268-BSD1	LCSD	15.718	15.974	ug/m3	98.4	0.8	70 - 130	30		4
Chloroform	B162268-BS1	LCS	23.436	24.413	ug/m3	96.0		70 - 130			3
	B162268-BSD1	LCSD	23.631	24.413	ug/m3	96.8	0.8	70 - 130	30		4
Ethylbenzene	B162268-BS1	LCS	20.712	21.711	ug/m3	95.4		70 - 130			3
	B162268-BSD1	LCSD	21.146	21.711	ug/m3	97.4	2.1	70 - 130	30		4
Tetrachloroethene	B162268-BS1	LCS	33.641	33.913	ug/m3	99.2		70 - 130			3
	B162268-BSD1	LCSD	34.184	33.913	ug/m3	101	1.6	70 - 130	30		4
Toluene	B162268-BS1	LCS	18.805	18.842	ug/m3	99.8		70 - 130			3
	B162268-BSD1	LCSD	19.219	18.842	ug/m3	102	2.2	70 - 130	30		4
Trichloroethene	B162268-BS1	LCS	26.815	26.869	ug/m3	99.8		70 - 130			3
	B162268-BSD1	LCSD	27.406	26.869	ug/m3	102	2.2	70 - 130	30		4
Trichlorofluoromethane	B162268-BS1	LCS	27.137	28.092	ug/m3	96.6		70 - 130			3
	B162268-BSD1	LCSD	27.249	28.092	ug/m3	97.0	0.4	70 - 130	30		4
1,1,2-Trichloro-1,2,2-trifluoroethane	B162268-BS1	LCS	37.015	38.318	ug/m3	96.6		70 - 130			3
	B162268-BSD1	LCSD	37.322	38.318	ug/m3	97.4	0.8	70 - 130	30		4
p- & m-Xylenes	B162268-BS1	LCS	43.378	43.421	ug/m3	99.9		70 - 130			3
	B162268-BSD1	LCSD	44.680	43.421	ug/m3	103	3.0	70 - 130	30		4
o-Xylene	B162268-BS1	LCS	21.190	21.711	ug/m3	97.6		70 - 130			3
	B162268-BSD1	LCSD	22.058	21.711	ug/m3	102	4.0	70 - 130	30		4
Total Xylenes	B162268-BS1	LCS	64.567	65.132	ug/m3	99.1		70 - 130			3
	B162268-BSD1	LCSD	66.738	65.132	ug/m3	102	3.3	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B162268-BS1	LCS	72.7	71.6	ug/m3	102		70 - 130			3
	B162268-BSD1	LCSD	73.9	71.6	ug/m3	103	1.7	70 - 130			4

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:17
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161559-BS1	LCS	EPA-TO-15-SIM	03/09/23	03/09/23 16:23	BEP	MS-A2	1
2	B161559-BSD1	LCSD	EPA-TO-15-SIM	03/09/23	03/09/23 17:02	BEP	MS-A2	1
3	B162268-BS1	LCS	EPA-TO-15	03/20/23	03/20/23 13:31	BEP	MS-A2	1
4	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23 14:14	BEP	MS-A2	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:17
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162418							
Methane (CH4)	B162418-BLK1	ND	ppmv	2.0	1.8		1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162418-BLK1	PB	ASTM-D1946	03/22/23	03/22/23 11:55	RMK	GC-A1	1

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 Long Beach, CA 90804

Reported: 04/03/2023 13:17
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162418											
Methane (CH4)	B162418-BS1	LCS	18710	18000	ppmv	104		70 - 130			1
	B162418-BSD1	LCSD	18732	18000	ppmv	104	0.1	70 - 130	30		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162418-BS1	LCS	ASTM-D1946	03/22/23	03/22/23	11:14	RMK	GC-A1	1
2	B162418-BSD1	LCSD	ASTM-D1946	03/22/23	03/22/23	11:34	RMK	GC-A1	1

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Long Beach, CA 90804

Reported: 04/03/2023 13:17
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- C01 The calibration curve did not contain the minimum number of standards.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Date of Report: 04/10/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2306913
Invoice ID: B473283

Enclosed are the results of analyses for samples received by the laboratory on 4/6/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Quality Control Reports

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

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2306913

AIR: CHAIN-OF-CUSTODY / Analytical
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

RUSI
23-06913



Section A Required Client Information: Company: Rous Address: 5150 E. Pacific Coast Hwy, Ste. 450 Long Beach, CA 90804 Email To: amcquire@rousc.com Phone: 562-446-8624 Fax: 562-446-8623 Requested Date/Time: 04/23/2013 08:37		Section B Required Project Information: Report To: April McCune Copy To: Purchase Order No.: Project Name: City Terrace Project Number: 2855		Section C Invoice Information: Attention: Rous Accounts Payable (rousc@rousc.com) Company Name: Rous Address: 5150 E. Pacific Coast Hwy, Ste. 450 Long Beach, CA 90804 P.O. Quote Reference: 00132481 & 00132633 P.O. Project Manager/Sales Rep: Branna Schatz / Dawn Gorrer P.O. Profile #:		Page: 1 of 1	
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE 511-22-1-R		Report Level: I, II, III, IV, Other:		Program: <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other:		Location of Sampling by State: CA Reporting Unit: mg/m ³ , ppmv, ppbv, PPMV, Other:	
Method: PM10 SC: Fixed Gas (%) TO-3 TO-3M (Metals) TO-4 (PCRA) TO-13 (PAN) TO-14 TO-15 TO-15 Short List TO-15 SRM Place Lab ID:		Flow Control Number: 1424 Summa Can Number: 10469 Canister Pressure (Initial Field - psig): -28 Canister Pressure (Final Field - psig): -5		Collected: DATE: 04/23/2013 TIME: 08:30 DATE: 04/23/2013 TIME: 08:37		Relinquished By / Affiliation: <i>Franklin / Rous</i> Date: 04/23/2013 Time: 08:37	
Media Code: 166 PD Reading (Check only): Vial Media Codes: MEDIA CODE Tissue Bag TB Air Sampling Can - TC Air Sampling Can - TC Low Volume PVA - LVP High Volume PVA - HVP Other:		Accepted By / Affiliation: <i>Amcquire / Rous</i> Date: 04/23/2013 Time: 11:00		Sample Conditions: Received on Ice: Y/N Sealed Cooler: Y/N Samples Intact: Y/N		Sampler Name and Signature: <i>Franklin</i> Date Signed (MM/DD/YYYY): 04/23/2013	

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PACE ANALYTICAL		COOLER RECEIPT FORM			Page () Of ()						
Submission #: 23-06913											
SHIPPING INFORMATION			SHIPPING CONTAINER			FREE LIQUID					
Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/>			Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/>			YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>					
Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			Other <input type="checkbox"/> (Specify) _____			W / S					
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____											
Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Summa</u> Thermometer ID: _____		Date/Time <u>4-6-23</u>		Analyst Init <u>SM/100</u>					
Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C											
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr*											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 504											
QT EPA 508/608.3/808.1A											
QT EPA 515.1/815.1A											
QT EPA 525.2											
QT EPA 525.2 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548.1											
QT EPA 549.2											
QT EPA 8015M											
QT EPA 8270C											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER											
<u>1-42</u>											
<u>A</u>											

Comments: _____
Sample Numbering Completed By: ATL Date/Time: 4-6-23 1550
A = Actual / C = Corrected

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/10/2023 16:11
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information																				
2306913-01	<table><tr><td>COC Number:</td><td>---</td><td>Receive Date:</td><td>04/06/2023 11:00</td></tr><tr><td>Project Number:</td><td>---</td><td>Sampling Date:</td><td>04/05/2023 09:37</td></tr><tr><td>Sampling Location:</td><td>---</td><td>Sample Depth:</td><td>---</td></tr><tr><td>Sampling Point:</td><td>SV-22-1-R</td><td>Lab Matrix:</td><td>Air</td></tr><tr><td>Sampled By:</td><td>Travis Clow</td><td>Sample Type:</td><td>Vapor or Air</td></tr></table>	COC Number:	---	Receive Date:	04/06/2023 11:00	Project Number:	---	Sampling Date:	04/05/2023 09:37	Sampling Location:	---	Sample Depth:	---	Sampling Point:	SV-22-1-R	Lab Matrix:	Air	Sampled By:	Travis Clow	Sample Type:	Vapor or Air
COC Number:	---	Receive Date:	04/06/2023 11:00																		
Project Number:	---	Sampling Date:	04/05/2023 09:37																		
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Sampling Point:	SV-22-1-R	Lab Matrix:	Air																		
Sampled By:	Travis Clow	Sample Type:	Vapor or Air																		

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/10/2023 16:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306913-01		Client Sample Name: SV-22-1-R, 4/5/2023 9:37:00AM, Travis Clow						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	78	ug/m3	8.9	0.77	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.6	0.48	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.6	0.50	EPA-TO-15	ND	A01	1
Benzene	ND	ug/m3	3.6	0.37	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	18	0.46	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.9	0.80	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	18	1.5	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.6	0.84	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.6	0.39	EPA-TO-15	ND	A01	1
Carbon disulfide	5.8	ug/m3	3.6	0.34	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.9	0.80	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.9	0.71	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.6	0.94	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	8.9	0.96	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	3.6	0.37	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	3.6	0.68	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	8.9	0.77	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.9	1.0	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.9	0.89	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.9	0.55	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.9	0.89	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.8	ug/m3	8.9	0.80	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.9	0.41	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.9	0.46	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.9	0.55	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.6	0.57	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.6	0.48	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.9	0.57	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.9	0.53	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.9	0.71	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.9	1.6	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.9	3.6	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.6	0.59	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/10/2023 16:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306913-01		Client Sample Name: SV-22-1-R, 4/5/2023 9:37:00AM, Travis Clow						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	9.9	ug/m3	3.6	0.75	EPA-TO-15	ND	A01	1
Ethyl acetate	1.5	ug/m3	3.6	0.59	EPA-TO-15	ND	J,A01	1
Ethylbenzene	4.3	ug/m3	8.9	0.57	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	8.9	0.53	EPA-TO-15	ND	A01	1
n-Heptane	0.80	ug/m3	3.6	0.61	EPA-TO-15	ND	J,A01	1
Hexachlorobutadiene	ND	ug/m3	18	2.7	EPA-TO-15	ND	A01	1
Hexane	ND	ug/m3	8.9	0.36	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ug/m3	8.9	0.52	EPA-TO-15	ND	A01	1
Isopropyl alcohol	5.9	ug/m3	3.6	0.57	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	18	0.71	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	2.7	ug/m3	3.6	0.34	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	ND	ug/m3	8.9	0.46	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	3.6	0.50	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.6	0.44	EPA-TO-15	ND	A01	1
Styrene	0.76	ug/m3	8.9	0.43	EPA-TO-15	ND	J,A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.9	0.84	EPA-TO-15	ND	A01	1
Tetrachloroethene	3.5	ug/m3	3.6	0.89	EPA-TO-15	ND	J,A01	1
Tetrahydrofuran	ND	ug/m3	3.6	0.48	EPA-TO-15	ND	A01	1
Toluene	2.1	ug/m3	3.6	0.48	EPA-TO-15	ND	J,A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	18	1.5	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.9	0.69	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.9	1.1	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.6	0.96	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.5	ug/m3	8.9	0.84	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.9	0.98	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	ND	ug/m3	8.9	0.71	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.9	0.71	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.6	0.59	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.6	0.69	EPA-TO-15	ND	A01	1
p- & m-Xylenes	18	ug/m3	8.9	1.1	EPA-TO-15	ND	A01	1
o-Xylene	5.1	ug/m3	8.9	0.53	EPA-TO-15	ND	J,A01	1
Total Xylenes	23	ug/m3	18	1.6	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	93.9	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/10/2023 16:11
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306913-01 Client Sample Name: SV-22-1-R, 4/5/2023 9:37:00AM, Travis Clow

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15	04/07/23 13:49	04/07/23 22:41		BEP	MS-A2	1.780	B163615	EPA TO-15

DCN = Data Continuation Number

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Reported: 04/10/2023 16:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163615							
Acetone	B163615-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B163615-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B163615-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B163615-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B163615-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B163615-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B163615-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B163615-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B163615-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B163615-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B163615-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B163615-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B163615-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B163615-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B163615-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B163615-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B163615-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B163615-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B163615-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B163615-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B163615-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B163615-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B163615-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B163615-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B163615-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B163615-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B163615-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B163615-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B163615-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B163615-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B163615-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B163615-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B163615-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B163615-BLK1	ND	ug/m3	2.0	0.42		1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/10/2023 16:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163615							
Ethyl acetate	B163615-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B163615-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B163615-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B163615-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B163615-BLK1	ND	ug/m3	10	1.5		1
Hexane	B163615-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B163615-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B163615-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B163615-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B163615-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B163615-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B163615-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B163615-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B163615-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B163615-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B163615-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B163615-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B163615-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B163615-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B163615-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B163615-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B163615-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B163615-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B163615-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B163615-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B163615-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B163615-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B163615-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B163615-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B163615-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B163615-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B163615-BLK1	91.0	%	70 - 130 (LCL - UCL)			1

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Long Beach, CA 90804

Reported: 04/10/2023 16:11
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23	15:43	BEP	MS-A2	1

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 Long Beach, CA 90804

Reported: 04/10/2023 16:11
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B163615											
Benzene	B163615-BS1	LCS	15.910	15.974	ug/m3	99.6		70 - 130			1
	B163615-BSD1	LCSD	15.527	15.974	ug/m3	97.2	2.4	70 - 130	30		2
Chloroform	B163615-BS1	LCS	23.485	24.413	ug/m3	96.2		70 - 130			1
	B163615-BSD1	LCSD	23.583	24.413	ug/m3	96.6	0.4	70 - 130	30		2
Ethylbenzene	B163615-BS1	LCS	22.101	21.711	ug/m3	102		70 - 130			1
	B163615-BSD1	LCSD	22.319	21.711	ug/m3	103	1.0	70 - 130	30		2
Tetrachloroethene	B163615-BS1	LCS	33.031	33.913	ug/m3	97.4		70 - 130			1
	B163615-BSD1	LCSD	33.913	33.913	ug/m3	100	2.6	70 - 130	30		2
Toluene	B163615-BS1	LCS	18.805	18.842	ug/m3	99.8		70 - 130			1
	B163615-BSD1	LCSD	19.031	18.842	ug/m3	101	1.2	70 - 130	30		2
Trichloroethene	B163615-BS1	LCS	26.600	26.869	ug/m3	99.0		70 - 130			1
	B163615-BSD1	LCSD	27.084	26.869	ug/m3	101	1.8	70 - 130	30		2
Trichlorofluoromethane	B163615-BS1	LCS	26.856	28.092	ug/m3	95.6		70 - 130			1
	B163615-BSD1	LCSD	27.024	28.092	ug/m3	96.2	0.6	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B163615-BS1	LCS	37.475	38.318	ug/m3	97.8		70 - 130			1
	B163615-BSD1	LCSD	37.552	38.318	ug/m3	98.0	0.2	70 - 130	30		2
p- & m-Xylenes	B163615-BS1	LCS	46.721	43.421	ug/m3	108		70 - 130			1
	B163615-BSD1	LCSD	47.025	43.421	ug/m3	108	0.6	70 - 130	30		2
o-Xylene	B163615-BS1	LCS	22.970	21.711	ug/m3	106		70 - 130			1
	B163615-BSD1	LCSD	23.447	21.711	ug/m3	108	2.1	70 - 130	30		2
Total Xylenes	B163615-BS1	LCS	69.691	65.132	ug/m3	107		70 - 130			1
	B163615-BSD1	LCSD	70.473	65.132	ug/m3	108	1.1	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B163615-BS1	LCS	71.6	71.6	ug/m3	100		70 - 130			1
	B163615-BSD1	LCSD	71.3	71.6	ug/m3	99.6	0.4	70 - 130			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B163615-BS1	LCS	EPA-TO-15	04/07/23	04/07/23	14:29	BEP	MS-A2	1
2	B163615-BSD1	LCSD	EPA-TO-15	04/07/23	04/07/23	15:08	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/10/2023 16:11
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

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



Date of Report: 03/16/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304953
Invoice ID: B471501

Enclosed are the results of analyses for samples received by the laboratory on 3/9/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "BS", is positioned above a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", is positioned above a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / AIR

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant the

2304953

Page: 1 of

23-04953

Section C

Section B

Section A

Program
 UST Superfund Emissions Clean-
 Voluntary Clean Up Dry Clean RCRA

Location of Sampling by State: CA

Report Level: I, II, III, IV, Other

Invoicing Information
 Attention: Rous Accounts Payable (rousp@rousc.com)
 Company Name: Rous
 Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
 Pace Quote Reference: 001324817 & 001326333
 Pace Project Manager/Sales Rep: Branna Schulte / Dawn Gonor
 Pace Profile #

Required Project Information
 Report To: April McGuire
 Copy To:
 Purchase Order No.:
 Project Name: City Terrace
 Project Number: 2855

Required Client Information
 Company: Rous
 Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
 Email To: amcguire@rousc.com
 Phone: 562-446-8824 Fax:
 Requested Due Date/TIME: Standard

Method: TO-15 SIF TO-15 SIF L TO-15 SIF L

Flow Control Number

Summa Can Number	1488	1430
Final Field - psig	-5	-27
Initial Field - psig	-5	-26
Summa Can Number	6028	1435
Final Field - psig	-5	-26
Initial Field - psig	-5	-26

COLLECTED

DATE	TIME	DATE	TIME
03/08/23	1456	03/08/23	1623
03/08/23	1405	03/08/23	1452
03/08/23	1445	03/08/23	1452

RELINQUISHED BY / AFFILIATION

DATE	TIME	DATE	TIME
03/08/23	1748	03/08/23	1748
03/08/23	1815	03/08/23	1815

RECEIVED BY / AFFILIATION

DATE	TIME	DATE	TIME
03/08/23	1748	03/08/23	1748
03/08/23	1815	03/08/23	1815

Comments:

CHK BY: *[Signature]* AIR DISRUPTION

SAMPLE OUT

Accepted by / Affiliation: Alex Perdikis (Rous) 3/8/23 1748

Relinquished by / Affiliation: Alex Perdikis (Rous) 3/8/23 1815

Relinquished by / Affiliation: Alex Perdikis (Rous) 3/8/23 1748

Accepted by / Affiliation: Alex Perdikis (Rous) 3/8/23 1815

Relinquished by / Affiliation: Alex Perdikis (Rous) 3/8/23 1748

Accepted by / Affiliation: Alex Perdikis (Rous) 3/8/23 1815

Temp in °C

Received on

Sealed Cover

SAMPLER NAME AND SIGNATURE

[Signature]

DATE: 03/08/23

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612-763886

FC046Rev 01, 03Feb02

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page (Of)											
Submission #: <u>2304953</u>															
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S										
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____															
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____															
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>															
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUNMA</u> Thermometer ID: _____		Date/Time <u>3-9-23</u>											
		Temperature: (A) <u>Room</u> °C (C) <u>Temp</u> °C		Analyst Init <u>SMH/112</u>											
SAMPLE CONTAINERS			SAMPLE NUMBERS												
			1 2 3 4 5 6 7 8 9 10												
QT PE UNPRES															
4oz / 8oz / 16oz PE UNPRES															
2oz Cr ⁴															
QT INORGANIC CHEMICAL METALS															
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz															
PT CYANIDE															
PT NITROGEN FORMS															
PT TOTAL SULFIDE															
2oz. NITRATE / NITRITE															
PT TOTAL ORGANIC CARBON															
PT CHEMICAL OXYGEN DEMAND															
PLA PHENOLICS															
40ml VOA VIAL TRAVEL BLANK															
40ml VOA VIAL															
QT EPA 1664B															
PT ODOR															
RADIOLOGICAL															
BACTERIOLOGICAL															
40 ml VOA VIAL - 504															
QT EPA 513/603.3/5881A															
QT EPA 515.1/3151A															
QT EPA 525.2															
QT EPA 525.2 TRAVEL BLANK															
40ml EPA 547															
40ml EPA 531.1															
8oz EPA 548.1															
QT EPA 549.2															
QT EPA 0015M															
QT EPA 5270C															
8oz / 16oz / 32oz AMBER															
8oz / 16oz / 32oz JAR															
SOIL SLEEVE															
PCB VIAL															
PLASTIC BAG															
TEDLAR BAG															
FERROUS IRON															
ENCORE															
SMART KIT															
SUNMA CANISTER			<u>1.4L</u>	<u>A</u>	<u>A</u>	<u>A</u>									

Comments: _____
 Sample Numbering Completed By: JCD Date/Time: 3-10-23 1000
 A = Actual / C = Corrected

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304953-01	COC Number:	---	Receive Date:	03/09/2023 11:12
	Project Number:	---	Sampling Date:	03/08/2023 15:02
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-23-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			
2304953-02	COC Number:	---	Receive Date:	03/09/2023 11:12
	Project Number:	---	Sampling Date:	03/08/2023 14:52
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-23-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			
2304953-03	COC Number:	---	Receive Date:	03/09/2023 11:12
	Project Number:	---	Sampling Date:	03/08/2023 14:52
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-23-2-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304953-01		Client Sample Name: SV-23-1, 3/8/2023 3:02:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	38	ug/m3	8.1	0.70	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.2	0.44	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Benzene	6.9	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.42	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.1	0.73	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.2	0.76	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.2	0.36	EPA-TO-15	ND	A01	1
Carbon disulfide	11	ug/m3	3.2	0.31	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.1	0.73	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.1	0.65	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.2	0.86	EPA-TO-15	ND	A01	1
Chloroform	2.8	ug/m3	8.1	0.87	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	3.2	0.62	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	8.1	0.70	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.1	0.94	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.1	0.81	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.1	0.50	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.1	0.81	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.9	ug/m3	8.1	0.73	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.1	0.37	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.1	0.42	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.1	0.50	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.2	0.44	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.1	0.52	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.1	0.49	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.1	0.65	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.1	1.5	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	4.6	ug/m3	8.1	3.2	EPA-TO-15	ND	J,A01	1
1,4-Dioxane	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304953-01		Client Sample Name: SV-23-1, 3/8/2023 3:02:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	19	ug/m3	3.2	0.68	EPA-TO-15	ND	A01	1
Ethyl acetate	2.6	ug/m3	3.2	0.53	EPA-TO-15	ND	J,A01	1
Ethylbenzene	3.0	ug/m3	8.1	0.52	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	0.80	ug/m3	8.1	0.49	EPA-TO-15	ND	J,A01	1
n-Heptane	4.4	ug/m3	3.2	0.55	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	1
Hexane	3.0	ug/m3	8.1	0.32	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	8.1	0.47	EPA-TO-15	ND	A01	1
Isopropyl alcohol	45	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.65	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	4.1	ug/m3	3.2	0.31	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	0.86	ug/m3	8.1	0.42	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Propylene	4.5	ug/m3	3.2	0.40	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	8.1	0.39	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.1	0.76	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.2	0.81	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.2	0.44	EPA-TO-15	ND	A01	1
Toluene	7.6	ug/m3	3.2	0.44	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.1	0.63	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.1	0.99	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.2	0.87	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.5	ug/m3	8.1	0.76	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.1	0.89	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.8	ug/m3	8.1	0.65	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.1	0.65	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.2	0.63	EPA-TO-15	ND	A01	1
p- & m-Xylenes	9.1	ug/m3	8.1	0.99	EPA-TO-15	ND	A01	1
o-Xylene	2.7	ug/m3	8.1	0.49	EPA-TO-15	ND	J,A01	1
Total Xylenes	12	ug/m3	16	1.5	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	97.9	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304953-01	Client Sample Name: SV-23-1, 3/8/2023 3:02:00PM, Client
----------------------------------	--

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	03/14/23 13:48	03/14/23 19:51	BEP	MS-A1	1.620	B161871 EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304953-02		Client Sample Name: SV-23-2, 3/8/2023 2:52:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	30	ug/m3	7.6	0.66	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.1	0.41	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.1	0.43	EPA-TO-15	ND	A01	1
Benzene	5.0	ug/m3	3.1	0.32	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	15	0.40	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	7.6	0.69	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	15	1.3	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.1	0.72	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.1	0.34	EPA-TO-15	ND	A01	1
Carbon disulfide	9.2	ug/m3	3.1	0.29	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	7.6	0.69	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	7.6	0.61	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.1	0.81	EPA-TO-15	ND	A01	1
Chloroform	1.4	ug/m3	7.6	0.83	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.1	0.32	EPA-TO-15	ND	A01	1
Cyclohexane	1.3	ug/m3	3.1	0.58	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	7.6	0.66	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	7.6	0.89	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	7.6	0.76	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	7.6	0.47	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	7.6	0.76	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	3.0	ug/m3	7.6	0.69	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	7.6	0.35	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	7.6	0.40	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	7.6	0.47	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.1	0.49	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.1	0.41	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	7.6	0.49	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	7.6	0.46	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	7.6	0.61	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	7.6	1.4	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	7.6	3.1	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.1	0.50	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304953-02		Client Sample Name: SV-23-2, 3/8/2023 2:52:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	15	ug/m3	3.1	0.64	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	3.1	0.50	EPA-TO-15	ND	A01	1
Ethylbenzene	2.6	ug/m3	7.6	0.49	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	7.6	0.46	EPA-TO-15	ND	A01	1
n-Heptane	7.8	ug/m3	3.1	0.52	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	15	2.3	EPA-TO-15	ND	A01	1
Hexane	6.6	ug/m3	7.6	0.31	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	7.6	0.44	EPA-TO-15	ND	A01	1
Isopropyl alcohol	34	ug/m3	3.1	0.49	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	15	0.61	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	2.8	ug/m3	3.1	0.29	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	0.69	ug/m3	7.6	0.40	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.1	0.43	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.1	0.38	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	7.6	0.37	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	7.6	0.72	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.1	0.76	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.1	0.41	EPA-TO-15	ND	A01	1
Toluene	6.3	ug/m3	3.1	0.41	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	15	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	7.6	0.60	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	7.6	0.93	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.1	0.83	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.7	ug/m3	7.6	0.72	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	7.6	0.84	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	0.98	ug/m3	7.6	0.61	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	7.6	0.61	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.1	0.50	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.1	0.60	EPA-TO-15	ND	A01	1
p- & m-Xylenes	8.9	ug/m3	7.6	0.93	EPA-TO-15	ND	A01	1
o-Xylene	2.9	ug/m3	7.6	0.46	EPA-TO-15	ND	J,A01	1
Total Xylenes	12	ug/m3	15	1.4	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	95.7	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304953-02	Client Sample Name: SV-23-2, 3/8/2023 2:52:00PM, Client
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	03/14/23 13:48	03/14/23 20:27	BEP	MS-A1	1.530	B161871 EPA TO-15

DCN = Data Continuation Number

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Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304953-03		Client Sample Name: SV-23-2-D, 3/8/2023 2:52:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	33	ug/m3	8.2	0.70	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.3	0.46	EPA-TO-15	ND	A01	1
Benzene	4.8	ug/m3	3.3	0.34	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.42	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.2	0.73	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.3	0.77	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.3	0.36	EPA-TO-15	ND	A01	1
Carbon disulfide	9.1	ug/m3	3.3	0.31	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.2	0.73	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.2	0.65	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.3	0.86	EPA-TO-15	ND	A01	1
Chloroform	1.4	ug/m3	8.2	0.88	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.3	0.34	EPA-TO-15	ND	A01	1
Cyclohexane	1.2	ug/m3	3.3	0.62	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	8.2	0.70	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.2	0.95	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.2	0.82	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.2	0.51	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.2	0.82	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	3.1	ug/m3	8.2	0.73	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.2	0.37	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.2	0.42	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.2	0.51	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.3	0.52	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.2	0.52	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.2	0.49	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.2	0.65	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.2	1.5	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	3.7	ug/m3	8.2	3.3	EPA-TO-15	ND	J,A01	1
1,4-Dioxane	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	1

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 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304953-03		Client Sample Name: SV-23-2-D, 3/8/2023 2:52:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	15	ug/m3	3.3	0.68	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	1
Ethylbenzene	2.4	ug/m3	8.2	0.52	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	8.2	0.49	EPA-TO-15	ND	A01	1
n-Heptane	6.9	ug/m3	3.3	0.55	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	1
Hexane	6.3	ug/m3	8.2	0.33	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	8.2	0.47	EPA-TO-15	ND	A01	1
Isopropyl alcohol	34	ug/m3	3.3	0.52	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.65	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	2.6	ug/m3	3.3	0.31	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	0.67	ug/m3	8.2	0.42	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.3	0.46	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.3	0.41	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	8.2	0.39	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.2	0.77	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.3	0.82	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	1
Toluene	5.8	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.2	0.64	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.2	0.99	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.3	0.88	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.8	ug/m3	8.2	0.77	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.2	0.90	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	0.96	ug/m3	8.2	0.65	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.2	0.65	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.3	0.64	EPA-TO-15	ND	A01	1
p- & m-Xylenes	8.2	ug/m3	8.2	0.99	EPA-TO-15	ND	A01	1
o-Xylene	2.4	ug/m3	8.2	0.49	EPA-TO-15	ND	J,A01	1
Total Xylenes	11	ug/m3	16	1.5	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	93.9	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304953-03	Client Sample Name: SV-23-2-D, 3/8/2023 2:52:00PM, Client
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	03/14/23 13:48	03/14/23 21:04	BEP	MS-A1	1.630	B161871 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161871							
Acetone	B161871-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B161871-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B161871-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B161871-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B161871-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B161871-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B161871-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B161871-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B161871-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B161871-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B161871-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B161871-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B161871-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B161871-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B161871-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B161871-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B161871-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B161871-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B161871-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B161871-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B161871-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B161871-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B161871-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B161871-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B161871-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B161871-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B161871-BLK1	ND	ug/m3	2.0	0.42		1

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 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161871							
Ethyl acetate	B161871-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B161871-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B161871-BLK1	ND	ug/m3	10	1.5		1
Hexane	B161871-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B161871-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B161871-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B161871-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B161871-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B161871-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B161871-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B161871-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B161871-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B161871-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B161871-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B161871-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B161871-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B161871-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B161871-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B161871-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161871-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B161871-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B161871-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B161871-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B161871-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B161871-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B161871-BLK1	90.5	%	70 - 130 (LCL - UCL)			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/16/2023 8:06
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/16/2023 8:06
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1

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Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161871											
Benzene	B161871-BS1	LCS	14.856	15.974	ug/m3	93.0		70 - 130			1
	B161871-BSD1	LCSD	15.047	15.974	ug/m3	94.2	1.3	70 - 130	30		2
Chloroform	B161871-BS1	LCS	22.899	24.413	ug/m3	93.8		70 - 130			1
	B161871-BSD1	LCSD	22.850	24.413	ug/m3	93.6	0.2	70 - 130	30		2
Ethylbenzene	B161871-BS1	LCS	20.625	21.711	ug/m3	95.0		70 - 130			1
	B161871-BSD1	LCSD	20.538	21.711	ug/m3	94.6	0.4	70 - 130	30		2
Tetrachloroethene	B161871-BS1	LCS	31.132	33.913	ug/m3	91.8		70 - 130			1
	B161871-BSD1	LCSD	30.589	33.913	ug/m3	90.2	1.8	70 - 130	30		2
Toluene	B161871-BS1	LCS	18.616	18.842	ug/m3	98.8		70 - 130			1
	B161871-BSD1	LCSD	18.352	18.842	ug/m3	97.4	1.4	70 - 130	30		2
Trichloroethene	B161871-BS1	LCS	24.665	26.869	ug/m3	91.8		70 - 130			1
	B161871-BSD1	LCSD	24.934	26.869	ug/m3	92.8	1.1	70 - 130	30		2
Trichlorofluoromethane	B161871-BS1	LCS	26.013	28.092	ug/m3	92.6		70 - 130			1
	B161871-BSD1	LCSD	26.575	28.092	ug/m3	94.6	2.1	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B161871-BS1	LCS	34.563	38.318	ug/m3	90.2		70 - 130			1
	B161871-BSD1	LCSD	34.946	38.318	ug/m3	91.2	1.1	70 - 130	30		2
p- & m-Xylenes	B161871-BS1	LCS	41.815	43.421	ug/m3	96.3		70 - 130			1
	B161871-BSD1	LCSD	41.945	43.421	ug/m3	96.6	0.3	70 - 130	30		2
o-Xylene	B161871-BS1	LCS	21.016	21.711	ug/m3	96.8		70 - 130			1
	B161871-BSD1	LCSD	21.146	21.711	ug/m3	97.4	0.6	70 - 130	30		2
Total Xylenes	B161871-BS1	LCS	62.831	65.132	ug/m3	96.5		70 - 130			1
	B161871-BSD1	LCSD	63.091	65.132	ug/m3	96.9	0.4	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161871-BS1	LCS	71.7	71.6	ug/m3	100		70 - 130			1
	B161871-BSD1	LCSD	71.1	71.6	ug/m3	99.4	0.8	70 - 130			2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/16/2023 8:06
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

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



Date of Report: 04/03/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304954
Invoice ID: B471452, B472100, B472854

Enclosed are the results of analyses for samples received by the laboratory on 3/9/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001408950

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / ANAL
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

2304954

Page: 1 of 1

Section C Invoice Information
 Attention: Roux Accounts Payable (rouxacc@pacelabs.com)
 Company Name: Roux
 Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
 Pace Quote Reference: 00132481 & 00132633
 Pace Project Manager/Sales Rep: Bronna Schulte / Dawn Gisor
 Pace Profile #:

Section B Required Project Information
 Report To: Apart McGuire
 Copy To:
 Purchase Order No.:
 Project Name: City Terrace
 Project Number: 2855

Section A Required Client Information
 Company: Roux
 Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
 Email To: amcguire@pacelabs.com
 Phone: 562-448-8624 Fax:
 Requested Due Date(TAT): Standard

Section D Required Client Information
 AIR SAMPLE ID
 Sample IDs MUST BE UNIQUE

ITEM #	VEIL BRASS CODE	DATE	TIME	DATE	TIME	Summa Can Number	Flow Control Number
1	AA-23-1	03/07/23	1426	03/08/23	1110	06370	7629
2	TA-23-1	03/07/23	1446	03/08/23	1354	27733	13690
3	TA-23-2	03/07/23	1449	03/08/23	1352	07380	03874

Method: PM10
 SC: Rad Gas (%)
 TO-3: TO-3 (Methane)
 TO-4: TO-4 (PCBN)
 TO-13: TO-13 (PM)
 TO-14: TO-14
 TO-15: TO-15
 TO-15 SM: TO-15 SM
 TO-15 Short Line: TO-15 Short Line

Report Level: II, X, III, IV, Other

Program: USF Superfund Emissions Clean
 Voluntary Clean Up Dry Clean RCRA

Location of Sampling by State: CA
 State: CA
 Agency: REG
 Other: ENVY

Temp in Cooler: 5°C

Received on: 3/8/23 N/A

Custody: 3/8/23 N/A

Sealed Cooler: 3/8/23 N/A

RELINQUISHED BY / AFFILIATION

DATE	TIME	SIGNATURE	AFFILIATION
03/08/23	1426	<i>Alex Pentel</i>	Alex Pentel (Roux)
03/08/23	1815	<i>James</i>	James (Roux)

ACCEPTED BY / AFFILIATION

DATE	TIME	SIGNATURE	AFFILIATION
03/08/23	1748	<i>Alex Pentel</i>	Alex Pentel (Roux)
03/08/23	1112	<i>James</i>	James (Roux)

Signature of Customer: *James* DATE SIGNED: 03/08/23

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612-763886

FC046Rev 01, 03Feb02

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>							
Submission #: <u>23-04954</u>											
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S						
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SAMPLES</u> Thermometer ID: _____		Date/Time <u>3-9-23</u>							
		Temperature: (A) <u>Room</u> °C | (C) <u>temp</u> °C		Analyst Inlt <u>Smith 1112</u>							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1 2 3 4 5 6 7 8 9 10									
OT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cu ⁺											
OT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PIA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 504											
QT EPA 963/608.3/8231A											
QT EPA 515.1/8151A											
QT EPA 525.2											
QT EPA 525.2 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 518.1											
QT EPA 549.2											
QT EPA 8015M											
QT EPA 8170C											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER		<u>6L</u>	<u>A</u>	<u>A</u>	<u>A</u>						

Comments: _____
 Sample Numbering Completed By: JCV Date/Time: 3-10-23 1000
 A = Actual / C = Corrected Rev 23 05220/22
(S:\IT\Doc\Word\PerfectLAB_DOC\COF\MSA\USE Cov 20)



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304954-01	COC Number:	---	Receive Date:	03/09/2023 11:12
	Project Number:	---	Sampling Date:	03/08/2023 11:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AA-23-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2304954-02	COC Number:	---	Receive Date:	03/09/2023 11:12
	Project Number:	---	Sampling Date:	03/08/2023 13:34
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-23-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2304954-03	COC Number:	---	Receive Date:	03/09/2023 11:12
	Project Number:	---	Sampling Date:	03/08/2023 13:32
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-23-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304954-01		Client Sample Name: AA-23-1, 3/8/2023 11:10:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	6.6	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	2.8	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.70	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.64	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
Chloromethane	0.95	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.0	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304954-01		Client Sample Name: AA-23-1, 3/8/2023 11:10:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	0.38	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	5.1	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.25	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	3.5	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Methyl ethyl ketone	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304954-01		Client Sample Name: AA-23-1, 3/8/2023 11:10:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	1.4	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.3	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	0.70	ug/m3	2.0	0.54	EPA-TO-15	ND	J	1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	0.91	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	0.89	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.31	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	0.91	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	1.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	99.6	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	96.6	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304954-01	Client Sample Name: AA-23-1, 3/8/2023 11:10:00AM, Client								
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/21/23 13:12	03/22/23 11:30	BEP	MS-A2	1	B162342	EPA TO-15	
2	EPA-TO-15-SIM	03/10/23 13:05	03/11/23 03:55	BEP	MS-A2	1	B161688	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304954-01	Client Sample Name: AA-23-1, 3/8/2023 11:10:00AM, Client
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	5.7	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/22/23 08:48	03/22/23 21:04	RMK	GC-A1	1	B162452	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304954-02		Client Sample Name: IA-23-1, 3/8/2023 1:34:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	56	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	19	ug/m3	20	0.15	EPA-TO-15-SIM	ND	J,A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.77	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.68	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	0.99	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	1.8	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304954-02		Client Sample Name: IA-23-1, 3/8/2023 1:34:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	3.8	ug/m3	5.0	2.0	EPA-TO-15	ND	J	1
1,1-Difluoroethane	2.5	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	210	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	6.1	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.42	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	0.60	ug/m3	5.0	0.20	EPA-TO-15	ND	J	1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	860	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	0.97	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304954-02		Client Sample Name: IA-23-1, 3/8/2023 1:34:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	1.3	ug/m3	2.0	0.50	EPA-TO-15	ND	J	1
Tetrachloroethene	1.2	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	2.4	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	2.1	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.0	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.2	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.3	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.42	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	1.2	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	1.7	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	97.5	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	96.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	117	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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 Long Beach, CA 90804

Reported: 04/03/2023 13:19
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304954-02		Client Sample Name: IA-23-1, 3/8/2023 1:34:00PM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/21/23 13:12	03/22/23 12:15	BEP	MS-A2	1	B162342	EPA TO-15	
2	EPA-TO-15-SIM	03/10/23 13:05	03/11/23 06:04	BEP	MS-A2	20	B161688	EPA TO-15	
3	EPA-TO-15-SIM	03/10/23 13:05	03/11/23 04:38	BEP	MS-A2	1	B161688	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304954-02	Client Sample Name: IA-23-1, 3/8/2023 1:34:00PM, Client
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.4	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/22/23 08:48	03/22/23 21:25	RMK	GC-A1	1	B162452	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304954-03		Client Sample Name: IA-23-2, 3/8/2023 1:32:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	21	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	1
Acetone	55	ug/m3	5.0	0.43	EPA-TO-15	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		2
Benzene	0.73	ug/m3	2.0	0.21	EPA-TO-15	ND	J	2
Benzene	0.69	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		2
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		2
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		2
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		2
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		2
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		2
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.0	ug/m3	2.0	0.21	EPA-TO-15	ND	J	2
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		2
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		2
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	1.9	ug/m3	5.0	0.45	EPA-TO-15	ND	J	2
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304954-03		Client Sample Name: IA-23-2, 3/8/2023 1:32:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		2
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		2
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		2
1,1-Difluoroethane	3.2	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	1
1,1-Difluoroethane	4.6	ug/m3	5.0	2.0	EPA-TO-15	ND	J	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Ethanol	230	ug/m3	2.0	0.42	EPA-TO-15	ND		2
Ethyl acetate	5.5	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		2
Ethylbenzene	0.43	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		2
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		2
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		2
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		2
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		2
Isopropyl alcohol	990	ug/m3	2.0	0.32	EPA-TO-15	ND		2
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		2
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.0	ug/m3	2.0	0.19	EPA-TO-15	ND	J	2
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		2
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		2

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Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304954-03		Client Sample Name: IA-23-2, 3/8/2023 1:32:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		2
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		2
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		2
Tetrachloroethene	1.6	ug/m3	2.0	0.50	EPA-TO-15	ND	J	2
Tetrachloroethene	1.4	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
Toluene	2.3	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	A01	1
Toluene	2.8	ug/m3	2.0	0.27	EPA-TO-15	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		2
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		2
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		2
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.0	ug/m3	5.0	0.47	EPA-TO-15	ND	J	2
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		2
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.3	ug/m3	5.0	0.61	EPA-TO-15	ND	J	2
p- & m-Xylenes	1.4	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.43	ug/m3	5.0	0.30	EPA-TO-15	ND	J	2
o-Xylene	0.44	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	1.7	ug/m3	10	0.91	EPA-TO-15	ND	J	2
Total Xylenes	1.8	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	96.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	97.1	%	70 - 130 (LCL - UCL)		EPA-TO-15			2
4-Bromofluorobenzene (Surrogate)	117	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304954-03		Client Sample Name: IA-23-2, 3/8/2023 1:32:00PM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15-SIM	03/10/23 13:05	03/11/23 06:43	BEP	MS-A2	20	B161688	EPA TO-15	
2	EPA-TO-15	03/21/23 13:12	03/22/23 13:00	BEP	MS-A2	1	B162342	EPA TO-15	
3	EPA-TO-15-SIM	03/10/23 13:05	03/11/23 05:23	BEP	MS-A2	1	B161688	EPA TO-15	

DCN = Data Continuation Number

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Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304954-03	Client Sample Name: IA-23-2, 3/8/2023 1:32:00PM, Client
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	100	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/22/23 08:48	03/22/23 21:45	RMK	GC-A1	1	B162452	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161688							
Acetone	B161688-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B161688-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B161688-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B161688-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B161688-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B161688-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B161688-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B161688-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B161688-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B161688-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B161688-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B161688-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B161688-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B161688-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B161688-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B161688-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B161688-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B161688-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B161688-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B161688-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B161688-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B161688-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B161688-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B161688-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B161688-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B161688-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161688-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B161688-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B161688-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B161688-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B161688-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B161688-BLK1	82.4	%	50 - 150 (LCL - UCL)			1
QC Batch ID: B162342							

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Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162342							
Acetone	B162342-BLK1	ND	ug/m3	5.0	0.43		2
Acrylonitrile	B162342-BLK1	ND	ug/m3	2.0	0.27		2
Allyl chloride	B162342-BLK1	ND	ug/m3	2.0	0.28		2
Benzene	B162342-BLK1	ND	ug/m3	2.0	0.21		2
Benzyl chloride	B162342-BLK1	ND	ug/m3	10	0.26		2
Bromodichloromethane	B162342-BLK1	ND	ug/m3	5.0	0.45		2
Bromoform	B162342-BLK1	ND	ug/m3	10	0.86		2
Bromomethane	B162342-BLK1	ND	ug/m3	2.0	0.47		2
1,3-Butadiene	B162342-BLK1	ND	ug/m3	2.0	0.22		2
Carbon disulfide	B162342-BLK1	ND	ug/m3	2.0	0.19		2
Carbon tetrachloride	B162342-BLK1	ND	ug/m3	5.0	0.45		2
Chlorobenzene	B162342-BLK1	ND	ug/m3	5.0	0.40		2
Chloroethane	B162342-BLK1	ND	ug/m3	2.0	0.53		2
Chloroform	B162342-BLK1	ND	ug/m3	5.0	0.54		2
Chloromethane	B162342-BLK1	ND	ug/m3	2.0	0.21		2
Cyclohexane	B162342-BLK1	ND	ug/m3	2.0	0.38		2
Dibromochloromethane	B162342-BLK1	ND	ug/m3	5.0	0.43		2
1,2-Dibromoethane	B162342-BLK1	ND	ug/m3	5.0	0.58		2
1,2-Dichlorobenzene	B162342-BLK1	ND	ug/m3	5.0	0.50		2
1,3-Dichlorobenzene	B162342-BLK1	ND	ug/m3	5.0	0.31		2
1,4-Dichlorobenzene	B162342-BLK1	ND	ug/m3	5.0	0.50		2
Dichlorodifluoromethane	B162342-BLK1	ND	ug/m3	5.0	0.45		2
1,1-Dichloroethane	B162342-BLK1	ND	ug/m3	5.0	0.23		2
1,2-Dichloroethane	B162342-BLK1	ND	ug/m3	5.0	0.26		2
1,1-Dichloroethene	B162342-BLK1	ND	ug/m3	5.0	0.31		2
cis-1,2-Dichloroethene	B162342-BLK1	ND	ug/m3	2.0	0.32		2
trans-1,2-Dichloroethene	B162342-BLK1	ND	ug/m3	2.0	0.27		2
1,2-Dichloropropane	B162342-BLK1	ND	ug/m3	5.0	0.32		2
cis-1,3-Dichloropropene	B162342-BLK1	ND	ug/m3	5.0	0.30		2
trans-1,3-Dichloropropene	B162342-BLK1	ND	ug/m3	5.0	0.40		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162342-BLK1	ND	ug/m3	5.0	0.91		2
1,1-Difluoroethane	B162342-BLK1	ND	ug/m3	5.0	2.0		2
1,4-Dioxane	B162342-BLK1	ND	ug/m3	2.0	0.33		2
Ethanol	B162342-BLK1	ND	ug/m3	2.0	0.42		2

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Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162342							
Ethyl acetate	B162342-BLK1	ND	ug/m3	2.0	0.33		2
Ethylbenzene	B162342-BLK1	ND	ug/m3	5.0	0.32		2
1-Ethyl-4-methylbenzene	B162342-BLK1	ND	ug/m3	5.0	0.30		2
n-Heptane	B162342-BLK1	ND	ug/m3	2.0	0.34		2
Hexachlorobutadiene	B162342-BLK1	ND	ug/m3	10	1.5		2
Hexane	B162342-BLK1	ND	ug/m3	5.0	0.20		2
2-Hexanone	B162342-BLK1	ND	ug/m3	5.0	0.29		2
Isopropyl alcohol	B162342-BLK1	ND	ug/m3	2.0	0.32		2
Methylene chloride	B162342-BLK1	ND	ug/m3	10	0.40		2
Methyl ethyl ketone	B162342-BLK1	ND	ug/m3	2.0	0.19		2
Methyl isobutyl ketone	B162342-BLK1	ND	ug/m3	5.0	0.26		2
Methyl t-butyl ether	B162342-BLK1	ND	ug/m3	2.0	0.28		2
Propylene	B162342-BLK1	ND	ug/m3	2.0	0.25		2
Styrene	B162342-BLK1	ND	ug/m3	5.0	0.24		2
1,1,2,2-Tetrachloroethane	B162342-BLK1	ND	ug/m3	5.0	0.47		2
Tetrachloroethene	B162342-BLK1	ND	ug/m3	2.0	0.50		2
Tetrahydrofuran	B162342-BLK1	ND	ug/m3	2.0	0.27		2
Toluene	B162342-BLK1	ND	ug/m3	2.0	0.27		2
1,2,4-Trichlorobenzene	B162342-BLK1	ND	ug/m3	10	0.82		2
1,1,1-Trichloroethane	B162342-BLK1	ND	ug/m3	5.0	0.39		2
1,1,2-Trichloroethane	B162342-BLK1	ND	ug/m3	5.0	0.61		2
Trichloroethene	B162342-BLK1	ND	ug/m3	2.0	0.54		2
Trichlorofluoromethane	B162342-BLK1	ND	ug/m3	5.0	0.47		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B162342-BLK1	ND	ug/m3	5.0	0.55		2
1,2,4-Trimethylbenzene	B162342-BLK1	ND	ug/m3	5.0	0.40		2
1,3,5-Trimethylbenzene	B162342-BLK1	ND	ug/m3	5.0	0.40		2
Vinyl acetate	B162342-BLK1	ND	ug/m3	2.0	0.33		2
Vinyl chloride	B162342-BLK1	ND	ug/m3	2.0	0.39		2
p- & m-Xylenes	B162342-BLK1	ND	ug/m3	5.0	0.61		2
o-Xylene	B162342-BLK1	ND	ug/m3	5.0	0.30		2
Total Xylenes	B162342-BLK1	ND	ug/m3	10	0.91		2
4-Bromofluorobenzene (Surrogate)	B162342-BLK1	93.5	%	70 - 130 (LCL - UCL)			2

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Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161688-BLK1	PB	EPA-TO-15-SIM	03/10/23	03/10/23 19:12	BEP	MS-A2	1
2	B162342-BLK1	PB	EPA-TO-15	03/21/23	03/21/23 20:56	BEP	MS-A2	1

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Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161688											
Benzene	B161688-BS1	LCS	0.26261	0.31948	ug/m3	82.2		70 - 130			1
	B161688-BSD1	LCSD	0.26219	0.31948	ug/m3	82.1	0.2	70 - 130	30		2
Benzyl chloride	B161688-BS1	LCS	0.37985	0.51772	ug/m3	73.4		70 - 130		J	1
	B161688-BSD1	LCSD	0.40237	0.51772	ug/m3	77.7	5.8	70 - 130	30	J	2
Carbon tetrachloride	B161688-BS1	LCS	0.58522	0.62913	ug/m3	93.0		70 - 130			1
	B161688-BSD1	LCSD	0.58314	0.62913	ug/m3	92.7	0.4	70 - 130	30		2
Chlorobenzene	B161688-BS1	LCS	0.40617	0.46036	ug/m3	88.2		70 - 130			1
	B161688-BSD1	LCSD	0.41147	0.46036	ug/m3	89.4	1.3	70 - 130	30		2
Chloroform	B161688-BS1	LCS	0.44309	0.48825	ug/m3	90.8		70 - 130			1
	B161688-BSD1	LCSD	0.44709	0.48825	ug/m3	91.6	0.9	70 - 130	30		2
1,2-Dibromoethane	B161688-BS1	LCS	0.69758	0.76835	ug/m3	90.8		70 - 130			1
	B161688-BSD1	LCSD	0.70181	0.76835	ug/m3	91.3	0.6	70 - 130	30		2
1,2-Dichlorobenzene	B161688-BS1	LCS	0.53913	0.60124	ug/m3	89.7		70 - 130			1
	B161688-BSD1	LCSD	0.55488	0.60124	ug/m3	92.3	2.9	70 - 130	30		2
1,3-Dichlorobenzene	B161688-BS1	LCS	0.54009	0.60124	ug/m3	89.8		70 - 130			1
	B161688-BSD1	LCSD	0.56246	0.60124	ug/m3	93.5	4.1	70 - 130	30		2
1,4-Dichlorobenzene	B161688-BS1	LCS	0.59390	0.60124	ug/m3	98.8		70 - 130			1
	B161688-BSD1	LCSD	0.56696	0.60124	ug/m3	94.3	4.6	70 - 130	30		2
1,1-Dichloroethane	B161688-BS1	LCS	0.35508	0.40474	ug/m3	87.7		70 - 130			1
	B161688-BSD1	LCSD	0.35156	0.40474	ug/m3	86.9	1.0	70 - 130	30		2
1,2-Dichloroethane	B161688-BS1	LCS	0.36406	0.40474	ug/m3	89.9		70 - 130			1
	B161688-BSD1	LCSD	0.36597	0.40474	ug/m3	90.4	0.5	70 - 130	30		2
1,1-Dichloroethene	B161688-BS1	LCS	0.33095	0.39649	ug/m3	83.5		70 - 130			1
	B161688-BSD1	LCSD	0.33230	0.39649	ug/m3	83.8	0.4	70 - 130	30		2
cis-1,2-Dichloroethene	B161688-BS1	LCS	0.32905	0.39649	ug/m3	83.0		70 - 130			1
	B161688-BSD1	LCSD	0.33171	0.39649	ug/m3	83.7	0.8	70 - 130	30		2
Methylene chloride	B161688-BS1	LCS	0.32879	0.34737	ug/m3	94.7		70 - 130			1
	B161688-BSD1	LCSD	0.32473	0.34737	ug/m3	93.5	1.2	70 - 130	30		2
Tetrachloroethene	B161688-BS1	LCS	0.60622	0.67825	ug/m3	89.4		70 - 130			1
	B161688-BSD1	LCSD	0.61029	0.67825	ug/m3	90.0	0.7	70 - 130	30		2
Toluene	B161688-BS1	LCS	0.31165	0.37684	ug/m3	82.7		70 - 130			1
	B161688-BSD1	LCSD	0.31026	0.37684	ug/m3	82.3	0.4	70 - 130	30		2
1,1,1-Trichloroethane	B161688-BS1	LCS	0.50061	0.54562	ug/m3	91.8		70 - 130			1
	B161688-BSD1	LCSD	0.49979	0.54562	ug/m3	91.6	0.2	70 - 130	30		2
1,1,2-Trichloroethane	B161688-BS1	LCS	0.49242	0.54562	ug/m3	90.3		70 - 130			1
	B161688-BSD1	LCSD	0.50104	0.54562	ug/m3	91.8	1.7	70 - 130	30		2

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Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161688											
Trichloroethene	B161688-BS1	LCS	0.46811	0.53737	ug/m3	87.1		70 - 130			1
	B161688-BSD1	LCSD	0.47622	0.53737	ug/m3	88.6	1.7	70 - 130	30		2
Vinyl chloride	B161688-BS1	LCS	0.26086	0.25562	ug/m3	102		70 - 130			1
	B161688-BSD1	LCSD	0.24767	0.25562	ug/m3	96.9	5.2	70 - 130	30		2
p- & m-Xylenes	B161688-BS1	LCS	0.74203	0.86843	ug/m3	85.4		70 - 130			1
	B161688-BSD1	LCSD	0.73890	0.86843	ug/m3	85.1	0.4	70 - 130	30		2
o-Xylene	B161688-BS1	LCS	0.36126	0.43421	ug/m3	83.2		70 - 130			1
	B161688-BSD1	LCSD	0.36309	0.43421	ug/m3	83.6	0.5	70 - 130	30		2
Total Xylenes	B161688-BS1	LCS	1.1033	1.3026	ug/m3	84.7		70 - 130			1
	B161688-BSD1	LCSD	1.1020	1.3026	ug/m3	84.6	0.1	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161688-BS1	LCS	3.61	3.58	ug/m3	101		50 - 150			1
	B161688-BSD1	LCSD	3.65	3.58	ug/m3	102	1.1	50 - 150			2
QC Batch ID: B162342											
Benzene	B162342-BS1	LCS	15.622	15.974	ug/m3	97.8		70 - 130			3
	B162342-BSD1	LCSD	15.431	15.974	ug/m3	96.6	1.2	70 - 130	30		4
Chloroform	B162342-BS1	LCS	23.094	24.413	ug/m3	94.6		70 - 130			3
	B162342-BSD1	LCSD	22.997	24.413	ug/m3	94.2	0.4	70 - 130	30		4
Ethylbenzene	B162342-BS1	LCS	21.884	21.711	ug/m3	101		70 - 130			3
	B162342-BSD1	LCSD	21.537	21.711	ug/m3	99.2	1.6	70 - 130	30		4
Tetrachloroethene	B162342-BS1	LCS	33.167	33.913	ug/m3	97.8		70 - 130			3
	B162342-BSD1	LCSD	32.692	33.913	ug/m3	96.4	1.4	70 - 130	30		4
Toluene	B162342-BS1	LCS	18.842	18.842	ug/m3	100		70 - 130			3
	B162342-BSD1	LCSD	18.767	18.842	ug/m3	99.6	0.4	70 - 130	30		4
Trichloroethene	B162342-BS1	LCS	26.009	26.869	ug/m3	96.8		70 - 130			3
	B162342-BSD1	LCSD	26.009	26.869	ug/m3	96.8	0	70 - 130	30		4
Trichlorofluoromethane	B162342-BS1	LCS	26.856	28.092	ug/m3	95.6		70 - 130			3
	B162342-BSD1	LCSD	26.743	28.092	ug/m3	95.2	0.4	70 - 130	30		4
1,1,2-Trichloro-1,2,2-trifluoroethane	B162342-BS1	LCS	36.709	38.318	ug/m3	95.8		70 - 130			3
	B162342-BSD1	LCSD	36.785	38.318	ug/m3	96.0	0.2	70 - 130	30		4
p- & m-Xylenes	B162342-BS1	LCS	45.375	43.421	ug/m3	104		70 - 130			3
	B162342-BSD1	LCSD	45.245	43.421	ug/m3	104	0.3	70 - 130	30		4
o-Xylene	B162342-BS1	LCS	22.579	21.711	ug/m3	104		70 - 130			3
	B162342-BSD1	LCSD	22.405	21.711	ug/m3	103	0.8	70 - 130	30		4
Total Xylenes	B162342-BS1	LCS	67.954	65.132	ug/m3	104		70 - 130			3
	B162342-BSD1	LCSD	67.650	65.132	ug/m3	104	0.4	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B162342-BS1	LCS	71.2	71.6	ug/m3	99.5		70 - 130			3
	B162342-BSD1	LCSD	71.3	71.6	ug/m3	99.6	0.1	70 - 130			4

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:19
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161688-BS1	LCS	EPA-TO-15-SIM	03/10/23	03/10/23 17:58	BEP	MS-A2	1
2	B161688-BSD1	LCSD	EPA-TO-15-SIM	03/10/23	03/10/23 18:37	BEP	MS-A2	1
3	B162342-BS1	LCS	EPA-TO-15	03/21/23	03/21/23 19:39	BEP	MS-A2	1
4	B162342-BSD1	LCSD	EPA-TO-15	03/21/23	03/21/23 20:20	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B162452

Methane (CH4)	B162452-BLK1	ND	ppmv	2.0	1.8		1
---------------	--------------	----	------	-----	-----	--	---

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162452-BLK1	PB	ASTM-D1946	03/22/23	03/22/23 17:17	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162452											
Methane (CH4)	B162452-BS1	LCS	19118	18000	ppmv	106		70 - 130			1
	B162452-BSD1	LCSD	19111	18000	ppmv	106	0.0	70 - 130	30		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162452-BS1	LCS	ASTM-D1946	03/22/23	03/22/23	16:36	RMK	GC-A1	1
2	B162452-BSD1	LCSD	ASTM-D1946	03/22/23	03/22/23	16:57	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:19
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

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



Date of Report: 04/04/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2306331
Invoice ID: B472941

Enclosed are the results of analyses for samples received by the laboratory on 3/30/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / Analytical Requi

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed a **2306331**

Page: 1 of 1

Section A Required Client Information
 Company: Roux
 Address: 5150 E. Pacific Coast Hwy. Ste 450
 Long Beach, CA 20904
 Email To: anicgure@rouxinc.com
 Phone: 562-448-8624 Fax:
 Requested Due Date/TAT: 3/5/13 Sub Analytical

Section C Invoice Information
 Attention: Roux Accounts Payable (rouxap@rouxinc.com)
 Company Name: Roux
 Address: 5150 E. Pacific Coast Hwy. Ste. 450, Long Beach, CA 90804
 Pace Quote Reference: 00132481 & 00132633
 Pace Project Manager/Sales Rep: Brianas Schutts / Dawn Gisor
 Pace Profile #:

Section B Required Project Information:
 Report To: April McGuire
 Copy To:
 Project Name: City Terrace
 Project Number: 2855

Section D Required Client Information
AIR SAMPLE ID
 Sample IDs MUST BE UNIQUE
 AA-24-1
 IA-24-1
 IA-24-2

ITEM #	MEDIA CODE	PFD Reading (Client only)	COLLECTED		Summa Can Number	Flow Control Number	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
			DATE	TIME								
1	6LL		3/28/13	1416	31235	1235	1450			3/30/13	1049	Temp in C
2	6LL		1451	1234	660	32						Received on
3	6LL		1450	1113	442	0						Ice
4												Sealed Cooler
5												Custody
6												Temp in C
7												Samples Present
8												Y/N
9												Y/N
10												Y/N
11												Y/N
12												Y/N

Method: M10
 TOA (Fined Gas %)
 TOA (Methane)
 TOA (PM10)
 TOA (PM2.5)
 TOA (SO2)
 TOA (SO4)
 TOA (NOx)
 TOA (VOCs)
 TOA (SVOCs)
 TOA (PAHs)
 TOA (Other)
 TOA (Lead)

REPORT LEVEL: I, II, III, IV, Other

Program:
 UST
 Superfund
 Emissions
 Clean Air Act
 Voluntary Clean Up
 Dry Clean
 RCRA
 Other

Location of Sampling by State: CA
 CA
 CO
 CT
 DC
 DE
 FL
 GA
 HI
 IA
 IL
 IN
 KS
 KY
 LA
 MA
 MD
 MI
 MN
 MO
 MS
 MT
 NC
 ND
 NH
 NJ
 NM
 NV
 NY
 OH
 OK
 OR
 PA
 RI
 SC
 SD
 TN
 TX
 VA
 VT
 WA
 WI
 WV
 WY
 Other

Method: M10
 TOA (Fined Gas %)
 TOA (Methane)
 TOA (PM10)
 TOA (PM2.5)
 TOA (SO2)
 TOA (SO4)
 TOA (NOx)
 TOA (VOCs)
 TOA (SVOCs)
 TOA (PAHs)
 TOA (Other)
 TOA (Lead)

Temp in C:

Received on: 3/30/13
Time: 1049

ACCEPTED BY / AFFILIATION: *Blair J. ...*

DATE: 3/30/13
TIME: 1330

SAMPLER NAME AND SIGNATURE: Travis Gier
 Date Signed: 03/29/13

REINQUISHED BY / AFFILIATION: *Travis Gier*

DATE: 03/28/13
TIME: 1451

Comments:
 Let report needed by 03/31; if not possible, then as soon as possible thereafter

CHK BY: M10
DISTRIBUTION:
SUB-OUT:

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386
 FCC46Rev 01, 03F#02010

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page	Of						
Submission #: <u>23-06331</u>											
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S						
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Sunma</u> Thermometer ID: _____ Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Date/Time <u>3-30-23</u> Analyst Init <u>JCR-1049</u>							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr ⁴											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOYAL SULFIDE											
3oz NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
P _A PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL - 501											
QT EPA 503GOS.3/8881A											
QT EPA 515.1/8151A											
QT EPA 525.2											
QT EPA 525.2 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548.1											
QT EPA 519.2											
QT EPA 8015M											
QT EPA 8170C											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz IAR											
SOIL SIEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUNMA CANISTER		<u>6L</u>	<u>A</u>	<u>A</u>	<u>A</u>						

Comments: _____
 Sample Numbering Completed By: THZ Date/Time: 3/30/23 1541
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 15:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2306331-01	COC Number:	---	Receive Date:	03/30/2023 10:49
	Project Number:	---	Sampling Date:	03/29/2023 12:35
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AA-24-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2306331-02	COC Number:	---	Receive Date:	03/30/2023 10:49
	Project Number:	---	Sampling Date:	03/29/2023 12:34
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-24-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2306331-03	COC Number:	---	Receive Date:	03/30/2023 10:49
	Project Number:	---	Sampling Date:	03/29/2023 11:13
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-24-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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 Long Beach, CA 90804

Reported: 04/04/2023 15:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306331-01		Client Sample Name: AA-24-1, 3/29/2023 12:35:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	6.3	ug/m3	5.0	0.43	EPA-TO-15	ND	A01	1
Acetone	6.4	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND	A01	1
Benzene	0.96	ug/m3	2.0	0.21	EPA-TO-15	ND	J,A01	1
Benzene	1.1	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
Chloromethane	0.95	ug/m3	2.0	0.21	EPA-TO-15	ND	J,A01	1
Cyclohexane	1.3	ug/m3	2.0	0.38	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.0	ug/m3	5.0	0.45	EPA-TO-15	ND	J,A01	1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2

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4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.pacelabs.com



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 15:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306331-01		Client Sample Name: AA-24-1, 3/29/2023 12:35:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND	A01	1
Ethanol	3.5	ug/m3	2.0	0.42	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND	A01	1
Ethylbenzene	0.48	ug/m3	5.0	0.32	EPA-TO-15	ND	J,A01	1
Ethylbenzene	0.42	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND	A01	1
n-Heptane	1.9	ug/m3	2.0	0.34	EPA-TO-15	ND	J,A01	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND	A01	1
Hexane	7.2	ug/m3	5.0	0.20	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND	A01	1
Isopropyl alcohol	1.9	ug/m3	2.0	0.32	EPA-TO-15	ND	J,A01	1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Methyl ethyl ketone	0.59	ug/m3	2.0	0.19	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 15:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306331-01		Client Sample Name: AA-24-1, 3/29/2023 12:35:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	1
Toluene	1.6	ug/m3	2.0	0.27	EPA-TO-15	ND	J,A01	1
Toluene	1.6	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.2	ug/m3	5.0	0.47	EPA-TO-15	ND	J,A01	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	1.8	ug/m3	5.0	0.61	EPA-TO-15	ND	J,A01	1
p- & m-Xylenes	1.7	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	0.52	ug/m3	5.0	0.30	EPA-TO-15	ND	J,A01	1
o-Xylene	0.47	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	2.3	ug/m3	10	0.91	EPA-TO-15	ND	J,A01	1
Total Xylenes	2.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	97.9	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	101	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/04/2023 15:10
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306331-01	Client Sample Name: AA-24-1, 3/29/2023 12:35:00PM, Client								
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/30/23 13:16	03/31/23 10:38	BEP	MS-A2	1	B163114	EPA TO-15	
2	EPA-TO-15-SIM	03/31/23 08:52	03/31/23 15:01	BEP	MS-A1	1	B163120	EPA TO-15	

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
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 Long Beach, CA 90804

Reported: 04/04/2023 15:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2306331-01	Client Sample Name: AA-24-1, 3/29/2023 12:35:00PM, Client
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	34	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/30/23 23:00	03/30/23 23:20	RMK	GC-A1	1	B163119	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 15:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306331-02 **Client Sample Name:** IA-24-1, 3/29/2023 12:34:00PM, Client

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	26	ug/m3	5.0	0.43	EPA-TO-15	ND	A01	1
Acetone	27	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND	A01	1
Benzene	0.70	ug/m3	2.0	0.21	EPA-TO-15	ND	J,A01	1
Benzene	0.76	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND	A01	1
Carbon tetrachloride	0.71	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND	A01	1
Chloroform	0.88	ug/m3	5.0	0.54	EPA-TO-15	ND	J,A01	1
Chloroform	0.98	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.3	ug/m3	2.0	0.21	EPA-TO-15	ND	J,A01	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	3.1	ug/m3	5.0	0.50	EPA-TO-15	ND	J,A01	1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.0	ug/m3	5.0	0.45	EPA-TO-15	ND	J,A01	1
Dichlorodifluoromethane	2.6	ug/m3	1.0	0.10	EPA-TO-15-SIM	ND	A01	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 15:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306331-02		Client Sample Name: IA-24-1, 3/29/2023 12:34:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND	A01	1
Ethanol	120	ug/m3	2.0	0.42	EPA-TO-15	ND	A01	1
Ethyl acetate	7.6	ug/m3	2.0	0.33	EPA-TO-15	ND	A01	1
Ethylbenzene	0.52	ug/m3	5.0	0.32	EPA-TO-15	ND	J,A01	1
Ethylbenzene	0.46	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND	A01	1
n-Heptane	0.78	ug/m3	2.0	0.34	EPA-TO-15	ND	J,A01	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND	A01	1
Hexane	2.1	ug/m3	5.0	0.20	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND	A01	1
Isopropyl alcohol	390	ug/m3	2.0	0.32	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.4	ug/m3	2.0	0.19	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 15:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306331-02		Client Sample Name: IA-24-1, 3/29/2023 12:34:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	1
Toluene	1.9	ug/m3	2.0	0.27	EPA-TO-15	ND	J,A01	1
Toluene	2.0	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.1	ug/m3	5.0	0.47	EPA-TO-15	ND	J,A01	1
Trichlorofluoromethane	1.7	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.7	ug/m3	5.0	0.61	EPA-TO-15	ND	J,A01	1
p- & m-Xylenes	1.7	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.56	ug/m3	5.0	0.30	EPA-TO-15	ND	J,A01	1
o-Xylene	0.55	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	2.2	ug/m3	10	0.91	EPA-TO-15	ND	J,A01	1
Total Xylenes	2.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	97.1	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	96.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	107	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 15:10
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306331-02		Client Sample Name: IA-24-1, 3/29/2023 12:34:00PM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/30/23 13:16	03/31/23 11:24	BEP	MS-A2	1	B163114	EPA TO-15	
2	EPA-TO-15-SIM	03/31/23 08:52	03/31/23 16:46	BEP	MS-A1	20	B163120	EPA TO-15	
3	EPA-TO-15-SIM	03/31/23 08:52	03/31/23 15:38	BEP	MS-A1	1	B163120	EPA TO-15	

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 15:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2306331-02	Client Sample Name: IA-24-1, 3/29/2023 12:34:00PM, Client
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.3	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	ASTM-D1946	03/30/23	23:00	03/30/23	23:40	RMK	GC-A1	1	B163119	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 15:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306331-03		Client Sample Name: IA-24-2, 3/29/2023 11:13:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	21	ug/m3	5.0	0.43	EPA-TO-15	ND	A01	1
Acetone	25	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND	A01	1
Benzene	0.54	ug/m3	2.0	0.21	EPA-TO-15	ND	J,A01	1
Benzene	0.65	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND	A01	1
Carbon tetrachloride	0.71	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND	A01	1
Chloroform	0.78	ug/m3	5.0	0.54	EPA-TO-15	ND	J,A01	1
Chloroform	0.90	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.2	ug/m3	2.0	0.21	EPA-TO-15	ND	J,A01	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	4.3	ug/m3	5.0	0.50	EPA-TO-15	ND	J,A01	1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	1.9	ug/m3	5.0	0.45	EPA-TO-15	ND	J,A01	1
Dichlorodifluoromethane	3.0	ug/m3	1.0	0.10	EPA-TO-15-SIM	ND	A01	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 15:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306331-03		Client Sample Name: IA-24-2, 3/29/2023 11:13:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	0.48	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND	A01	1
Ethanol	110	ug/m3	2.0	0.42	EPA-TO-15	ND	A01	1
Ethyl acetate	3.6	ug/m3	2.0	0.33	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND	A01	1
Ethylbenzene	0.38	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND	A01	1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND	A01	1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND	A01	1
Isopropyl alcohol	420	ug/m3	2.0	0.32	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.8	ug/m3	2.0	0.19	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND	A01	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 15:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306331-03		Client Sample Name: IA-24-2, 3/29/2023 11:13:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	1
Toluene	1.8	ug/m3	2.0	0.27	EPA-TO-15	ND	J,A01	1
Toluene	2.4	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.0	ug/m3	5.0	0.47	EPA-TO-15	ND	J,A01	1
Trichlorofluoromethane	1.7	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.64	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.3	ug/m3	5.0	0.61	EPA-TO-15	ND	J,A01	1
p- & m-Xylenes	1.5	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.48	ug/m3	5.0	0.30	EPA-TO-15	ND	J,A01	1
o-Xylene	0.53	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	1.8	ug/m3	10	0.91	EPA-TO-15	ND	J,A01	1
Total Xylenes	2.0	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	97.3	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	86.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	116	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Reported: 04/04/2023 15:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306331-03		Client Sample Name: IA-24-2, 3/29/2023 11:13:00AM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/30/23 13:16	03/31/23 12:07	BEP	MS-A2	1	B163114	EPA TO-15	
2	EPA-TO-15-SIM	03/31/23 08:52	03/31/23 17:18	BEP	MS-A1	20	B163120	EPA TO-15	
3	EPA-TO-15-SIM	03/31/23 08:52	03/31/23 16:15	BEP	MS-A1	1	B163120	EPA TO-15	

DCN = Data Continuation Number

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Reported: 04/04/2023 15:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2306331-03	Client Sample Name: IA-24-2, 3/29/2023 11:13:00AM, Client
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	4.6	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/30/23 23:00	03/31/23 00:00	RMK	GC-A1	1	B163119	No Prep

DCN = Data Continuation Number

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Reported: 04/04/2023 15:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163114							
Acetone	B163114-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B163114-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B163114-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B163114-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B163114-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B163114-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B163114-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B163114-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B163114-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B163114-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B163114-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B163114-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B163114-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B163114-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B163114-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B163114-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B163114-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B163114-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B163114-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B163114-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B163114-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B163114-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B163114-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B163114-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B163114-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B163114-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B163114-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B163114-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B163114-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B163114-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B163114-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B163114-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B163114-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B163114-BLK1	ND	ug/m3	2.0	0.42		1

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 Long Beach, CA 90804

Reported: 04/04/2023 15:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163114							
Ethyl acetate	B163114-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B163114-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B163114-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B163114-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B163114-BLK1	ND	ug/m3	10	1.5		1
Hexane	B163114-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B163114-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B163114-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B163114-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B163114-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B163114-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B163114-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B163114-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B163114-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B163114-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B163114-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B163114-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B163114-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B163114-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B163114-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B163114-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B163114-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B163114-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B163114-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B163114-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B163114-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B163114-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B163114-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B163114-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B163114-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B163114-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B163114-BLK1	91.0	%	70 - 130 (LCL - UCL)			1
QC Batch ID: B163120							

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 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163120							
Acetone	B163120-BLK1	ND	ug/m3	1.0	0.0075		2
Benzene	B163120-BLK1	ND	ug/m3	0.050	0.0032		2
Benzyl chloride	B163120-BLK1	ND	ug/m3	0.50	0.0052		2
Carbon tetrachloride	B163120-BLK1	ND	ug/m3	0.20	0.0063		2
Chlorobenzene	B163120-BLK1	ND	ug/m3	0.10	0.0079		2
Chloroform	B163120-BLK1	ND	ug/m3	0.050	0.0058		2
1,2-Dibromoethane	B163120-BLK1	ND	ug/m3	0.20	0.014		2
1,2-Dichlorobenzene	B163120-BLK1	ND	ug/m3	0.20	0.011		2
1,3-Dichlorobenzene	B163120-BLK1	ND	ug/m3	0.20	0.013		2
1,4-Dichlorobenzene	B163120-BLK1	ND	ug/m3	0.20	0.016		2
Dichlorodifluoromethane	B163120-BLK1	ND	ug/m3	0.050	0.0052		2
1,1-Dichloroethane	B163120-BLK1	ND	ug/m3	0.050	0.0041		2
1,2-Dichloroethane	B163120-BLK1	ND	ug/m3	0.10	0.0046		2
1,1-Dichloroethene	B163120-BLK1	ND	ug/m3	0.050	0.0078		2
cis-1,2-Dichloroethene	B163120-BLK1	ND	ug/m3	0.050	0.0044		2
trans-1,2-Dichloroethene	B163120-BLK1	ND	ug/m3	0.050	0.0075		2
trans-1,3-Dichloropropene	B163120-BLK1	ND	ug/m3	0.050	0.013		2
1,1-Difluoroethane	B163120-BLK1	ND	ug/m3	5.0	0.0027		2
Ethylbenzene	B163120-BLK1	ND	ug/m3	0.050	0.017		2
Methylene chloride	B163120-BLK1	ND	ug/m3	0.20	0.0077		2
Tetrachloroethene	B163120-BLK1	ND	ug/m3	0.10	0.011		2
Toluene	B163120-BLK1	ND	ug/m3	0.10	0.0062		2
1,1,1-Trichloroethane	B163120-BLK1	ND	ug/m3	0.10	0.0055		2
1,1,2-Trichloroethane	B163120-BLK1	ND	ug/m3	0.10	0.0055		2
Trichloroethene	B163120-BLK1	ND	ug/m3	0.10	0.0095		2
Trichlorofluoromethane	B163120-BLK1	ND	ug/m3	0.050	0.0057		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B163120-BLK1	ND	ug/m3	0.10	0.0078		2
Vinyl chloride	B163120-BLK1	ND	ug/m3	0.020	0.0046		2
p- & m-Xylenes	B163120-BLK1	ND	ug/m3	0.050	0.0082		2
o-Xylene	B163120-BLK1	ND	ug/m3	0.050	0.0044		2
Total Xylenes	B163120-BLK1	ND	ug/m3	0.10	0.013		2
4-Bromofluorobenzene (Surrogate)	B163120-BLK1	89.7	%	50 - 150 (LCL - UCL)			2

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/04/2023 15:10
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
2	B163120-BLK1	PB	EPA-TO-15-SIM	03/30/23	03/31/23 11:04	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 15:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B163114											
Benzene	B163114-BS1	LCS	15.878	15.974	ug/m3	99.4		70 - 130			1
	B163114-BSD1	LCSD	15.846	15.974	ug/m3	99.2	0.2	70 - 130	30		2
Chloroform	B163114-BS1	LCS	23.436	24.413	ug/m3	96.0		70 - 130			1
	B163114-BSD1	LCSD	23.241	24.413	ug/m3	95.2	0.8	70 - 130	30		2
Ethylbenzene	B163114-BS1	LCS	22.883	21.711	ug/m3	105		70 - 130			1
	B163114-BSD1	LCSD	23.057	21.711	ug/m3	106	0.8	70 - 130	30		2
Tetrachloroethene	B163114-BS1	LCS	34.116	33.913	ug/m3	101		70 - 130			1
	B163114-BSD1	LCSD	34.591	33.913	ug/m3	102	1.4	70 - 130	30		2
Toluene	B163114-BS1	LCS	19.332	18.842	ug/m3	103		70 - 130			1
	B163114-BSD1	LCSD	19.445	18.842	ug/m3	103	0.6	70 - 130	30		2
Trichloroethene	B163114-BS1	LCS	27.191	26.869	ug/m3	101		70 - 130			1
	B163114-BSD1	LCSD	27.245	26.869	ug/m3	101	0.2	70 - 130	30		2
Trichlorofluoromethane	B163114-BS1	LCS	27.024	28.092	ug/m3	96.2		70 - 130			1
	B163114-BSD1	LCSD	26.856	28.092	ug/m3	95.6	0.6	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B163114-BS1	LCS	37.475	38.318	ug/m3	97.8		70 - 130			1
	B163114-BSD1	LCSD	37.552	38.318	ug/m3	98.0	0.2	70 - 130	30		2
p- & m-Xylenes	B163114-BS1	LCS	46.548	43.421	ug/m3	107		70 - 130			1
	B163114-BSD1	LCSD	46.765	43.421	ug/m3	108	0.5	70 - 130	30		2
o-Xylene	B163114-BS1	LCS	22.926	21.711	ug/m3	106		70 - 130			1
	B163114-BSD1	LCSD	23.100	21.711	ug/m3	106	0.8	70 - 130	30		2
Total Xylenes	B163114-BS1	LCS	69.474	65.132	ug/m3	107		70 - 130			1
	B163114-BSD1	LCSD	69.865	65.132	ug/m3	107	0.6	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B163114-BS1	LCS	72.4	71.6	ug/m3	101		70 - 130			1
	B163114-BSD1	LCSD	72.9	71.6	ug/m3	102	0.7	70 - 130			2
QC Batch ID: B163120											
Benzene	B163120-BS1	LCS	0.33213	0.31948	ug/m3	104		70 - 130			3
	B163120-BSD1	LCSD	0.30369	0.31948	ug/m3	95.1	8.9	70 - 130	30		4
Benzyl chloride	B163120-BS1	LCS	0.61940	0.51772	ug/m3	120		70 - 130			3
	B163120-BSD1	LCSD	0.50193	0.51772	ug/m3	97.0	21.0	70 - 130	30		4
Carbon tetrachloride	B163120-BS1	LCS	0.63958	0.62913	ug/m3	102		70 - 130			3
	B163120-BSD1	LCSD	0.58434	0.62913	ug/m3	92.9	9.0	70 - 130	30		4
Chlorobenzene	B163120-BS1	LCS	0.48802	0.46036	ug/m3	106		70 - 130			3
	B163120-BSD1	LCSD	0.43545	0.46036	ug/m3	94.6	11.4	70 - 130	30		4
Chloroform	B163120-BS1	LCS	0.50437	0.48825	ug/m3	103		70 - 130			3
	B163120-BSD1	LCSD	0.45964	0.48825	ug/m3	94.1	9.3	70 - 130	30		4
1,2-Dibromoethane	B163120-BS1	LCS	0.81084	0.76835	ug/m3	106		70 - 130			3
	B163120-BSD1	LCSD	0.72686	0.76835	ug/m3	94.6	10.9	70 - 130	30		4

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 15:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B163120											
1,2-Dichlorobenzene	B163120-BS1	LCS	0.67849	0.60124	ug/m3	113		70 - 130			3
	B163120-BSD1	LCSD	0.57935	0.60124	ug/m3	96.4	15.8	70 - 130	30		4
1,3-Dichlorobenzene	B163120-BS1	LCS	0.73465	0.60124	ug/m3	122		70 - 130			3
	B163120-BSD1	LCSD	0.58500	0.60124	ug/m3	97.3	22.7	70 - 130	30		4
1,4-Dichlorobenzene	B163120-BS1	LCS	0.68409	0.60124	ug/m3	114		70 - 130			3
	B163120-BSD1	LCSD	0.57770	0.60124	ug/m3	96.1	16.9	70 - 130	30		4
1,1-Dichloroethane	B163120-BS1	LCS	0.40838	0.40474	ug/m3	101		70 - 130			3
	B163120-BSD1	LCSD	0.37394	0.40474	ug/m3	92.4	8.8	70 - 130	30		4
1,2-Dichloroethane	B163120-BS1	LCS	0.41045	0.40474	ug/m3	101		70 - 130			3
	B163120-BSD1	LCSD	0.37135	0.40474	ug/m3	91.8	10.0	70 - 130	30		4
1,1-Dichloroethene	B163120-BS1	LCS	0.40692	0.39649	ug/m3	103		70 - 130			3
	B163120-BSD1	LCSD	0.38785	0.39649	ug/m3	97.8	4.8	70 - 130	30		4
cis-1,2-Dichloroethene	B163120-BS1	LCS	0.40597	0.39649	ug/m3	102		70 - 130			3
	B163120-BSD1	LCSD	0.36196	0.39649	ug/m3	91.3	11.5	70 - 130	30		4
Methylene chloride	B163120-BS1	LCS	0.34967	0.34737	ug/m3	101		70 - 130			3
	B163120-BSD1	LCSD	0.31423	0.34737	ug/m3	90.5	10.7	70 - 130	30		4
Tetrachloroethene	B163120-BS1	LCS	0.67683	0.67825	ug/m3	99.8		70 - 130			3
	B163120-BSD1	LCSD	0.61986	0.67825	ug/m3	91.4	8.8	70 - 130	30		4
Toluene	B163120-BS1	LCS	0.37684	0.37684	ug/m3	100		70 - 130			3
	B163120-BSD1	LCSD	0.34696	0.37684	ug/m3	92.1	8.3	70 - 130	30		4
1,1,1-Trichloroethane	B163120-BS1	LCS	0.56281	0.54562	ug/m3	103		70 - 130			3
	B163120-BSD1	LCSD	0.51616	0.54562	ug/m3	94.6	8.6	70 - 130	30		4
1,1,2-Trichloroethane	B163120-BS1	LCS	0.53209	0.54562	ug/m3	97.5		70 - 130			3
	B163120-BSD1	LCSD	0.47840	0.54562	ug/m3	87.7	10.6	70 - 130	30		4
Trichloroethene	B163120-BS1	LCS	0.53082	0.53737	ug/m3	98.8		70 - 130			3
	B163120-BSD1	LCSD	0.49132	0.53737	ug/m3	91.4	7.7	70 - 130	30		4
Vinyl chloride	B163120-BS1	LCS	0.25533	0.25562	ug/m3	99.9		70 - 130			3
	B163120-BSD1	LCSD	0.23292	0.25562	ug/m3	91.1	9.2	70 - 130	30		4
p- & m-Xylenes	B163120-BS1	LCS	0.85948	0.86843	ug/m3	99.0		70 - 130			3
	B163120-BSD1	LCSD	0.78801	0.86843	ug/m3	90.7	8.7	70 - 130	30		4
o-Xylene	B163120-BS1	LCS	0.43104	0.43421	ug/m3	99.3		70 - 130			3
	B163120-BSD1	LCSD	0.39105	0.43421	ug/m3	90.1	9.7	70 - 130	30		4
Total Xylenes	B163120-BS1	LCS	1.2905	1.3026	ug/m3	99.1		70 - 130			3
	B163120-BSD1	LCSD	1.1791	1.3026	ug/m3	90.5	9.0	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B163120-BS1	LCS	3.91	3.58	ug/m3	109		50 - 150			3
	B163120-BSD1	LCSD	3.65	3.58	ug/m3	102	7.0	50 - 150			4

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/04/2023 15:10
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
3	B163120-BS1	LCS	EPA-TO-15-SIM	03/30/23	03/31/23 10:04	BEP	MS-A1	1
4	B163120-BSD1	LCSD	EPA-TO-15-SIM	03/30/23	03/31/23 10:36	BEP	MS-A1	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 15:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B163119

Methane (CH4)	B163119-BLK1	ND	ppmv	2.0	1.8		1
---------------	--------------	----	------	-----	-----	--	---

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B163119-BLK1	PB	ASTM-D1946	03/30/23	03/30/23 20:39	RMK	GC-A1	1

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 Long Beach, CA 90804

Reported: 04/04/2023 15:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B163119											
Methane (CH4)	B163119-BS1	LCS	19316	18000	ppmv	107		70 - 130			1
	B163119-BSD1	LCSD	19350	18000	ppmv	107	0.2	70 - 130	30		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B163119-BS1	LCS	ASTM-D1946	03/30/23	03/30/23	22:00	RMK	GC-A1	1
2	B163119-BSD1	LCSD	ASTM-D1946	03/30/23	03/30/23	22:20	RMK	GC-A1	1

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Long Beach, CA 90804

Reported: 04/04/2023 15:10
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

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



Date of Report: 04/13/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2306912
Invoice ID: B473580

Enclosed are the results of analyses for samples received by the laboratory on 4/6/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "BS", is positioned above a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", is positioned above a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / Analytical
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

RUSH!



2306912

23-06912

Section A Required Client Information: Company: Roux Address: 5150 E. Pacific Coast Hwy, Ste. 450 Long Beach, CA 90804 Email To: anroque@rouxinc.com Phone: 562-446-8624 Fax: 562-446-8624 Requested Due Date: 4/13/23		Section B Required Project Information: Report To: April McGuire Copy To: Purchase Order No.: Project Name: City Terrace Project Number: 2855		Section C Invoice Information: Attention: Roux Accounts Payable (rouxap@rouxinc.com) Company Name: Roux Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804 Pace Quote Reference: 00132481 & 00132833 Pace Project Manager/Sales Rep.: Brianna Schulte / Dawn Glaser Pace Profile #:		Page: 1 of 1 Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other Location of Sampling by State: CA Analytical Unit <input type="checkbox"/> PM10 <input type="checkbox"/> PM2.5 <input type="checkbox"/> PM10/PM2.5 <input type="checkbox"/> PM10/PM2.5/PM2.5													
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE ITEM # 1 21-21-1 2 21-21-2		MID Reading (Client only) MEDIA CODE 116 116		COLLECTED <table border="1"> <thead> <tr> <th>DATE</th> <th>TIME</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td>04/06/23</td> <td>13:53</td> <td>04/06/23</td> <td>14:02</td> </tr> <tr> <td>04/06/23</td> <td>15:11</td> <td>04/06/23</td> <td>13:55</td> </tr> </tbody> </table>		DATE	TIME	DATE	TIME	04/06/23	13:53	04/06/23	14:02	04/06/23	15:11	04/06/23	13:55	Flow Control Number 1395 1427	
DATE	TIME	DATE	TIME																
04/06/23	13:53	04/06/23	14:02																
04/06/23	15:11	04/06/23	13:55																
Canister Pressure (Initial Field - psig) -28 Canister Pressure (Final Field - psig) -5		Canister Pressure (Initial Field - psig) -30 Canister Pressure (Final Field - psig) -5		Summa Can Number 6340 5165		Method: TO-3 TO-3 (PMA) TO-4 (PMA) TO-13 (PMA) TO-14 TO-15 (SM) TO-15 (SM) Lab TO-15 (SM)													
Comments: 21-21-1 21-21-2		RELINQUISHED BY / AFFILIATION April McGuire / Roux DATE 04/06/23 TIME 16:00		ACCEPTED BY / AFFILIATION Brianna Schulte / Pace DATE 04/06/23 TIME 11:00		SAMPLE CONDITIONS Temp in °C Received on ice Custody Sealed Cooler Samples intact													
SAMPLER NAME AND SIGNATURE SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YYYY): 04/06/23		SAMPLER NAME AND SIGNATURE SIGNATURE of ANALYST: [Signature] DATE Signed (MM/DD/YYYY): 04/06/23		CHK BY: [Signature] DISTRIBUTION: AIR SUB-OUT:		Pace Lab ID													

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>								
Submission #: <u>23-06912</u>												
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S							
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____												
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>												
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUMMA</u> Thermometer ID: _____ Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Date/Time <u>4-6-23</u> Analyst Init <u>SMH/KOB</u>								
SAMPLE CONTAINERS			SAMPLE NUMBERS									
			1	2	3	4	5	6	7	8	9	10
OT PE UNPRES												
4oz / Sox / 16oz PE UNPRES												
2oz Cr ⁶												
OT INORGANIC CHEMICAL METALS												
INORGANIC CHEMICAL METALS 4oz / Sox / 16oz												
PT CYANIDE												
PT NITROGEN FORMS												
PT TOTAL SULFIDE												
2oz NITRATE / NITRITE												
PT TOTAL ORGANIC CARBON												
PT CHEMICAL OXYGEN DEMAND												
P1A PHENOLICS												
40ml VOA VIAL TRAVEL BLANK												
40ml VOA VIAL												
QT EPA 1664B												
PT ODOR												
RADIOLOGICAL												
BACTERIOLOGICAL												
40 ml VOA VIAL - 504												
QT EPA 505/605.3/8091A												
QT EPA 515.1/8151A												
QT EPA 525.2												
QT EPA 525.2 TRAVEL BLANK												
40ml EPA 547												
40ml EPA 531.1												
3oz EPA 548.1												
QT EPA 549.2												
QT EPA 891SM												
QT EPA 8270C												
8oz / 16oz / 32oz AMBER												
8oz / 16oz / 32oz JAR												
SOIL SLERVE												
PCB VIAL												
PLASTIC BAG												
TEDLAR BAG												
FERROUS IRON												
ENCORE												
SMART KIT												
SUMMA CANISTER <u>1.4</u>			<u>A</u>	<u>A</u>								

Comments: _____
 Sample Numbering Completed By: PA Date/Time: 4-6-23 12:50 PM 15:50
 A = Actual / C = Corrected

Rev 23 06/20/22

\\P\F\Doc\HardPace\LAB_DOC\COCS\ISS\AMR\REV 23



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/13/2023 9:32
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2306912-01	COC Number:	---	Receive Date:	04/06/2023 11:00
	Project Number:	---	Sampling Date:	04/05/2023 14:02
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-24-1	Lab Matrix:	Air
	Sampled By:	Travis Clow	Sample Type:	Vapor or Air
2306912-02	COC Number:	---	Receive Date:	04/06/2023 11:00
	Project Number:	---	Sampling Date:	04/05/2023 13:35
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-24-2	Lab Matrix:	Air
	Sampled By:	Travis Clow	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/13/2023 9:32
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306912-01		Client Sample Name: SV-24-1, 4/5/2023 2:02:00PM, Travis Clow						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	210	ug/m3	8.9	0.77	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.6	0.48	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.6	0.50	EPA-TO-15	ND	A01	1
Benzene	0.85	ug/m3	3.6	0.37	EPA-TO-15	ND	J,A01	1
Benzyl chloride	ND	ug/m3	18	0.46	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.9	0.80	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	18	1.5	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.6	0.84	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.6	0.39	EPA-TO-15	ND	A01	1
Carbon disulfide	17	ug/m3	3.6	0.34	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.9	0.80	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.9	0.71	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.6	0.94	EPA-TO-15	ND	A01	1
Chloroform	5.3	ug/m3	8.9	0.96	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.6	0.37	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	3.6	0.68	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	8.9	0.77	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.9	1.0	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.9	0.89	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.9	0.55	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.9	0.89	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.4	ug/m3	8.9	0.80	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.9	0.41	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.9	0.46	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.9	0.55	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.6	0.57	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.6	0.48	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.9	0.57	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.9	0.53	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.9	0.71	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.9	1.6	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.9	3.6	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.6	0.59	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/13/2023 9:32
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306912-01		Client Sample Name: SV-24-1, 4/5/2023 2:02:00PM, Travis Clow						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	26	ug/m3	3.6	0.75	EPA-TO-15	ND	A01	1
Ethyl acetate	5.5	ug/m3	3.6	0.59	EPA-TO-15	ND	A01	1
Ethylbenzene	4.9	ug/m3	8.9	0.57	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	8.9	0.53	EPA-TO-15	ND	A01	1
n-Heptane	ND	ug/m3	3.6	0.61	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	18	2.7	EPA-TO-15	ND	A01	1
Hexane	ND	ug/m3	8.9	0.36	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ug/m3	8.9	0.52	EPA-TO-15	ND	A01	1
Isopropyl alcohol	16	ug/m3	3.6	0.57	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	18	0.71	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	5.0	ug/m3	3.6	0.34	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	1.8	ug/m3	8.9	0.46	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.6	0.50	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.6	0.44	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	8.9	0.43	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.9	0.84	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.6	0.89	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.6	0.48	EPA-TO-15	ND	A01	1
Toluene	1.9	ug/m3	3.6	0.48	EPA-TO-15	ND	J,A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	18	1.5	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.9	0.69	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.9	1.1	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.6	0.96	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.4	ug/m3	8.9	0.84	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.9	0.98	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.2	ug/m3	8.9	0.71	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.9	0.71	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.6	0.59	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.6	0.69	EPA-TO-15	ND	A01	1
p- & m-Xylenes	23	ug/m3	8.9	1.1	EPA-TO-15	ND	A01	1
o-Xylene	7.1	ug/m3	8.9	0.53	EPA-TO-15	ND	J,A01	1
Total Xylenes	30	ug/m3	18	1.6	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	95.8	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/13/2023 9:32
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306912-01	Client Sample Name: SV-24-1, 4/5/2023 2:02:00PM, Travis Clow
----------------------------------	---

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	04/07/23 13:49	04/07/23 21:15	BEP	MS-A2	1.780	B163615 EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/13/2023 9:32
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306912-02		Client Sample Name: SV-24-2, 4/5/2023 1:35:00PM, Travis Clow						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	310	ug/m3	82	7.0	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	2
Allyl chloride	ND	ug/m3	3.3	0.46	EPA-TO-15	ND	A01	2
Benzene	1.5	ug/m3	3.3	0.34	EPA-TO-15	ND	J,A01	2
Benzyl chloride	ND	ug/m3	16	0.42	EPA-TO-15	ND	A01	2
Bromodichloromethane	ND	ug/m3	8.2	0.73	EPA-TO-15	ND	A01	2
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	2
Bromomethane	ND	ug/m3	3.3	0.77	EPA-TO-15	ND	A01	2
1,3-Butadiene	ND	ug/m3	3.3	0.36	EPA-TO-15	ND	A01	2
Carbon disulfide	6.5	ug/m3	3.3	0.31	EPA-TO-15	ND	A01	2
Carbon tetrachloride	ND	ug/m3	8.2	0.73	EPA-TO-15	ND	A01	2
Chlorobenzene	ND	ug/m3	8.2	0.65	EPA-TO-15	ND	A01	2
Chloroethane	ND	ug/m3	3.3	0.86	EPA-TO-15	ND	A01	2
Chloroform	1.5	ug/m3	8.2	0.88	EPA-TO-15	ND	J,A01	2
Chloromethane	ND	ug/m3	3.3	0.34	EPA-TO-15	ND	A01	2
Cyclohexane	ND	ug/m3	3.3	0.62	EPA-TO-15	ND	A01	2
Dibromochloromethane	ND	ug/m3	8.2	0.70	EPA-TO-15	ND	A01	2
1,2-Dibromoethane	ND	ug/m3	8.2	0.95	EPA-TO-15	ND	A01	2
1,2-Dichlorobenzene	ND	ug/m3	8.2	0.82	EPA-TO-15	ND	A01	2
1,3-Dichlorobenzene	ND	ug/m3	8.2	0.51	EPA-TO-15	ND	A01	2
1,4-Dichlorobenzene	ND	ug/m3	8.2	0.82	EPA-TO-15	ND	A01	2
Dichlorodifluoromethane	2.4	ug/m3	8.2	0.73	EPA-TO-15	ND	J,A01	2
1,1-Dichloroethane	ND	ug/m3	8.2	0.37	EPA-TO-15	ND	A01	2
1,2-Dichloroethane	ND	ug/m3	8.2	0.42	EPA-TO-15	ND	A01	2
1,1-Dichloroethene	ND	ug/m3	8.2	0.51	EPA-TO-15	ND	A01	2
cis-1,2-Dichloroethene	ND	ug/m3	3.3	0.52	EPA-TO-15	ND	A01	2
trans-1,2-Dichloroethene	ND	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	2
1,2-Dichloropropane	ND	ug/m3	8.2	0.52	EPA-TO-15	ND	A01	2
cis-1,3-Dichloropropene	ND	ug/m3	8.2	0.49	EPA-TO-15	ND	A01	2
trans-1,3-Dichloropropene	ND	ug/m3	8.2	0.65	EPA-TO-15	ND	A01	2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.2	1.5	EPA-TO-15	ND	A01	2
1,1-Difluoroethane	ND	ug/m3	8.2	3.3	EPA-TO-15	ND	A01	2
1,4-Dioxane	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/13/2023 9:32
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306912-02		Client Sample Name: SV-24-2, 4/5/2023 1:35:00PM, Travis Clow						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	33	ug/m3	3.3	0.68	EPA-TO-15	ND	A01	2
Ethyl acetate	5.8	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	2
Ethylbenzene	6.3	ug/m3	8.2	0.52	EPA-TO-15	ND	J,A01	2
1-Ethyl-4-methylbenzene	1.0	ug/m3	8.2	0.49	EPA-TO-15	ND	J,A01	2
n-Heptane	ND	ug/m3	3.3	0.55	EPA-TO-15	ND	A01	2
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	2
Hexane	ND	ug/m3	8.2	0.33	EPA-TO-15	ND	A01	2
2-Hexanone	ND	ug/m3	8.2	0.47	EPA-TO-15	ND	A01	2
Isopropyl alcohol	16	ug/m3	3.3	0.52	EPA-TO-15	ND	A01	2
Methylene chloride	ND	ug/m3	16	0.65	EPA-TO-15	ND	A01	2
Methyl ethyl ketone	13	ug/m3	3.3	0.31	EPA-TO-15	ND	A01	2
Methyl isobutyl ketone	1.9	ug/m3	8.2	0.42	EPA-TO-15	ND	J,A01	2
Methyl t-butyl ether	ND	ug/m3	3.3	0.46	EPA-TO-15	ND	A01	2
Propylene	6.2	ug/m3	3.3	0.41	EPA-TO-15	ND	A01	2
Styrene	ND	ug/m3	8.2	0.39	EPA-TO-15	ND	A01	2
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.2	0.77	EPA-TO-15	ND	A01	2
Tetrachloroethene	ND	ug/m3	3.3	0.82	EPA-TO-15	ND	A01	2
Tetrahydrofuran	ND	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	2
Toluene	3.4	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	2
1,1,1-Trichloroethane	ND	ug/m3	8.2	0.64	EPA-TO-15	ND	A01	2
1,1,2-Trichloroethane	ND	ug/m3	8.2	0.99	EPA-TO-15	ND	A01	2
Trichloroethene	ND	ug/m3	3.3	0.88	EPA-TO-15	ND	A01	2
Trichlorofluoromethane	1.4	ug/m3	8.2	0.77	EPA-TO-15	ND	J,A01	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.2	0.90	EPA-TO-15	ND	A01	2
1,2,4-Trimethylbenzene	1.4	ug/m3	8.2	0.65	EPA-TO-15	ND	J,A01	2
1,3,5-Trimethylbenzene	ND	ug/m3	8.2	0.65	EPA-TO-15	ND	A01	2
Vinyl acetate	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	2
Vinyl chloride	ND	ug/m3	3.3	0.64	EPA-TO-15	ND	A01	2
p- & m-Xylenes	28	ug/m3	8.2	0.99	EPA-TO-15	ND	A01	2
o-Xylene	8.8	ug/m3	8.2	0.49	EPA-TO-15	ND	A01	2
Total Xylenes	37	ug/m3	16	1.5	EPA-TO-15	ND	A01	2
4-Bromofluorobenzene (Surrogate)	95.5	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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 Long Beach, CA 90804

Reported: 04/13/2023 9:32
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306912-02	Client Sample Name: SV-24-2, 4/5/2023 1:35:00PM, Travis Clow
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
4-Bromofluorobenzene (Surrogate)	96.4	%	70 - 130 (LCL - UCL)		EPA-TO-15			2

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-TO-15	04/07/23	13:49	04/10/23	18:43	BEP	MS-A2	16.300	B163615	EPA TO-15
2	EPA-TO-15	04/07/23	13:49	04/07/23	21:58	BEP	MS-A2	1.630	B163615	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/13/2023 9:32
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163615							
Acetone	B163615-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B163615-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B163615-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B163615-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B163615-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B163615-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B163615-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B163615-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B163615-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B163615-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B163615-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B163615-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B163615-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B163615-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B163615-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B163615-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B163615-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B163615-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B163615-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B163615-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B163615-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B163615-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B163615-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B163615-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B163615-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B163615-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B163615-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B163615-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B163615-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B163615-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B163615-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B163615-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B163615-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B163615-BLK1	ND	ug/m3	2.0	0.42		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/13/2023 9:32
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163615							
Ethyl acetate	B163615-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B163615-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B163615-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B163615-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B163615-BLK1	ND	ug/m3	10	1.5		1
Hexane	B163615-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B163615-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B163615-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B163615-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B163615-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B163615-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B163615-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B163615-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B163615-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B163615-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B163615-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B163615-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B163615-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B163615-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B163615-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B163615-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B163615-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B163615-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B163615-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B163615-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B163615-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B163615-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B163615-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B163615-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B163615-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B163615-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B163615-BLK1	91.0	%	70 - 130 (LCL - UCL)			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/13/2023 9:32
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B163615-BLK1	PB	EPA-TO-15	04/07/23	04/07/23	15:43	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/13/2023 9:32
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B163615											
Benzene	B163615-BS1	LCS	15.910	15.974	ug/m3	99.6		70 - 130			1
	B163615-BSD1	LCSD	15.527	15.974	ug/m3	97.2	2.4	70 - 130	30		2
Chloroform	B163615-BS1	LCS	23.485	24.413	ug/m3	96.2		70 - 130			1
	B163615-BSD1	LCSD	23.583	24.413	ug/m3	96.6	0.4	70 - 130	30		2
Ethylbenzene	B163615-BS1	LCS	22.101	21.711	ug/m3	102		70 - 130			1
	B163615-BSD1	LCSD	22.319	21.711	ug/m3	103	1.0	70 - 130	30		2
Tetrachloroethene	B163615-BS1	LCS	33.031	33.913	ug/m3	97.4		70 - 130			1
	B163615-BSD1	LCSD	33.913	33.913	ug/m3	100	2.6	70 - 130	30		2
Toluene	B163615-BS1	LCS	18.805	18.842	ug/m3	99.8		70 - 130			1
	B163615-BSD1	LCSD	19.031	18.842	ug/m3	101	1.2	70 - 130	30		2
Trichloroethene	B163615-BS1	LCS	26.600	26.869	ug/m3	99.0		70 - 130			1
	B163615-BSD1	LCSD	27.084	26.869	ug/m3	101	1.8	70 - 130	30		2
Trichlorofluoromethane	B163615-BS1	LCS	26.856	28.092	ug/m3	95.6		70 - 130			1
	B163615-BSD1	LCSD	27.024	28.092	ug/m3	96.2	0.6	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B163615-BS1	LCS	37.475	38.318	ug/m3	97.8		70 - 130			1
	B163615-BSD1	LCSD	37.552	38.318	ug/m3	98.0	0.2	70 - 130	30		2
p- & m-Xylenes	B163615-BS1	LCS	46.721	43.421	ug/m3	108		70 - 130			1
	B163615-BSD1	LCSD	47.025	43.421	ug/m3	108	0.6	70 - 130	30		2
o-Xylene	B163615-BS1	LCS	22.970	21.711	ug/m3	106		70 - 130			1
	B163615-BSD1	LCSD	23.447	21.711	ug/m3	108	2.1	70 - 130	30		2
Total Xylenes	B163615-BS1	LCS	69.691	65.132	ug/m3	107		70 - 130			1
	B163615-BSD1	LCSD	70.473	65.132	ug/m3	108	1.1	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B163615-BS1	LCS	71.6	71.6	ug/m3	100		70 - 130			1
	B163615-BSD1	LCSD	71.3	71.6	ug/m3	99.6	0.4	70 - 130			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B163615-BS1	LCS	EPA-TO-15	04/07/23	04/07/23	14:29	BEP	MS-A2	1
2	B163615-BSD1	LCSD	EPA-TO-15	04/07/23	04/07/23	15:08	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/13/2023 9:32
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

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



Date of Report: 04/03/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304048
Invoice ID: B471031, B471953, B472845

Enclosed are the results of analyses for samples received by the laboratory on 2/27/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001408463

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY
The Chain-of-Custody is a LEGAL DOCUMENT.

Document

Page: 1 of 1

Section A
Required Client Information:

Company: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450
Long Beach, CA 90804
Email To: amg@rouxinc.com
Phone: 562-448-8024 Fax:
Requested Due Date(TAT): Standard

Section B
Required Project Information:

Report To: April McGuire
Copy To:
Purchase Order No.:
Project Name: City Terrace
Project Number: 2855

Section C
Invoice Information:

Attention: Roux Accounts Payable (rouxap@rouxinc.com)
Company Name: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
Pace Quote Reference: 00132481
Pace Project Manager/Sales Rep: Brianna Schultz / Dawn Gmsir
Pace Profile #:

Section D Required Client Information
AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

ITEM #	COLLECTED		Summa Can Number	Flow Control Number	Method	Pace Lab ID
	DATE	TIME				
1	2/11/15	11:22	0807	03878	TO-15 (SMA)	
2	2/11/15	11:23	0483	05979	TO-15	
3	2/12/15	11:21	0602	06021	TO-13 (PAM)	
4	2/12/15	11:21	1040	1161	TO-14	X
5	2/12/15	11:23	1031	1234	TO-15	X

RELIQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Cameron Jones (Roux)		2/11/15	12:26	Alex Perovich (Roux)	2/13/15	12:36	Temp in C
Alex Perovich (Roux)		2/13/15	14:38	Sean Owens (Roux)	2/16/15	12:38	Received on Ice
Sean Owens (Roux)		2/18/15	15:25	April McGuire (Roux)	2/23/15	15:25	Sealed Cooler
April McGuire - Roux		2/24/15	11:00	Gabe O'Leary	2/24/15	11:00	Sample Intact

Comments:

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6799

FC046Rev.01, 03Feb2010

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>	
Submission #: <u>23-04048</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input type="checkbox"/> Comments: _____					
Inact? Yes <input type="checkbox"/> No <input type="checkbox"/> Inact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUMMA</u> Thermometer ID: _____ Temperature: (A) <u>6.00</u> °C / (C) <u>TEMP</u> °C		Date/Time <u>2/27/23</u> Analyst Init <u>SL</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PLA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 543.1										
QT EPA 549.2										
QT EPA 881501										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A	A	A	A					

Comments: _____
 Sample Numbering Completed By: SL Date/Time: 2/27/23 14K
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304048-01	COC Number:	---	Receive Date:	02/27/2023 19:00
	Project Number:	---	Sampling Date:	02/23/2023 08:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AA-25-1	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
2304048-02	COC Number:	---	Receive Date:	02/27/2023 19:00
	Project Number:	---	Sampling Date:	02/23/2023 11:28
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-25-1	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
2304048-03	COC Number:	---	Receive Date:	02/27/2023 19:00
	Project Number:	---	Sampling Date:	02/23/2023 11:28
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-25-2	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
2304048-04	COC Number:	---	Receive Date:	02/27/2023 19:00
	Project Number:	---	Sampling Date:	02/23/2023 11:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-25-1	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
2304048-05	COC Number:	---	Receive Date:	02/27/2023 19:00
	Project Number:	---	Sampling Date:	02/23/2023 12:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-25-2	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304048-01		Client Sample Name: AA-25-1, 2/23/2023 8:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	3.5	ug/m3	5.0	0.43	EPA-TO-15	ND	J	1
Acetone	2.0	ug/m3	2.0	0.015	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.35	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.37	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.0	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	3.2	ug/m3	0.10	0.010	EPA-TO-15-SIM	ND	A01	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304048-01		Client Sample Name: AA-25-1, 2/23/2023 8:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	2.5	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.099	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	1.2	ug/m3	2.0	0.32	EPA-TO-15	ND	J	1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304048-01		Client Sample Name: AA-25-1, 2/23/2023 8:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	0.45	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	0.50	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.66	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
p- & m-Xylenes	0.32	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.12	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1
Total Xylenes	0.44	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	98.3	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	92.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	95.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304048-01		Client Sample Name: AA-25-1, 2/23/2023 8:30:00AM							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/17/23 13:12	03/18/23 15:07	BEP	MS-A2	1	B162179	EPA TO-15	
2	EPA-TO-15-SIM	02/28/23 13:11	03/01/23 11:18	BEP	MS-A1	2	B160945	EPA TO-15	
3	EPA-TO-15-SIM	02/28/23 13:11	03/01/23 09:31	BEP	MS-A1	1	B160945	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304048-01	Client Sample Name: AA-25-1, 2/23/2023 8:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	88	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/21/23 08:24	03/21/23 12:56	RMK	GC-A1	1	B162343	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304048-02		Client Sample Name: IA-25-1, 2/23/2023 11:28:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	20	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	12	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.35	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.39	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.0	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	3.3	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304048-02		Client Sample Name: IA-25-1, 2/23/2023 11:28:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	24	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	1.5	ug/m3	2.0	0.33	EPA-TO-15	ND	J	1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.13	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	2.2	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	0.88	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304048-02		Client Sample Name: IA-25-1, 2/23/2023 11:28:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	0.68	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	0.75	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.65	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
p- & m-Xylenes	0.47	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.17	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1
Total Xylenes	0.65	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	98.2	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	90.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	101	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304048-02		Client Sample Name: IA-25-1, 2/23/2023 11:28:00AM							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/17/23 13:12	03/18/23 15:53	BEP	MS-A2	1	B162179	EPA TO-15	
2	EPA-TO-15-SIM	02/28/23 13:11	03/01/23 11:48	BEP	MS-A1	10	B160945	EPA TO-15	
3	EPA-TO-15-SIM	02/28/23 13:11	03/01/23 10:08	BEP	MS-A1	1	B160945	EPA TO-15	

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304048-02	Client Sample Name: IA-25-1, 2/23/2023 11:28:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.9	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/21/23 08:24	03/21/23 13:16	RMK	GC-A1	1	B162343	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304048-03		Client Sample Name: IA-25-2, 2/23/2023 11:28:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	10	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	6.3	ug/m3	10	0.075	EPA-TO-15-SIM	ND	J,A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.38	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.40	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.0	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	3.3	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304048-03		Client Sample Name: IA-25-2, 2/23/2023 11:28:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	0.42	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	50	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	4.2	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.16	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	0.70	ug/m3	2.0	0.34	EPA-TO-15	ND	J	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	3.3	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304048-03		Client Sample Name: IA-25-2, 2/23/2023 11:28:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	0.64	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	0.71	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.2	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.63	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
p- & m-Xylenes	0.58	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.20	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1
Total Xylenes	0.78	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	98.6	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	89.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	99.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304048-03		Client Sample Name: IA-25-2, 2/23/2023 11:28:00AM							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/17/23 13:12	03/18/23 16:38	BEP	MS-A2	1	B162179	EPA TO-15	
2	EPA-TO-15-SIM	02/28/23 13:11	03/01/23 12:18	BEP	MS-A1	10	B160945	EPA TO-15	
3	EPA-TO-15-SIM	02/28/23 13:11	03/01/23 10:45	BEP	MS-A1	1	B160945	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304048-03	Client Sample Name: IA-25-2, 2/23/2023 11:28:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	8.5	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/21/23 08:24	03/21/23 13:37	RMK	GC-A1	1	B162343	No Prep

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304048-04		Client Sample Name: SV-25-1, 2/23/2023 11:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	70	ug/m3	7.6	0.65	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.0	0.41	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.0	0.43	EPA-TO-15	ND	A01	1
Benzene	6.8	ug/m3	3.0	0.32	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	15	0.40	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	7.6	0.68	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	15	1.3	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.0	0.71	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.0	0.33	EPA-TO-15	ND	A01	1
Carbon disulfide	6.8	ug/m3	3.0	0.29	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	7.6	0.68	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	7.6	0.61	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.0	0.81	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	7.6	0.82	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	3.0	0.32	EPA-TO-15	ND	A01	1
Cyclohexane	2.0	ug/m3	3.0	0.58	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	7.6	0.65	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	7.6	0.88	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	7.6	0.76	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	7.6	0.47	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	7.6	0.76	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.3	ug/m3	7.6	0.68	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	7.6	0.35	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	7.6	0.40	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	7.6	0.47	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.0	0.49	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.0	0.41	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	7.6	0.49	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	7.6	0.46	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	7.6	0.61	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	7.6	1.4	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	7.6	3.0	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.0	0.50	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304048-04		Client Sample Name: SV-25-1, 2/23/2023 11:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	59	ug/m3	3.0	0.64	EPA-TO-15	ND	A01	1
Ethyl acetate	1.8	ug/m3	3.0	0.50	EPA-TO-15	ND	J,A01	1
Ethylbenzene	3.7	ug/m3	7.6	0.49	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	1.1	ug/m3	7.6	0.46	EPA-TO-15	ND	J,A01	1
n-Heptane	35	ug/m3	3.0	0.52	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	15	2.3	EPA-TO-15	ND	A01	1
Hexane	3.3	ug/m3	7.6	0.30	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	7.6	0.44	EPA-TO-15	ND	A01	1
Isopropyl alcohol	36	ug/m3	3.0	0.49	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	15	0.61	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	4.2	ug/m3	3.0	0.29	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	0.68	ug/m3	7.6	0.40	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.0	0.43	EPA-TO-15	ND	A01	1
Propylene	1.4	ug/m3	3.0	0.38	EPA-TO-15	ND	J,A01	1
Styrene	ND	ug/m3	7.6	0.36	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	7.6	0.71	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.0	0.76	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.0	0.41	EPA-TO-15	ND	A01	1
Toluene	13	ug/m3	3.0	0.41	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	15	1.2	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	7.6	0.59	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	7.6	0.93	EPA-TO-15	ND	A01	1
Trichloroethene	1.1	ug/m3	3.0	0.82	EPA-TO-15	ND	J,A01	1
Trichlorofluoromethane	2.3	ug/m3	7.6	0.71	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	7.6	0.84	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.9	ug/m3	7.6	0.61	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	7.6	0.61	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.0	0.50	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.0	0.59	EPA-TO-15	ND	A01	1
p- & m-Xylenes	14	ug/m3	7.6	0.93	EPA-TO-15	ND	A01	1
o-Xylene	4.0	ug/m3	7.6	0.46	EPA-TO-15	ND	J,A01	1
Total Xylenes	18	ug/m3	15	1.4	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	94.1	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304048-04	Client Sample Name: SV-25-1, 2/23/2023 11:30:00AM							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-TO-15	02/28/23 13:55	03/01/23 14:53	BEP	MS-A2	1.520	B160936	EPA TO-15

DCN = Data Continuation Number



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304048-05		Client Sample Name: SV-25-2, 2/23/2023 12:30:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	170	ug/m3	8.2	0.71	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.3	0.46	EPA-TO-15	ND	A01	1
Benzene	15	ug/m3	3.3	0.34	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.43	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.2	0.74	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.3	0.77	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.3	0.36	EPA-TO-15	ND	A01	1
Carbon disulfide	12	ug/m3	3.3	0.31	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.2	0.74	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.2	0.66	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.3	0.87	EPA-TO-15	ND	A01	1
Chloroform	1.4	ug/m3	8.2	0.89	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.3	0.34	EPA-TO-15	ND	A01	1
Cyclohexane	2.7	ug/m3	3.3	0.62	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	8.2	0.71	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.2	0.95	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.2	0.82	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.2	0.51	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.2	0.82	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.5	ug/m3	8.2	0.74	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.2	0.38	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.2	0.43	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.2	0.51	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.3	0.52	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.2	0.52	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.2	0.49	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.2	0.66	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.2	1.5	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.2	3.3	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	1

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304048-05		Client Sample Name: SV-25-2, 2/23/2023 12:30:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	89	ug/m3	3.3	0.69	EPA-TO-15	ND	A01	1
Ethyl acetate	11	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	1
Ethylbenzene	4.8	ug/m3	8.2	0.52	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	1.5	ug/m3	8.2	0.49	EPA-TO-15	ND	J,A01	1
n-Heptane	62	ug/m3	3.3	0.56	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.5	EPA-TO-15	ND	A01	1
Hexane	5.2	ug/m3	8.2	0.33	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	8.2	0.48	EPA-TO-15	ND	A01	1
Isopropyl alcohol	52	ug/m3	3.3	0.52	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.66	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	10	ug/m3	3.3	0.31	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	1.8	ug/m3	8.2	0.43	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.3	0.46	EPA-TO-15	ND	A01	1
Propylene	1.5	ug/m3	3.3	0.41	EPA-TO-15	ND	J,A01	1
Styrene	ND	ug/m3	8.2	0.39	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.2	0.77	EPA-TO-15	ND	A01	1
Tetrachloroethene	2.7	ug/m3	3.3	0.82	EPA-TO-15	ND	J,A01	1
Tetrahydrofuran	ND	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	1
Toluene	24	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.2	0.64	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.2	1.0	EPA-TO-15	ND	A01	1
Trichloroethene	2.6	ug/m3	3.3	0.89	EPA-TO-15	ND	J,A01	1
Trichlorofluoromethane	1.7	ug/m3	8.2	0.77	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.2	0.90	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	2.3	ug/m3	8.2	0.66	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.2	0.66	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.3	0.64	EPA-TO-15	ND	A01	1
p- & m-Xylenes	16	ug/m3	8.2	1.0	EPA-TO-15	ND	A01	1
o-Xylene	5.0	ug/m3	8.2	0.49	EPA-TO-15	ND	J,A01	1
Total Xylenes	21	ug/m3	16	1.5	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	93.2	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
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Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304048-05	Client Sample Name: SV-25-2, 2/23/2023 12:30:00PM
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	02/28/23 13:55	03/01/23 15:38	BEP	MS-A2	1.640	B160936 EPA TO-15

DCN = Data Continuation Number

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Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B160936							
Acetone	B160936-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B160936-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B160936-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B160936-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B160936-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B160936-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B160936-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B160936-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B160936-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B160936-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B160936-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B160936-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B160936-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B160936-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B160936-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B160936-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B160936-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B160936-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B160936-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B160936-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B160936-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B160936-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B160936-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B160936-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B160936-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B160936-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B160936-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B160936-BLK1	ND	ug/m3	2.0	0.42		1

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Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B160936							
Ethyl acetate	B160936-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B160936-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B160936-BLK1	ND	ug/m3	10	1.5		1
Hexane	B160936-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B160936-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B160936-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B160936-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B160936-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B160936-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B160936-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B160936-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B160936-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B160936-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B160936-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B160936-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B160936-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B160936-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B160936-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B160936-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B160936-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B160936-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B160936-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B160936-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B160936-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B160936-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B160936-BLK1	92.0	%	70 - 130 (LCL - UCL)			1
QC Batch ID: B160945							

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Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B160945							
Acetone	B160945-BLK1	ND	ug/m3	1.0	0.0075		2
Benzene	B160945-BLK1	ND	ug/m3	0.050	0.0032		2
Benzyl chloride	B160945-BLK1	ND	ug/m3	0.50	0.0052		2
Carbon tetrachloride	B160945-BLK1	ND	ug/m3	0.20	0.0063		2
Chlorobenzene	B160945-BLK1	ND	ug/m3	0.10	0.0079		2
Chloroform	B160945-BLK1	ND	ug/m3	0.050	0.0058		2
1,2-Dibromoethane	B160945-BLK1	ND	ug/m3	0.20	0.014		2
1,2-Dichlorobenzene	B160945-BLK1	ND	ug/m3	0.20	0.011		2
1,3-Dichlorobenzene	B160945-BLK1	ND	ug/m3	0.20	0.013		2
1,4-Dichlorobenzene	B160945-BLK1	ND	ug/m3	0.20	0.016		2
Dichlorodifluoromethane	B160945-BLK1	ND	ug/m3	0.050	0.0052		2
1,1-Dichloroethane	B160945-BLK1	ND	ug/m3	0.050	0.0041		2
1,2-Dichloroethane	B160945-BLK1	ND	ug/m3	0.10	0.0046		2
1,1-Dichloroethene	B160945-BLK1	ND	ug/m3	0.050	0.0078		2
cis-1,2-Dichloroethene	B160945-BLK1	ND	ug/m3	0.050	0.0044		2
trans-1,2-Dichloroethene	B160945-BLK1	ND	ug/m3	0.050	0.0075		2
trans-1,3-Dichloropropene	B160945-BLK1	ND	ug/m3	0.050	0.013		2
1,1-Difluoroethane	B160945-BLK1	ND	ug/m3	5.0	0.0027		2
Ethylbenzene	B160945-BLK1	ND	ug/m3	0.050	0.017		2
Methylene chloride	B160945-BLK1	ND	ug/m3	0.20	0.0077		2
Tetrachloroethene	B160945-BLK1	ND	ug/m3	0.10	0.011		2
Toluene	B160945-BLK1	ND	ug/m3	0.10	0.0062		2
1,1,1-Trichloroethane	B160945-BLK1	ND	ug/m3	0.10	0.0055		2
1,1,2-Trichloroethane	B160945-BLK1	ND	ug/m3	0.10	0.0055		2
Trichloroethene	B160945-BLK1	ND	ug/m3	0.10	0.0095		2
Trichlorofluoromethane	B160945-BLK1	ND	ug/m3	0.050	0.0057		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B160945-BLK1	ND	ug/m3	0.10	0.0078		2
Vinyl chloride	B160945-BLK1	ND	ug/m3	0.020	0.0046		2
p- & m-Xylenes	B160945-BLK1	ND	ug/m3	0.050	0.0082		2
o-Xylene	B160945-BLK1	ND	ug/m3	0.050	0.0044		2
Total Xylenes	B160945-BLK1	ND	ug/m3	0.10	0.013		2
4-Bromofluorobenzene (Surrogate)	B160945-BLK1	87.6	%	50 - 150 (LCL - UCL)			2
QC Batch ID: B162179							

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162179							
Acetone	B162179-BLK1	ND	ug/m3	5.0	0.43		3
Acrylonitrile	B162179-BLK1	ND	ug/m3	2.0	0.27		3
Allyl chloride	B162179-BLK1	ND	ug/m3	2.0	0.28		3
Benzene	B162179-BLK1	ND	ug/m3	2.0	0.21		3
Benzyl chloride	B162179-BLK1	ND	ug/m3	10	0.26		3
Bromodichloromethane	B162179-BLK1	ND	ug/m3	5.0	0.45		3
Bromoform	B162179-BLK1	ND	ug/m3	10	0.86		3
Bromomethane	B162179-BLK1	ND	ug/m3	2.0	0.47		3
1,3-Butadiene	B162179-BLK1	ND	ug/m3	2.0	0.22		3
Carbon disulfide	B162179-BLK1	ND	ug/m3	2.0	0.19		3
Carbon tetrachloride	B162179-BLK1	ND	ug/m3	5.0	0.45		3
Chlorobenzene	B162179-BLK1	ND	ug/m3	5.0	0.40		3
Chloroethane	B162179-BLK1	ND	ug/m3	2.0	0.53		3
Chloroform	B162179-BLK1	ND	ug/m3	5.0	0.54		3
Chloromethane	B162179-BLK1	ND	ug/m3	2.0	0.21		3
Cyclohexane	B162179-BLK1	ND	ug/m3	2.0	0.38		3
Dibromochloromethane	B162179-BLK1	ND	ug/m3	5.0	0.43		3
1,2-Dibromoethane	B162179-BLK1	ND	ug/m3	5.0	0.58		3
1,2-Dichlorobenzene	B162179-BLK1	ND	ug/m3	5.0	0.50		3
1,3-Dichlorobenzene	B162179-BLK1	ND	ug/m3	5.0	0.31		3
1,4-Dichlorobenzene	B162179-BLK1	ND	ug/m3	5.0	0.50		3
Dichlorodifluoromethane	B162179-BLK1	ND	ug/m3	5.0	0.45		3
1,1-Dichloroethane	B162179-BLK1	ND	ug/m3	5.0	0.23		3
1,2-Dichloroethane	B162179-BLK1	ND	ug/m3	5.0	0.26		3
1,1-Dichloroethene	B162179-BLK1	ND	ug/m3	5.0	0.31		3
cis-1,2-Dichloroethene	B162179-BLK1	ND	ug/m3	2.0	0.32		3
trans-1,2-Dichloroethene	B162179-BLK1	ND	ug/m3	2.0	0.27		3
1,2-Dichloropropane	B162179-BLK1	ND	ug/m3	5.0	0.32		3
cis-1,3-Dichloropropene	B162179-BLK1	ND	ug/m3	5.0	0.30		3
trans-1,3-Dichloropropene	B162179-BLK1	ND	ug/m3	5.0	0.40		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162179-BLK1	ND	ug/m3	5.0	0.91		3
1,1-Difluoroethane	B162179-BLK1	ND	ug/m3	5.0	2.0		3
1,4-Dioxane	B162179-BLK1	ND	ug/m3	2.0	0.33		3
Ethanol	B162179-BLK1	ND	ug/m3	2.0	0.42		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162179							
Ethyl acetate	B162179-BLK1	ND	ug/m3	2.0	0.33		3
Ethylbenzene	B162179-BLK1	ND	ug/m3	5.0	0.32		3
1-Ethyl-4-methylbenzene	B162179-BLK1	ND	ug/m3	5.0	0.30		3
n-Heptane	B162179-BLK1	ND	ug/m3	2.0	0.34		3
Hexachlorobutadiene	B162179-BLK1	ND	ug/m3	10	1.5		3
Hexane	B162179-BLK1	ND	ug/m3	5.0	0.20		3
2-Hexanone	B162179-BLK1	ND	ug/m3	5.0	0.29		3
Isopropyl alcohol	B162179-BLK1	ND	ug/m3	2.0	0.32		3
Methylene chloride	B162179-BLK1	ND	ug/m3	10	0.40		3
Methyl ethyl ketone	B162179-BLK1	ND	ug/m3	2.0	0.19		3
Methyl isobutyl ketone	B162179-BLK1	ND	ug/m3	5.0	0.26		3
Methyl t-butyl ether	B162179-BLK1	ND	ug/m3	2.0	0.28		3
Propylene	B162179-BLK1	ND	ug/m3	2.0	0.25		3
Styrene	B162179-BLK1	ND	ug/m3	5.0	0.24		3
1,1,2,2-Tetrachloroethane	B162179-BLK1	ND	ug/m3	5.0	0.47		3
Tetrachloroethene	B162179-BLK1	ND	ug/m3	2.0	0.50		3
Tetrahydrofuran	B162179-BLK1	ND	ug/m3	2.0	0.27		3
Toluene	B162179-BLK1	ND	ug/m3	2.0	0.27		3
1,2,4-Trichlorobenzene	B162179-BLK1	ND	ug/m3	10	0.82		3
1,1,1-Trichloroethane	B162179-BLK1	ND	ug/m3	5.0	0.39		3
1,1,2-Trichloroethane	B162179-BLK1	ND	ug/m3	5.0	0.61		3
Trichloroethene	B162179-BLK1	ND	ug/m3	2.0	0.54		3
Trichlorofluoromethane	B162179-BLK1	ND	ug/m3	5.0	0.47		3
1,1,2-Trichloro-1,2,2-trifluoroethane	B162179-BLK1	ND	ug/m3	5.0	0.55		3
1,2,4-Trimethylbenzene	B162179-BLK1	ND	ug/m3	5.0	0.40		3
1,3,5-Trimethylbenzene	B162179-BLK1	ND	ug/m3	5.0	0.40		3
Vinyl acetate	B162179-BLK1	ND	ug/m3	2.0	0.33		3
Vinyl chloride	B162179-BLK1	ND	ug/m3	2.0	0.39		3
p- & m-Xylenes	B162179-BLK1	ND	ug/m3	5.0	0.61		3
o-Xylene	B162179-BLK1	ND	ug/m3	5.0	0.30		3
Total Xylenes	B162179-BLK1	ND	ug/m3	10	0.91		3
4-Bromofluorobenzene (Surrogate)	B162179-BLK1	0	%	70 - 130 (LCL - UCL)	S09		3

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1

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Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23	16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23	16:32	BEP	MS-A1	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23	06:11	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23 06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23 06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23 06:11	BEP	MS-A2	1
3	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23 06:11	BEP	MS-A2	1

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B160936											
Benzene	B160936-BS1	LCS	14.888	15.974	ug/m3	93.2		70 - 130			1
	B160936-BSD1	LCSD	14.664	15.974	ug/m3	91.8	1.5	70 - 130	30		2
Chloroform	B160936-BS1	LCS	24.999	24.413	ug/m3	102		70 - 130			1
	B160936-BSD1	LCSD	24.999	24.413	ug/m3	102	0	70 - 130	30		2
Ethylbenzene	B160936-BS1	LCS	21.971	21.711	ug/m3	101		70 - 130			1
	B160936-BSD1	LCSD	21.884	21.711	ug/m3	101	0.4	70 - 130	30		2
Tetrachloroethene	B160936-BS1	LCS	36.015	33.913	ug/m3	106		70 - 130			1
	B160936-BSD1	LCSD	36.015	33.913	ug/m3	106	0	70 - 130	30		2
Toluene	B160936-BS1	LCS	19.784	18.842	ug/m3	105		70 - 130			1
	B160936-BSD1	LCSD	19.407	18.842	ug/m3	103	1.9	70 - 130	30		2
Trichloroethene	B160936-BS1	LCS	28.051	26.869	ug/m3	104		70 - 130			1
	B160936-BSD1	LCSD	27.943	26.869	ug/m3	104	0.4	70 - 130	30		2
Trichlorofluoromethane	B160936-BS1	LCS	30.901	28.092	ug/m3	110		70 - 130			1
	B160936-BSD1	LCSD	31.238	28.092	ug/m3	111	1.1	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B160936-BS1	LCS	37.782	38.318	ug/m3	98.6		70 - 130			1
	B160936-BSD1	LCSD	37.322	38.318	ug/m3	97.4	1.2	70 - 130	30		2
p- & m-Xylenes	B160936-BS1	LCS	47.069	43.421	ug/m3	108		70 - 130			1
	B160936-BSD1	LCSD	47.242	43.421	ug/m3	109	0.4	70 - 130	30		2
o-Xylene	B160936-BS1	LCS	23.751	21.711	ug/m3	109		70 - 130			1
	B160936-BSD1	LCSD	23.925	21.711	ug/m3	110	0.7	70 - 130	30		2
Total Xylenes	B160936-BS1	LCS	70.820	65.132	ug/m3	109		70 - 130			1
	B160936-BSD1	LCSD	71.167	65.132	ug/m3	109	0.5	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B160936-BS1	LCS	73.6	71.6	ug/m3	103		70 - 130			1
	B160936-BSD1	LCSD	74.4	71.6	ug/m3	104	1.0	70 - 130			2
QC Batch ID: B160945											
Benzene	B160945-BS1	LCS	0.29865	0.31948	ug/m3	93.5		70 - 130			3
	B160945-BSD1	LCSD	0.29865	0.31948	ug/m3	93.5	0	70 - 130	30		4
Benzyl chloride	B160945-BS1	LCS	0.39901	0.51772	ug/m3	77.1		70 - 130		J	3
	B160945-BSD1	LCSD	0.37794	0.51772	ug/m3	73.0	5.4	70 - 130	30	J	4
Carbon tetrachloride	B160945-BS1	LCS	0.56182	0.62913	ug/m3	89.3		70 - 130			3
	B160945-BSD1	LCSD	0.55571	0.62913	ug/m3	88.3	1.1	70 - 130	30		4
Chlorobenzene	B160945-BS1	LCS	0.44673	0.46036	ug/m3	97.0		70 - 130			3
	B160945-BSD1	LCSD	0.44277	0.46036	ug/m3	96.2	0.9	70 - 130	30		4
Chloroform	B160945-BS1	LCS	0.47614	0.48825	ug/m3	97.5		70 - 130			3
	B160945-BSD1	LCSD	0.48122	0.48825	ug/m3	98.6	1.1	70 - 130	30		4
1,2-Dibromoethane	B160945-BS1	LCS	0.74607	0.76835	ug/m3	97.1		70 - 130			3
	B160945-BSD1	LCSD	0.73377	0.76835	ug/m3	95.5	1.7	70 - 130	30		4

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B160945											
1,2-Dichlorobenzene	B160945-BS1	LCS	0.59961	0.60124	ug/m3	99.7		70 - 130			3
	B160945-BSD1	LCSD	0.57670	0.60124	ug/m3	95.9	3.9	70 - 130	30		4
1,3-Dichlorobenzene	B160945-BS1	LCS	0.62414	0.60124	ug/m3	104		70 - 130			3
	B160945-BSD1	LCSD	0.56438	0.60124	ug/m3	93.9	10.1	70 - 130	30		4
1,4-Dichlorobenzene	B160945-BS1	LCS	0.54911	0.60124	ug/m3	91.3		70 - 130			3
	B160945-BSD1	LCSD	0.62480	0.60124	ug/m3	104	12.9	70 - 130	30		4
1,1-Dichloroethane	B160945-BS1	LCS	0.39397	0.40474	ug/m3	97.3		70 - 130			3
	B160945-BSD1	LCSD	0.39665	0.40474	ug/m3	98.0	0.7	70 - 130	30		4
1,2-Dichloroethane	B160945-BS1	LCS	0.37916	0.40474	ug/m3	93.7		70 - 130			3
	B160945-BSD1	LCSD	0.37738	0.40474	ug/m3	93.2	0.5	70 - 130	30		4
1,1-Dichloroethene	B160945-BS1	LCS	0.38535	0.39649	ug/m3	97.2		70 - 130			3
	B160945-BSD1	LCSD	0.38682	0.39649	ug/m3	97.6	0.4	70 - 130	30		4
cis-1,2-Dichloroethene	B160945-BS1	LCS	0.37231	0.39649	ug/m3	93.9		70 - 130			3
	B160945-BSD1	LCSD	0.37243	0.39649	ug/m3	93.9	0.0	70 - 130	30		4
Methylene chloride	B160945-BS1	LCS	0.37173	0.34737	ug/m3	107		70 - 130			3
	B160945-BSD1	LCSD	0.37593	0.34737	ug/m3	108	1.1	70 - 130	30		4
Tetrachloroethene	B160945-BS1	LCS	0.66903	0.67825	ug/m3	98.6		70 - 130			3
	B160945-BSD1	LCSD	0.66333	0.67825	ug/m3	97.8	0.9	70 - 130	30		4
Toluene	B160945-BS1	LCS	0.35518	0.37684	ug/m3	94.2		70 - 130			3
	B160945-BSD1	LCSD	0.35303	0.37684	ug/m3	93.7	0.6	70 - 130	30		4
1,1,1-Trichloroethane	B160945-BS1	LCS	0.51632	0.54562	ug/m3	94.6		70 - 130			3
	B160945-BSD1	LCSD	0.51201	0.54562	ug/m3	93.8	0.8	70 - 130	30		4
1,1,2-Trichloroethane	B160945-BS1	LCS	0.53143	0.54562	ug/m3	97.4		70 - 130			3
	B160945-BSD1	LCSD	0.52821	0.54562	ug/m3	96.8	0.6	70 - 130	30		4
Trichloroethene	B160945-BS1	LCS	0.52980	0.53737	ug/m3	98.6		70 - 130			3
	B160945-BSD1	LCSD	0.52458	0.53737	ug/m3	97.6	1.0	70 - 130	30		4
Vinyl chloride	B160945-BS1	LCS	0.29603	0.25562	ug/m3	116		70 - 130			3
	B160945-BSD1	LCSD	0.31226	0.25562	ug/m3	122	5.3	70 - 130	30		4
p- & m-Xylenes	B160945-BS1	LCS	0.85622	0.86843	ug/m3	98.6		70 - 130			3
	B160945-BSD1	LCSD	0.84372	0.86843	ug/m3	97.2	1.5	70 - 130	30		4
o-Xylene	B160945-BS1	LCS	0.42735	0.43421	ug/m3	98.4		70 - 130			3
	B160945-BSD1	LCSD	0.42275	0.43421	ug/m3	97.4	1.1	70 - 130	30		4
Total Xylenes	B160945-BS1	LCS	1.2836	1.3026	ug/m3	98.5		70 - 130			3
	B160945-BSD1	LCSD	1.2665	1.3026	ug/m3	97.2	1.3	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B160945-BS1	LCS	3.48	3.58	ug/m3	97.3		50 - 150			3
	B160945-BSD1	LCSD	3.46	3.58	ug/m3	96.7	0.6	50 - 150			4

QC Batch ID: B162179

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B162179											
Benzene	B162179-BS1	LCS	15.175	15.974	ug/m3	95.0		70 - 130			5
	B162179-BSD1	LCSD	15.239	15.974	ug/m3	95.4	0.4	70 - 130	30		6
Chloroform	B162179-BS1	LCS	22.899	24.413	ug/m3	93.8		70 - 130			5
	B162179-BSD1	LCSD	22.948	24.413	ug/m3	94.0	0.2	70 - 130	30		6
Ethylbenzene	B162179-BS1	LCS	20.451	21.711	ug/m3	94.2		70 - 130			5
	B162179-BSD1	LCSD	20.321	21.711	ug/m3	93.6	0.6	70 - 130	30		6
Tetrachloroethene	B162179-BS1	LCS	34.184	33.913	ug/m3	101		70 - 130			5
	B162179-BSD1	LCSD	33.302	33.913	ug/m3	98.2	2.6	70 - 130	30		6
Toluene	B162179-BS1	LCS	18.805	18.842	ug/m3	99.8		70 - 130			5
	B162179-BSD1	LCSD	18.578	18.842	ug/m3	98.6	1.2	70 - 130	30		6
Trichloroethene	B162179-BS1	LCS	26.385	26.869	ug/m3	98.2		70 - 130			5
	B162179-BSD1	LCSD	26.331	26.869	ug/m3	98.0	0.2	70 - 130	30		6
Trichlorofluoromethane	B162179-BS1	LCS	26.631	28.092	ug/m3	94.8		70 - 130			5
	B162179-BSD1	LCSD	26.575	28.092	ug/m3	94.6	0.2	70 - 130	30		6
1,1,2-Trichloro-1,2,2-trifluoroethane	B162179-BS1	LCS	36.096	38.318	ug/m3	94.2		70 - 130			5
	B162179-BSD1	LCSD	36.249	38.318	ug/m3	94.6	0.4	70 - 130	30		6
p- & m-Xylenes	B162179-BS1	LCS	43.030	43.421	ug/m3	99.1		70 - 130			5
	B162179-BSD1	LCSD	42.509	43.421	ug/m3	97.9	1.2	70 - 130	30		6
o-Xylene	B162179-BS1	LCS	21.276	21.711	ug/m3	98.0		70 - 130			5
	B162179-BSD1	LCSD	20.972	21.711	ug/m3	96.6	1.4	70 - 130	30		6
Total Xylenes	B162179-BS1	LCS	64.307	65.132	ug/m3	98.7		70 - 130			5
	B162179-BSD1	LCSD	63.482	65.132	ug/m3	97.5	1.3	70 - 130	30		6
4-Bromofluorobenzene (Surrogate)	B162179-BS1	LCS	73.5	71.6	ug/m3	103		70 - 130			5
	B162179-BSD1	LCSD	73.4	71.6	ug/m3	102	0.2	70 - 130			6

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
5	B162179-BS1	LCS	EPA-TO-15	03/17/23	03/18/23 04:58	BEP	MS-A2	1
5	B162179-BS1	LCS	EPA-TO-15	03/17/23	03/18/23 04:58	BEP	MS-A2	1
5	B162179-BS1	LCS	EPA-TO-15	03/17/23	03/18/23 04:58	BEP	MS-A2	1
5	B162179-BS1	LCS	EPA-TO-15	03/17/23	03/18/23 04:58	BEP	MS-A2	1
5	B162179-BS1	LCS	EPA-TO-15	03/17/23	03/18/23 04:58	BEP	MS-A2	1
5	B162179-BS1	LCS	EPA-TO-15	03/17/23	03/18/23 04:58	BEP	MS-A2	1
5	B162179-BS1	LCS	EPA-TO-15	03/17/23	03/18/23 04:58	BEP	MS-A2	1
5	B162179-BS1	LCS	EPA-TO-15	03/17/23	03/18/23 04:58	BEP	MS-A2	1
5	B162179-BS1	LCS	EPA-TO-15	03/17/23	03/18/23 04:58	BEP	MS-A2	1
5	B162179-BS1	LCS	EPA-TO-15	03/17/23	03/18/23 04:58	BEP	MS-A2	1
5	B162179-BS1	LCS	EPA-TO-15	03/17/23	03/18/23 04:58	BEP	MS-A2	1
5	B162179-BS1	LCS	EPA-TO-15	03/17/23	03/18/23 04:58	BEP	MS-A2	1
5	B162179-BS1	LCS	EPA-TO-15	03/17/23	03/18/23 04:58	BEP	MS-A2	1
6	B162179-BSD1	LCSD	EPA-TO-15	03/17/23	03/18/23 05:37	BEP	MS-A2	1
6	B162179-BSD1	LCSD	EPA-TO-15	03/17/23	03/18/23 05:37	BEP	MS-A2	1
6	B162179-BSD1	LCSD	EPA-TO-15	03/17/23	03/18/23 05:37	BEP	MS-A2	1
6	B162179-BSD1	LCSD	EPA-TO-15	03/17/23	03/18/23 05:37	BEP	MS-A2	1
6	B162179-BSD1	LCSD	EPA-TO-15	03/17/23	03/18/23 05:37	BEP	MS-A2	1
6	B162179-BSD1	LCSD	EPA-TO-15	03/17/23	03/18/23 05:37	BEP	MS-A2	1
6	B162179-BSD1	LCSD	EPA-TO-15	03/17/23	03/18/23 05:37	BEP	MS-A2	1
6	B162179-BSD1	LCSD	EPA-TO-15	03/17/23	03/18/23 05:37	BEP	MS-A2	1
6	B162179-BSD1	LCSD	EPA-TO-15	03/17/23	03/18/23 05:37	BEP	MS-A2	1
6	B162179-BSD1	LCSD	EPA-TO-15	03/17/23	03/18/23 05:37	BEP	MS-A2	1
6	B162179-BSD1	LCSD	EPA-TO-15	03/17/23	03/18/23 05:37	BEP	MS-A2	1
6	B162179-BSD1	LCSD	EPA-TO-15	03/17/23	03/18/23 05:37	BEP	MS-A2	1
6	B162179-BSD1	LCSD	EPA-TO-15	03/17/23	03/18/23 05:37	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
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QC Batch ID: B162343

Methane (CH4)	B162343-BLK1	ND	ppmv	2.0	1.8		1
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Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162343-BLK1	PB	ASTM-D1946	03/21/23	03/21/23 12:25	RMK	GC-A1	1

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 Long Beach, CA 90804

Reported: 04/03/2023 13:02
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162343											
Methane (CH4)	B162343-BS1	LCS	19312	18000	ppmv	107		70 - 130			1
	B162343-BSD1	LCSD	19330	18000	ppmv	107	0.1	70 - 130	30		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162343-BS1	LCS	ASTM-D1946	03/21/23	03/21/23	11:44	RMK	GC-A1	1
2	B162343-BSD1	LCSD	ASTM-D1946	03/21/23	03/21/23	12:05	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:02
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- C01 The calibration curve did not contain the minimum number of standards.
- S09 The surrogate recovery for this compound was not within the control limits.



Date of Report: 04/03/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2305061
Invoice ID: B472253, B472856

Enclosed are the results of analyses for samples received by the laboratory on 3/13/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001409444

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / Analytical Req
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

2305061



Page: 1 of 1

Section A Required Client Information:
 Company: Roux
 Address: 5150 E. Pacific Coast Hwy. Ste. 450
 Long Beach, CA 90804
 Email To: amcguire@rouxinc.com
 Phone: 562-446-8524 Fax: _____
 Requested Date/Time: Standard

Section B Required Project Information:
 Report To: April McGuire
 Copy To: _____
 Company Name: Roux
 Address: 5150 E. Pacific Coast Hwy. Ste. 450, Long Beach, CA 90804
 POC Contact Reference: 00132681 & 00132633
 Project Manager/Sales Rep: Brianna Schutte / Dawn Gnoor
 Project Profile #: _____

Section C Invoice Information:
 Attention: Roux Accounts Payable (rouxap@rouxinc.com)
 Invoice Number: 23-05061

Section D Required Client Information:
 AIR SAMPLE ID: AA-26-1, IA-26-1, IA-26-1-0, IA-26-2, SU-26-1, SU-26-2
 Sample IDs MUST BE UNIQUE

COLLECTED:

ITEM #	DATE	TIME	DATE	TIME	MEDIA CODE	MPD Reading (Client only)	COMPOSITE	COMPOSITE	DATE	TIME	Initial Field - pag	Final Field - pag	Summa Can Number	Flow Control Number	Method	Pace Lab ID
1	3/19/23	1530	3/19/23	1602	GLC				3/19/23	1600	30-5	5536	13689	PH10	TOA	
2					GLC					1348	30-5	8008	13680	PH10	TOA	
3					GLC					1744	30-7	3906	1031	PH10	TOA	
4					GLC					1240	30-6	3833	3803	PH10	TOA	
5					1K					1530	27-5	9479	1324	PH10	TOA	
6					GLC					1533	28-5	5176	1074	PH10	TOA	

RELINQUISHED BY / AFFILIATION:
 Cameron Jones (Roux) 3/10/23 1600
 Alex Perdikis (Roux) 3/10/23 1630

ACCEPTED BY / AFFILIATION:
 Dimargos Roux 3/13/25 0930

CHK BY: JCR
DISTRIBUTION: []
SUB-OUT: []

RECEIVED BY / AFFILIATION:
 Signature: Cameron Jones
 DATE Signed: 03/10/23

SAMPLE CONDITIONS:
 Temp in °C: _____
 Received on Ice: Y/N
 Sealed Cooler: Y/N
 Samples Intact: Y/N

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page	Of
Submission #: <u>23-05061</u>					
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments:					
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u> </u> Container <u>Summa</u> Thermometer ID: <u> </u>		Date/Time <u>3-13-23</u>	
		Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Analyst Init <u>SMH0930</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁴										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
Pa PHEROLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 501										
QT EPA 505/508.3/5081A										
QT EPA 515.1/5151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8170C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz IAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT- <u>Summa Canister 1.4L</u>										
SUNMA CANISTER <u>6L</u>	A	A	A	A	A	A				

Comments: _____
 Sample Numbering Completed By: MAJ Date/Time: 3/13/23 1040 Rev 23 05/20/22
 A = Actual / C = Corrected [S:\MPD\dev\Work\Partials\LAB_DOC\CFORMS\13M513M513Crev 20]



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
2305061-01	COC Number:	---		Receive Date:	03/13/2023 09:30
	Project Number:	---		Sampling Date:	03/10/2023 15:02
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	AA-26-1		Lab Matrix:	Air
	Sampled By:	Cameron Jones		Sample Type:	Vapor or Air
2305061-02	COC Number:	---		Receive Date:	03/13/2023 09:30
	Project Number:	---		Sampling Date:	03/10/2023 13:48
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	IA-26-1		Lab Matrix:	Air
	Sampled By:	Cameron Jones		Sample Type:	Vapor or Air
2305061-03	COC Number:	---		Receive Date:	03/13/2023 09:30
	Project Number:	---		Sampling Date:	03/10/2023 13:48
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	IA-26-1-D		Lab Matrix:	Air
	Sampled By:	Cameron Jones		Sample Type:	Vapor or Air
2305061-04	COC Number:	---		Receive Date:	03/13/2023 09:30
	Project Number:	---		Sampling Date:	03/10/2023 12:40
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	IA-26-2		Lab Matrix:	Air
	Sampled By:	Cameron Jones		Sample Type:	Vapor or Air
2305061-05	COC Number:	---		Receive Date:	03/13/2023 09:30
	Project Number:	---		Sampling Date:	03/10/2023 15:30
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	SV-26-1		Lab Matrix:	Air
	Sampled By:	Cameron Jones		Sample Type:	Vapor or Air
2305061-06	COC Number:	---		Receive Date:	03/13/2023 09:30
	Project Number:	---		Sampling Date:	03/10/2023 15:33
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	SV-26-2		Lab Matrix:	Air
	Sampled By:	Cameron Jones		Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305061-01		Client Sample Name: AA-26-1, 3/10/2023 3:02:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	10	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	7.9	ug/m3	10	0.075	EPA-TO-15-SIM	ND	J,A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		3
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		3
Benzene	0.67	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.57	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		4
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		3
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		4
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		3
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		3
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		3
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		3
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		3
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		3
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		4
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		3
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		4
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		3
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		3
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		4
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		3
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		3
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		3
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		4
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		3
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		4
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		3
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		4
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		3
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		4
Dichlorodifluoromethane	3.1	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	2
Dichlorodifluoromethane	2.0	ug/m3	5.0	0.45	EPA-TO-15	ND	J	3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305061-01		Client Sample Name: AA-26-1, 3/10/2023 3:02:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		3
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		4
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		3
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		4
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		3
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		4
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		4
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		4
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		3
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		3
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		3
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		4
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		3
1,1-Difluoroethane	5.0	ug/m3	50	0.027	EPA-TO-15-SIM	ND	J,A01	2
1,1-Difluoroethane	4.3	ug/m3	5.0	2.0	EPA-TO-15	ND	J	3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		3
Ethanol	4.8	ug/m3	2.0	0.42	EPA-TO-15	ND		3
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		3
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		3
Ethylbenzene	0.22	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		4
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		3
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		3
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		3
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		3
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		3
Isopropyl alcohol	2.0	ug/m3	2.0	0.32	EPA-TO-15	ND		3
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		3
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		4
Methyl ethyl ketone	0.74	ug/m3	2.0	0.19	EPA-TO-15	ND	J	3
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		3
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305061-01		Client Sample Name: AA-26-1, 3/10/2023 3:02:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		3
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		3
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		3
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		3
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		4
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		3
Toluene	1.6	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.3	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		4
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		3
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		3
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		4
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		3
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		4
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		3
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		4
Trichlorofluoromethane	1.2	ug/m3	5.0	0.47	EPA-TO-15	ND	J	3
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		4
1,2,4-Trimethylbenzene	0.54	ug/m3	5.0	0.40	EPA-TO-15	ND	J	1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		3
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		3
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		3
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		4
p- & m-Xylenes	0.78	ug/m3	5.0	0.61	EPA-TO-15	ND	J	3
p- & m-Xylenes	0.82	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		4
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		3
o-Xylene	0.29	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		4
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		3
Total Xylenes	1.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		4
4-Bromofluorobenzene (Surrogate)	97.5	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	94.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	106	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			4

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:23
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305061-01	Client Sample Name: AA-26-1, 3/10/2023 3:02:00PM, Cameron Jones
----------------------------------	--

DCN	Method	Prep Date		Run		Analyst	Instrument	Dilution	QC	
				Date/Time	Date/Time				Batch ID	
1	EPA-TO-15	03/22/23	13:21	03/23/23	10:46	BEP	MS-A2	1	B162459	EPA TO-15
2	EPA-TO-15-SIM	03/15/23	13:22	03/16/23	14:47	BEP	MS-A1	10	B161965	EPA TO-15
3	EPA-TO-15	03/22/23	13:21	03/22/23	20:01	BEP	MS-A2	1	B162459	EPA TO-15
4	EPA-TO-15-SIM	03/15/23	13:22	03/15/23	22:50	BEP	MS-A1	1	B161965	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2305061-01	Client Sample Name: AA-26-1, 3/10/2023 3:02:00PM, Cameron Jones
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	3.3	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/23/23 08:59	03/23/23 14:09	RMK	GC-A1	1	B162517	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305061-02		Client Sample Name: IA-26-1, 3/10/2023 1:48:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	70	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	54	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		3
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		3
Benzene	0.93	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.75	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		4
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		3
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		4
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		3
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		3
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		3
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		3
Carbon disulfide	0.75	ug/m3	2.0	0.19	EPA-TO-15	ND	J	3
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		3
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		4
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		3
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		4
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		3
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		3
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		4
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		3
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		3
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		3
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		4
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		3
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		4
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		3
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		4
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		3
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		4
Dichlorodifluoromethane	3.3	ug/m3	1.0	0.10	EPA-TO-15-SIM	ND	A01	2
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305061-02		Client Sample Name: IA-26-1, 3/10/2023 1:48:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		3
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		4
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		3
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		4
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		3
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		4
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		4
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		4
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		3
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		3
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		3
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		4
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		3
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	14	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		3
Ethanol	110	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	1.6	ug/m3	2.0	0.33	EPA-TO-15	ND	J	1
Ethylbenzene	0.56	ug/m3	5.0	0.32	EPA-TO-15	ND	J	1
Ethylbenzene	1.2	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		4
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		3
n-Heptane	0.45	ug/m3	2.0	0.34	EPA-TO-15	ND	J	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		3
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		3
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		3
Isopropyl alcohol	6.9	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		3
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		4
Methyl ethyl ketone	1.5	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	0.53	ug/m3	5.0	0.26	EPA-TO-15	ND	J	3
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		3

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 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305061-02		Client Sample Name: IA-26-1, 3/10/2023 1:48:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		3
Styrene	0.68	ug/m3	5.0	0.24	EPA-TO-15	ND	J	3
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		3
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		3
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		4
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		3
Toluene	2.2	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	3.1	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		3
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		3
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		4
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		3
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		4
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		3
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		4
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	3
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		4
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		3
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		3
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		3
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		3
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		4
p- & m-Xylenes	2.0	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	2.3	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		4
o-Xylene	0.78	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
o-Xylene	0.84	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		4
Total Xylenes	2.7	ug/m3	10	0.91	EPA-TO-15	ND	J	3
Total Xylenes	3.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		4
4-Bromofluorobenzene (Surrogate)	96.8	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	98.6	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	114	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			4

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Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305061-02		Client Sample Name: IA-26-1, 3/10/2023 1:48:00PM, Cameron Jones							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/22/23 13:21	03/23/23 11:32	BEP	MS-A2	1	B162459	EPA TO-15	
2	EPA-TO-15-SIM	03/15/23 13:22	03/16/23 01:11	BEP	MS-A1	20	B161965	EPA TO-15	
3	EPA-TO-15	03/22/23 13:21	03/22/23 20:45	BEP	MS-A2	1	B162459	EPA TO-15	
4	EPA-TO-15-SIM	03/15/23 13:22	03/15/23 23:27	BEP	MS-A1	1	B161965	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2305061-02	Client Sample Name: IA-26-1, 3/10/2023 1:48:00PM, Cameron Jones
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.1	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/23/23 08:59	03/23/23 14:30	RMK	GC-A1	1	B162517	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305061-03		Client Sample Name: IA-26-1-D, 3/10/2023 1:48:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	42	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	1
Acetone	61	ug/m3	5.0	0.43	EPA-TO-15	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		3
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		3
Benzene	0.93	ug/m3	2.0	0.21	EPA-TO-15	ND	J	2
Benzene	0.72	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		4
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		3
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		4
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		3
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		3
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		3
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		3
Carbon disulfide	0.75	ug/m3	2.0	0.19	EPA-TO-15	ND	J	3
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		3
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		4
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		3
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		4
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		3
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		3
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		4
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		2
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		3
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		3
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		3
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		4
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		3
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		4
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		3
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		4
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		3
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		4
Dichlorodifluoromethane	2.5	ug/m3	1.0	0.10	EPA-TO-15-SIM	ND	A01	1
Dichlorodifluoromethane	1.8	ug/m3	5.0	0.45	EPA-TO-15	ND	J	2

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Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305061-03		Client Sample Name: IA-26-1-D, 3/10/2023 1:48:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		3
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		4
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		3
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		4
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		3
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		4
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		4
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		4
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		3
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		3
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		3
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		4
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		3
1,1-Difluoroethane	10	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	1
1,1-Difluoroethane	10	ug/m3	5.0	2.0	EPA-TO-15	ND		3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		3
Ethanol	240	ug/m3	2.0	0.42	EPA-TO-15	ND		3
Ethyl acetate	1.3	ug/m3	2.0	0.33	EPA-TO-15	ND	J	2
Ethylbenzene	0.48	ug/m3	5.0	0.32	EPA-TO-15	ND	J	2
Ethylbenzene	1.1	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		4
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		3
n-Heptane	0.41	ug/m3	2.0	0.34	EPA-TO-15	ND	J	3
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		3
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		3
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		3
Isopropyl alcohol	44	ug/m3	2.0	0.32	EPA-TO-15	ND		3
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		3
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		4
Methyl ethyl ketone	1.5	ug/m3	2.0	0.19	EPA-TO-15	ND	J	2
Methyl isobutyl ketone	0.45	ug/m3	5.0	0.26	EPA-TO-15	ND	J	3
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID:	2305061-03	Client Sample Name:	IA-26-1-D, 3/10/2023 1:48:00PM, Cameron Jones					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		3
Styrene	0.47	ug/m3	5.0	0.24	EPA-TO-15	ND	J	2
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		3
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		3
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		4
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		3
Toluene	2.3	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	A01	1
Toluene	2.1	ug/m3	2.0	0.27	EPA-TO-15	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		3
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		3
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		4
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		3
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		4
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		3
Trichloroethene	0.030	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND	J	4
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	3
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		4
1,2,4-Trimethylbenzene	0.84	ug/m3	5.0	0.40	EPA-TO-15	ND	J	2
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		3
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		3
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		3
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		4
p- & m-Xylenes	1.9	ug/m3	5.0	0.61	EPA-TO-15	ND	J	3
p- & m-Xylenes	2.0	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		4
o-Xylene	0.61	ug/m3	5.0	0.30	EPA-TO-15	ND	J	2
o-Xylene	0.75	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		4
Total Xylenes	2.6	ug/m3	10	0.91	EPA-TO-15	ND	J	3
Total Xylenes	2.8	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		4
4-Bromofluorobenzene (Surrogate)	94.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	95.8	%	70 - 130 (LCL - UCL)		EPA-TO-15			2
4-Bromofluorobenzene (Surrogate)	114	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			4

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:23
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305061-03		Client Sample Name: IA-26-1-D, 3/10/2023 1:48:00PM, Cameron Jones							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15-SIM	03/15/23 13:22	03/16/23 01:41	BEP	MS-A1	20	B161965	EPA TO-15	
2	EPA-TO-15	03/22/23 13:21	03/23/23 12:18	BEP	MS-A2	1	B162459	EPA TO-15	
3	EPA-TO-15	03/22/23 13:21	03/22/23 21:28	BEP	MS-A2	1	B162459	EPA TO-15	
4	EPA-TO-15-SIM	03/15/23 13:22	03/16/23 00:03	BEP	MS-A1	1	B161965	EPA TO-15	

DCN = Data Continuation Number

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Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2305061-03	Client Sample Name: IA-26-1-D, 3/10/2023 1:48:00PM, Cameron Jones
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	4.4	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/23/23 08:59	03/23/23 14:50	RMK	GC-A1	1	B162517	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305061-04		Client Sample Name: IA-26-2, 3/10/2023 12:40:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	55	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	59	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		3
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		3
Benzene	0.77	ug/m3	2.0	0.21	EPA-TO-15	ND	J	3
Benzene	0.75	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		4
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		3
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		4
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		3
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		3
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		3
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		3
Carbon disulfide	0.78	ug/m3	2.0	0.19	EPA-TO-15	ND	J	3
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		3
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		4
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		3
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		4
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		3
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		3
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		4
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		3
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		3
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		3
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		4
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		3
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		4
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		3
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		4
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		3
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		4
Dichlorodifluoromethane	1.9	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	3.1	ug/m3	1.0	0.10	EPA-TO-15-SIM	ND	A01	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305061-04		Client Sample Name: IA-26-2, 3/10/2023 12:40:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		3
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		4
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		3
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		4
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		3
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		4
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		4
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		4
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		3
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		3
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		3
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		4
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		3
1,1-Difluoroethane	17	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	2
1,1-Difluoroethane	14	ug/m3	5.0	2.0	EPA-TO-15	ND		3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		3
Ethanol	280	ug/m3	2.0	0.42	EPA-TO-15	ND		3
Ethyl acetate	4.6	ug/m3	2.0	0.33	EPA-TO-15	ND		3
Ethylbenzene	1.7	ug/m3	5.0	0.32	EPA-TO-15	ND	J	3
Ethylbenzene	1.8	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		4
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		3
n-Heptane	0.45	ug/m3	2.0	0.34	EPA-TO-15	ND	J	3
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		3
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		3
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		3
Isopropyl alcohol	51	ug/m3	2.0	0.32	EPA-TO-15	ND		3
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		3
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		4
Methyl ethyl ketone	3.0	ug/m3	2.0	0.19	EPA-TO-15	ND		3
Methyl isobutyl ketone	0.66	ug/m3	5.0	0.26	EPA-TO-15	ND	J	3
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		3

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Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305061-04		Client Sample Name: IA-26-2, 3/10/2023 12:40:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		3
Styrene	0.85	ug/m3	5.0	0.24	EPA-TO-15	ND	J	3
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		3
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		3
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		4
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		3
Toluene	3.5	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	A01	2
Toluene	3.2	ug/m3	2.0	0.27	EPA-TO-15	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		3
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		3
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		4
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		3
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		4
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		3
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		4
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		4
1,2,4-Trimethylbenzene	0.98	ug/m3	5.0	0.40	EPA-TO-15	ND	J	1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		3
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		3
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		3
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		4
p- & m-Xylenes	1.6	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	2.6	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		4
o-Xylene	0.87	ug/m3	5.0	0.30	EPA-TO-15	ND	J	3
o-Xylene	0.94	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		4
Total Xylenes	3.2	ug/m3	10	0.91	EPA-TO-15	ND	J	3
Total Xylenes	3.5	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		4
4-Bromofluorobenzene (Surrogate)	95.8	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	92.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	117	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			4

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Reported: 04/03/2023 13:23
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305061-04	Client Sample Name: IA-26-2, 3/10/2023 12:40:00PM, Cameron Jones
----------------------------------	---

DCN	Method	Prep Date		Run		Analyst	Instrument	Dilution	QC	
				Date/Time	Date/Time				Batch ID	
1	EPA-TO-15	03/22/23	13:21	03/23/23	13:03	BEP	MS-A2	1	B162459	EPA TO-15
2	EPA-TO-15-SIM	03/15/23	13:22	03/16/23	02:13	BEP	MS-A1	20	B161965	EPA TO-15
3	EPA-TO-15	03/22/23	13:21	03/22/23	22:12	BEP	MS-A2	1	B162459	EPA TO-15
4	EPA-TO-15-SIM	03/15/23	13:22	03/16/23	00:40	BEP	MS-A1	1	B161965	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2305061-04	Client Sample Name: IA-26-2, 3/10/2023 12:40:00PM, Cameron Jones
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	7.0	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/23/23 08:59	03/23/23 15:10	RMK	GC-A1	1	B162517	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305061-05		Client Sample Name: SV-26-1, 3/10/2023 3:30:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	30	ug/m3	8.1	0.70	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.2	0.44	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Benzene	ND	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.42	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.1	0.73	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.2	0.76	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.2	0.36	EPA-TO-15	ND	A01	1
Carbon disulfide	9.4	ug/m3	3.2	0.31	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.1	0.73	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.1	0.65	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.2	0.86	EPA-TO-15	ND	A01	1
Chloroform	1.3	ug/m3	8.1	0.87	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	3.2	0.62	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	8.1	0.70	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.1	0.94	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.1	0.81	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.1	0.50	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.1	0.81	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.5	ug/m3	8.1	0.73	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.1	0.37	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.1	0.42	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.1	0.50	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.2	0.44	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.1	0.52	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.1	0.49	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.1	0.65	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.1	1.5	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.1	3.2	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1

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 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305061-05		Client Sample Name: SV-26-1, 3/10/2023 3:30:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	17	ug/m3	3.2	0.68	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1
Ethylbenzene	1.2	ug/m3	8.1	0.52	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	8.1	0.49	EPA-TO-15	ND	A01	1
n-Heptane	ND	ug/m3	3.2	0.55	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	1
Hexane	ND	ug/m3	8.1	0.32	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ug/m3	8.1	0.47	EPA-TO-15	ND	A01	1
Isopropyl alcohol	19	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.65	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	3.0	ug/m3	3.2	0.31	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	ND	ug/m3	8.1	0.42	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.2	0.40	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	8.1	0.39	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.1	0.76	EPA-TO-15	ND	A01	1
Tetrachloroethene	1.5	ug/m3	3.2	0.81	EPA-TO-15	ND	J,A01	1
Tetrahydrofuran	ND	ug/m3	3.2	0.44	EPA-TO-15	ND	A01	1
Toluene	2.7	ug/m3	3.2	0.44	EPA-TO-15	ND	J,A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.1	0.63	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.1	0.99	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.2	0.87	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.2	ug/m3	8.1	0.76	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.1	0.89	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.1	ug/m3	8.1	0.65	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.1	0.65	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.2	0.63	EPA-TO-15	ND	A01	1
p- & m-Xylenes	4.2	ug/m3	8.1	0.99	EPA-TO-15	ND	J,A01	1
o-Xylene	1.5	ug/m3	8.1	0.49	EPA-TO-15	ND	J,A01	1
Total Xylenes	5.6	ug/m3	16	1.5	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	98.6	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305061-05	Client Sample Name: SV-26-1, 3/10/2023 3:30:00PM, Cameron Jones
----------------------------------	--

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	03/14/23 13:48	03/15/23 01:52	BEP	MS-A1	1.620	B161871 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305061-06		Client Sample Name: SV-26-2, 3/10/2023 3:33:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	38	ug/m3	7.8	0.67	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.1	0.44	EPA-TO-15	ND	A01	1
Benzene	0.55	ug/m3	3.1	0.33	EPA-TO-15	ND	J,A01	1
Benzyl chloride	ND	ug/m3	16	0.41	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	7.8	0.70	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.1	0.73	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.1	0.34	EPA-TO-15	ND	A01	1
Carbon disulfide	1.5	ug/m3	3.1	0.30	EPA-TO-15	ND	J,A01	1
Carbon tetrachloride	ND	ug/m3	7.8	0.70	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	7.8	0.62	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.1	0.83	EPA-TO-15	ND	A01	1
Chloroform	0.99	ug/m3	7.8	0.84	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.1	0.33	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	3.1	0.59	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	7.8	0.67	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	7.8	0.90	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	7.8	0.78	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	7.8	0.48	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	7.8	0.78	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.2	ug/m3	7.8	0.70	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	7.8	0.36	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	7.8	0.41	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	7.8	0.48	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.1	0.50	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	7.8	0.50	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	7.8	0.47	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	7.8	0.62	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	7.8	1.4	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	3.1	ug/m3	7.8	3.1	EPA-TO-15	ND	J,A01	1
1,4-Dioxane	ND	ug/m3	3.1	0.51	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305061-06		Client Sample Name: SV-26-2, 3/10/2023 3:33:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	24	ug/m3	3.1	0.66	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	3.1	0.51	EPA-TO-15	ND	A01	1
Ethylbenzene	1.4	ug/m3	7.8	0.50	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	0.84	ug/m3	7.8	0.47	EPA-TO-15	ND	J,A01	1
n-Heptane	0.83	ug/m3	3.1	0.53	EPA-TO-15	ND	J,A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.3	EPA-TO-15	ND	A01	1
Hexane	0.71	ug/m3	7.8	0.31	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	7.8	0.45	EPA-TO-15	ND	A01	1
Isopropyl alcohol	29	ug/m3	3.1	0.50	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.62	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	2.0	ug/m3	3.1	0.30	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	ND	ug/m3	7.8	0.41	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	3.1	0.44	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.1	0.39	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	7.8	0.37	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	7.8	0.73	EPA-TO-15	ND	A01	1
Tetrachloroethene	1.5	ug/m3	3.1	0.78	EPA-TO-15	ND	J,A01	1
Tetrahydrofuran	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
Toluene	3.5	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	7.8	0.61	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	7.8	0.95	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.1	0.84	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.2	ug/m3	7.8	0.73	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	7.8	0.86	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.5	ug/m3	7.8	0.62	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	7.8	0.62	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.1	0.51	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.1	0.61	EPA-TO-15	ND	A01	1
p- & m-Xylenes	4.9	ug/m3	7.8	0.95	EPA-TO-15	ND	J,A01	1
o-Xylene	1.7	ug/m3	7.8	0.47	EPA-TO-15	ND	J,A01	1
Total Xylenes	6.6	ug/m3	16	1.4	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	97.3	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:23
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305061-06	Client Sample Name: SV-26-2, 3/10/2023 3:33:00PM, Cameron Jones
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15	03/14/23 13:48	03/15/23 02:28		BEP	MS-A1	1.560	B161871	EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161871							
Acetone	B161871-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B161871-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B161871-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B161871-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B161871-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B161871-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B161871-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B161871-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B161871-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B161871-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B161871-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B161871-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B161871-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B161871-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B161871-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B161871-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B161871-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B161871-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B161871-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B161871-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B161871-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B161871-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B161871-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B161871-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B161871-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B161871-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B161871-BLK1	ND	ug/m3	2.0	0.42		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161871							
Ethyl acetate	B161871-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B161871-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B161871-BLK1	ND	ug/m3	10	1.5		1
Hexane	B161871-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B161871-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B161871-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B161871-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B161871-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B161871-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B161871-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B161871-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B161871-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B161871-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B161871-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B161871-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B161871-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B161871-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B161871-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B161871-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161871-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B161871-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B161871-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B161871-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B161871-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B161871-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B161871-BLK1	90.5	%	70 - 130 (LCL - UCL)			1
QC Batch ID: B161965							

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Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161965							
Acetone	B161965-BLK1	ND	ug/m3	1.0	0.0075		2
Benzene	B161965-BLK1	ND	ug/m3	0.050	0.0032		2
Benzyl chloride	B161965-BLK1	ND	ug/m3	0.50	0.0052		2
Carbon tetrachloride	B161965-BLK1	ND	ug/m3	0.20	0.0063		2
Chlorobenzene	B161965-BLK1	ND	ug/m3	0.10	0.0079		2
Chloroform	B161965-BLK1	ND	ug/m3	0.050	0.0058		2
1,2-Dibromoethane	B161965-BLK1	ND	ug/m3	0.20	0.014		2
1,2-Dichlorobenzene	B161965-BLK1	ND	ug/m3	0.20	0.011		2
1,3-Dichlorobenzene	B161965-BLK1	ND	ug/m3	0.20	0.013		2
1,4-Dichlorobenzene	B161965-BLK1	ND	ug/m3	0.20	0.016		2
Dichlorodifluoromethane	B161965-BLK1	ND	ug/m3	0.050	0.0052		2
1,1-Dichloroethane	B161965-BLK1	ND	ug/m3	0.050	0.0041		2
1,2-Dichloroethane	B161965-BLK1	ND	ug/m3	0.10	0.0046		2
1,1-Dichloroethene	B161965-BLK1	ND	ug/m3	0.050	0.0078		2
cis-1,2-Dichloroethene	B161965-BLK1	ND	ug/m3	0.050	0.0044		2
trans-1,2-Dichloroethene	B161965-BLK1	ND	ug/m3	0.050	0.0075		2
trans-1,3-Dichloropropene	B161965-BLK1	ND	ug/m3	0.050	0.013		2
1,1-Difluoroethane	B161965-BLK1	ND	ug/m3	5.0	0.0027		2
Ethylbenzene	B161965-BLK1	ND	ug/m3	0.050	0.017		2
Methylene chloride	B161965-BLK1	ND	ug/m3	0.20	0.0077		2
Tetrachloroethene	B161965-BLK1	ND	ug/m3	0.10	0.011		2
Toluene	B161965-BLK1	ND	ug/m3	0.10	0.0062		2
1,1,1-Trichloroethane	B161965-BLK1	ND	ug/m3	0.10	0.0055		2
1,1,2-Trichloroethane	B161965-BLK1	ND	ug/m3	0.10	0.0055		2
Trichloroethene	B161965-BLK1	ND	ug/m3	0.10	0.0095		2
Trichlorofluoromethane	B161965-BLK1	ND	ug/m3	0.050	0.0057		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B161965-BLK1	ND	ug/m3	0.10	0.0078		2
Vinyl chloride	B161965-BLK1	ND	ug/m3	0.020	0.0046		2
p- & m-Xylenes	B161965-BLK1	ND	ug/m3	0.050	0.0082		2
o-Xylene	B161965-BLK1	ND	ug/m3	0.050	0.0044		2
Total Xylenes	B161965-BLK1	ND	ug/m3	0.10	0.013		2
4-Bromofluorobenzene (Surrogate)	B161965-BLK1	90.3	%	50 - 150 (LCL - UCL)			2
QC Batch ID: B162459							

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Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162459							
Acetone	B162459-BLK1	ND	ug/m3	5.0	0.43		3
Acrylonitrile	B162459-BLK1	ND	ug/m3	2.0	0.27		3
Allyl chloride	B162459-BLK1	ND	ug/m3	2.0	0.28		3
Benzene	B162459-BLK1	ND	ug/m3	2.0	0.21		3
Benzyl chloride	B162459-BLK1	ND	ug/m3	10	0.26		3
Bromodichloromethane	B162459-BLK1	ND	ug/m3	5.0	0.45		3
Bromoform	B162459-BLK1	ND	ug/m3	10	0.86		3
Bromomethane	B162459-BLK1	ND	ug/m3	2.0	0.47		3
1,3-Butadiene	B162459-BLK1	ND	ug/m3	2.0	0.22		3
Carbon disulfide	B162459-BLK1	ND	ug/m3	2.0	0.19		3
Carbon tetrachloride	B162459-BLK1	ND	ug/m3	5.0	0.45		3
Chlorobenzene	B162459-BLK1	ND	ug/m3	5.0	0.40		3
Chloroethane	B162459-BLK1	ND	ug/m3	2.0	0.53		3
Chloroform	B162459-BLK1	ND	ug/m3	5.0	0.54		3
Chloromethane	B162459-BLK1	ND	ug/m3	2.0	0.21		3
Cyclohexane	B162459-BLK1	ND	ug/m3	2.0	0.38		3
Dibromochloromethane	B162459-BLK1	ND	ug/m3	5.0	0.43		3
1,2-Dibromoethane	B162459-BLK1	ND	ug/m3	5.0	0.58		3
1,2-Dichlorobenzene	B162459-BLK1	ND	ug/m3	5.0	0.50		3
1,3-Dichlorobenzene	B162459-BLK1	ND	ug/m3	5.0	0.31		3
1,4-Dichlorobenzene	B162459-BLK1	ND	ug/m3	5.0	0.50		3
Dichlorodifluoromethane	B162459-BLK1	ND	ug/m3	5.0	0.45		3
1,1-Dichloroethane	B162459-BLK1	ND	ug/m3	5.0	0.23		3
1,2-Dichloroethane	B162459-BLK1	ND	ug/m3	5.0	0.26		3
1,1-Dichloroethene	B162459-BLK1	ND	ug/m3	5.0	0.31		3
cis-1,2-Dichloroethene	B162459-BLK1	ND	ug/m3	2.0	0.32		3
trans-1,2-Dichloroethene	B162459-BLK1	ND	ug/m3	2.0	0.27		3
1,2-Dichloropropane	B162459-BLK1	ND	ug/m3	5.0	0.32		3
cis-1,3-Dichloropropene	B162459-BLK1	ND	ug/m3	5.0	0.30		3
trans-1,3-Dichloropropene	B162459-BLK1	ND	ug/m3	5.0	0.40		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162459-BLK1	ND	ug/m3	5.0	0.91		3
1,1-Difluoroethane	B162459-BLK1	ND	ug/m3	5.0	2.0		3
1,4-Dioxane	B162459-BLK1	ND	ug/m3	2.0	0.33		3
Ethanol	B162459-BLK1	ND	ug/m3	2.0	0.42		3

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Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162459							
Ethyl acetate	B162459-BLK1	ND	ug/m3	2.0	0.33		3
Ethylbenzene	B162459-BLK1	ND	ug/m3	5.0	0.32		3
1-Ethyl-4-methylbenzene	B162459-BLK1	ND	ug/m3	5.0	0.30		3
n-Heptane	B162459-BLK1	ND	ug/m3	2.0	0.34		3
Hexachlorobutadiene	B162459-BLK1	ND	ug/m3	10	1.5		3
Hexane	B162459-BLK1	ND	ug/m3	5.0	0.20		3
2-Hexanone	B162459-BLK1	ND	ug/m3	5.0	0.29		3
Isopropyl alcohol	B162459-BLK1	ND	ug/m3	2.0	0.32		3
Methylene chloride	B162459-BLK1	ND	ug/m3	10	0.40		3
Methyl ethyl ketone	B162459-BLK1	ND	ug/m3	2.0	0.19		3
Methyl isobutyl ketone	B162459-BLK1	ND	ug/m3	5.0	0.26		3
Methyl t-butyl ether	B162459-BLK1	ND	ug/m3	2.0	0.28		3
Propylene	B162459-BLK1	ND	ug/m3	2.0	0.25		3
Styrene	B162459-BLK1	ND	ug/m3	5.0	0.24		3
1,1,2,2-Tetrachloroethane	B162459-BLK1	ND	ug/m3	5.0	0.47		3
Tetrachloroethene	B162459-BLK1	ND	ug/m3	2.0	0.50		3
Tetrahydrofuran	B162459-BLK1	ND	ug/m3	2.0	0.27		3
Toluene	B162459-BLK1	ND	ug/m3	2.0	0.27		3
1,2,4-Trichlorobenzene	B162459-BLK1	ND	ug/m3	10	0.82		3
1,1,1-Trichloroethane	B162459-BLK1	ND	ug/m3	5.0	0.39		3
1,1,2-Trichloroethane	B162459-BLK1	ND	ug/m3	5.0	0.61		3
Trichloroethene	B162459-BLK1	ND	ug/m3	2.0	0.54		3
Trichlorofluoromethane	B162459-BLK1	ND	ug/m3	5.0	0.47		3
1,1,2-Trichloro-1,2,2-trifluoroethane	B162459-BLK1	ND	ug/m3	5.0	0.55		3
1,2,4-Trimethylbenzene	B162459-BLK1	ND	ug/m3	5.0	0.40		3
1,3,5-Trimethylbenzene	B162459-BLK1	ND	ug/m3	5.0	0.40		3
Vinyl acetate	B162459-BLK1	ND	ug/m3	2.0	0.33		3
Vinyl chloride	B162459-BLK1	ND	ug/m3	2.0	0.39		3
p- & m-Xylenes	B162459-BLK1	ND	ug/m3	5.0	0.61		3
o-Xylene	B162459-BLK1	ND	ug/m3	5.0	0.30		3
Total Xylenes	B162459-BLK1	ND	ug/m3	10	0.91		3
4-Bromofluorobenzene (Surrogate)	B162459-BLK1	92.8	%	70 - 130 (LCL - UCL)			3

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Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
3	B162459-BLK1	PB	EPA-TO-15	03/22/23	03/22/23 16:52	BEP	MS-A2	1

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 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B161871											
Benzene	B161871-BS1	LCS	14.856	15.974	ug/m3	93.0		70 - 130			1
	B161871-BSD1	LCSD	15.047	15.974	ug/m3	94.2	1.3	70 - 130	30		2
Chloroform	B161871-BS1	LCS	22.899	24.413	ug/m3	93.8		70 - 130			1
	B161871-BSD1	LCSD	22.850	24.413	ug/m3	93.6	0.2	70 - 130	30		2
Ethylbenzene	B161871-BS1	LCS	20.625	21.711	ug/m3	95.0		70 - 130			1
	B161871-BSD1	LCSD	20.538	21.711	ug/m3	94.6	0.4	70 - 130	30		2
Tetrachloroethene	B161871-BS1	LCS	31.132	33.913	ug/m3	91.8		70 - 130			1
	B161871-BSD1	LCSD	30.589	33.913	ug/m3	90.2	1.8	70 - 130	30		2
Toluene	B161871-BS1	LCS	18.616	18.842	ug/m3	98.8		70 - 130			1
	B161871-BSD1	LCSD	18.352	18.842	ug/m3	97.4	1.4	70 - 130	30		2
Trichloroethene	B161871-BS1	LCS	24.665	26.869	ug/m3	91.8		70 - 130			1
	B161871-BSD1	LCSD	24.934	26.869	ug/m3	92.8	1.1	70 - 130	30		2
Trichlorofluoromethane	B161871-BS1	LCS	26.013	28.092	ug/m3	92.6		70 - 130			1
	B161871-BSD1	LCSD	26.575	28.092	ug/m3	94.6	2.1	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B161871-BS1	LCS	34.563	38.318	ug/m3	90.2		70 - 130			1
	B161871-BSD1	LCSD	34.946	38.318	ug/m3	91.2	1.1	70 - 130	30		2
p- & m-Xylenes	B161871-BS1	LCS	41.815	43.421	ug/m3	96.3		70 - 130			1
	B161871-BSD1	LCSD	41.945	43.421	ug/m3	96.6	0.3	70 - 130	30		2
o-Xylene	B161871-BS1	LCS	21.016	21.711	ug/m3	96.8		70 - 130			1
	B161871-BSD1	LCSD	21.146	21.711	ug/m3	97.4	0.6	70 - 130	30		2
Total Xylenes	B161871-BS1	LCS	62.831	65.132	ug/m3	96.5		70 - 130			1
	B161871-BSD1	LCSD	63.091	65.132	ug/m3	96.9	0.4	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161871-BS1	LCS	71.7	71.6	ug/m3	100		70 - 130			1
	B161871-BSD1	LCSD	71.1	71.6	ug/m3	99.4	0.8	70 - 130			2
QC Batch ID: B161965											
Benzene	B161965-BS1	LCS	0.28459	0.31948	ug/m3	89.1		70 - 130			3
	B161965-BSD1	LCSD	0.28874	0.31948	ug/m3	90.4	1.4	70 - 130	30		4
Benzyl chloride	B161965-BS1	LCS	0.44524	0.51772	ug/m3	86.0		70 - 130		J	3
	B161965-BSD1	LCSD	0.51260	0.51772	ug/m3	99.0	14.1	70 - 130	30		4
Carbon tetrachloride	B161965-BS1	LCS	0.57943	0.62913	ug/m3	92.1		70 - 130			3
	B161965-BSD1	LCSD	0.59591	0.62913	ug/m3	94.7	2.8	70 - 130	30		4
Chlorobenzene	B161965-BS1	LCS	0.52057	0.46036	ug/m3	113		70 - 130			3
	B161965-BSD1	LCSD	0.43366	0.46036	ug/m3	94.2	18.2	70 - 130	30		4
Chloroform	B161965-BS1	LCS	0.45744	0.48825	ug/m3	93.7		70 - 130			3
	B161965-BSD1	LCSD	0.47199	0.48825	ug/m3	96.7	3.1	70 - 130	30		4
1,2-Dibromoethane	B161965-BS1	LCS	0.72816	0.76835	ug/m3	94.8		70 - 130			3
	B161965-BSD1	LCSD	0.73854	0.76835	ug/m3	96.1	1.4	70 - 130	30		4

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 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161965											
1,2-Dichlorobenzene	B161965-BS1	LCS	0.59534	0.60124	ug/m3	99.0		70 - 130			3
	B161965-BSD1	LCSD	0.61603	0.60124	ug/m3	102	3.4	70 - 130	30		4
1,3-Dichlorobenzene	B161965-BS1	LCS	0.54616	0.60124	ug/m3	90.8		70 - 130			3
	B161965-BSD1	LCSD	0.59113	0.60124	ug/m3	98.3	7.9	70 - 130	30		4
1,4-Dichlorobenzene	B161965-BS1	LCS	0.56606	0.60124	ug/m3	94.1		70 - 130			3
	B161965-BSD1	LCSD	0.61849	0.60124	ug/m3	103	8.9	70 - 130	30		4
1,1-Dichloroethane	B161965-BS1	LCS	0.37479	0.40474	ug/m3	92.6		70 - 130			3
	B161965-BSD1	LCSD	0.37762	0.40474	ug/m3	93.3	0.8	70 - 130	30		4
1,2-Dichloroethane	B161965-BS1	LCS	0.35629	0.40474	ug/m3	88.0		70 - 130			3
	B161965-BSD1	LCSD	0.36406	0.40474	ug/m3	89.9	2.2	70 - 130	30		4
1,1-Dichloroethene	B161965-BS1	LCS	0.36589	0.39649	ug/m3	92.3		70 - 130			3
	B161965-BSD1	LCSD	0.36684	0.39649	ug/m3	92.5	0.3	70 - 130	30		4
cis-1,2-Dichloroethene	B161965-BS1	LCS	0.36299	0.39649	ug/m3	91.6		70 - 130			3
	B161965-BSD1	LCSD	0.37580	0.39649	ug/m3	94.8	3.5	70 - 130	30		4
Methylene chloride	B161965-BS1	LCS	0.34776	0.34737	ug/m3	100		70 - 130			3
	B161965-BSD1	LCSD	0.34859	0.34737	ug/m3	100	0.2	70 - 130	30		4
Tetrachloroethene	B161965-BS1	LCS	0.63742	0.67825	ug/m3	94.0		70 - 130			3
	B161965-BSD1	LCSD	0.65255	0.67825	ug/m3	96.2		70 - 130	30		4
Toluene	B161965-BS1	LCS	0.34572	0.37684	ug/m3	91.7		70 - 130			3
	B161965-BSD1	LCSD	0.35182	0.37684	ug/m3	93.4	1.8	70 - 130	30		4
1,1,1-Trichloroethane	B161965-BS1	LCS	0.51103	0.54562	ug/m3	93.7		70 - 130			3
	B161965-BSD1	LCSD	0.51736	0.54562	ug/m3	94.8	1.2	70 - 130	30		4
1,1,2-Trichloroethane	B161965-BS1	LCS	0.51436	0.54562	ug/m3	94.3		70 - 130			3
	B161965-BSD1	LCSD	0.51714	0.54562	ug/m3	94.8	0.5	70 - 130	30		4
Trichloroethene	B161965-BS1	LCS	0.50454	0.53737	ug/m3	93.9		70 - 130			3
	B161965-BSD1	LCSD	0.50459	0.53737	ug/m3	93.9	0.0	70 - 130	30		4
Vinyl chloride	B161965-BS1	LCS	0.24958	0.25562	ug/m3	97.6		70 - 130			3
	B161965-BSD1	LCSD	0.24230	0.25562	ug/m3	94.8	3.0	70 - 130	30		4
p- & m-Xylenes	B161965-BS1	LCS	0.79978	0.86843	ug/m3	92.1		70 - 130			3
	B161965-BSD1	LCSD	0.84150	0.86843	ug/m3	96.9	5.1	70 - 130	30		4
o-Xylene	B161965-BS1	LCS	0.40430	0.43421	ug/m3	93.1		70 - 130			3
	B161965-BSD1	LCSD	0.41472	0.43421	ug/m3	95.5	2.5	70 - 130	30		4
Total Xylenes	B161965-BS1	LCS	1.2041	1.3026	ug/m3	92.4		70 - 130			3
	B161965-BSD1	LCSD	1.2562	1.3026	ug/m3	96.4	4.2	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B161965-BS1	LCS	3.58	3.58	ug/m3	100		50 - 150			3
	B161965-BSD1	LCSD	3.57	3.58	ug/m3	99.9	0.2	50 - 150			4

QC Batch ID: B162459

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B162459											
Benzene	B162459-BS1	LCS	16.102	15.974	ug/m3	101		70 - 130			5
	B162459-BSD1	LCSD	16.261	15.974	ug/m3	102	1.0	70 - 130	30		6
Chloroform	B162459-BS1	LCS	23.339	24.413	ug/m3	95.6		70 - 130			5
	B162459-BSD1	LCSD	23.387	24.413	ug/m3	95.8	0.2	70 - 130	30		6
Ethylbenzene	B162459-BS1	LCS	23.708	21.711	ug/m3	109		70 - 130			5
	B162459-BSD1	LCSD	23.751	21.711	ug/m3	109	0.2	70 - 130	30		6
Tetrachloroethene	B162459-BS1	LCS	34.455	33.913	ug/m3	102		70 - 130			5
	B162459-BSD1	LCSD	34.320	33.913	ug/m3	101	0.4	70 - 130	30		6
Toluene	B162459-BS1	LCS	19.822	18.842	ug/m3	105		70 - 130			5
	B162459-BSD1	LCSD	19.709	18.842	ug/m3	105	0.6	70 - 130	30		6
Trichloroethene	B162459-BS1	LCS	27.406	26.869	ug/m3	102		70 - 130			5
	B162459-BSD1	LCSD	27.137	26.869	ug/m3	101	1.0	70 - 130	30		6
Trichlorofluoromethane	B162459-BS1	LCS	26.406	28.092	ug/m3	94.0		70 - 130			5
	B162459-BSD1	LCSD	26.799	28.092	ug/m3	95.4	1.5	70 - 130	30		6
1,1,2-Trichloro-1,2,2-trifluoroethane	B162459-BS1	LCS	37.705	38.318	ug/m3	98.4		70 - 130			5
	B162459-BSD1	LCSD	38.165	38.318	ug/m3	99.6	1.2	70 - 130	30		6
p- & m-Xylenes	B162459-BS1	LCS	47.720	43.421	ug/m3	110		70 - 130			5
	B162459-BSD1	LCSD	48.284	43.421	ug/m3	111	1.2	70 - 130	30		6
o-Xylene	B162459-BS1	LCS	23.665	21.711	ug/m3	109		70 - 130			5
	B162459-BSD1	LCSD	23.838	21.711	ug/m3	110	0.7	70 - 130	30		6
Total Xylenes	B162459-BS1	LCS	71.385	65.132	ug/m3	110		70 - 130			5
	B162459-BSD1	LCSD	72.123	65.132	ug/m3	111	1.0	70 - 130	30		6
4-Bromofluorobenzene (Surrogate)	B162459-BS1	LCS	73.0	71.6	ug/m3	102		70 - 130			5
	B162459-BSD1	LCSD	72.1	71.6	ug/m3	101	1.3	70 - 130			6

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23	21:15	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23	21:46	BEP	MS-A1	1
5	B162459-BS1	LCS	EPA-TO-15	03/22/23	03/22/23	15:35	BEP	MS-A2	1
6	B162459-BSD1	LCSD	EPA-TO-15	03/22/23	03/22/23	16:15	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B162517

Methane (CH4)	B162517-BLK1	ND	ppmv	2.0	1.8		1
---------------	--------------	----	------	-----	-----	--	---

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162517-BLK1	PB	ASTM-D1946	03/23/23	03/23/23 12:44	RMK	GC-A1	1

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 Long Beach, CA 90804

Reported: 04/03/2023 13:23
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162517											
Methane (CH4)	B162517-BS1	LCS	18877	18000	ppmv	105		70 - 130			1
	B162517-BSD1	LCSD	18876	18000	ppmv	105	0.0	70 - 130	30		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162517-BS1	LCS	ASTM-D1946	03/23/23	03/23/23	12:03	RMK	GC-A1	1
2	B162517-BSD1	LCSD	ASTM-D1946	03/23/23	03/23/23	12:24	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:23
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

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



Date of Report: 04/03/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2305063
Invoice ID: B472255, B472844

Enclosed are the results of analyses for samples received by the laboratory on 3/13/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001410935

Sincerely,

Contact Person: Ragen Schallock
Client Service Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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2305063

AIR: CHAIN-OF-CUSTODY / Analytical Re
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be complete

Section A Required Client Information Company: Roux Address: 5150 E. Pacific Coast Hwy, Site 450 Long Beach, CA 20904 Email To: air@paceanalytical.com Phone: 562-448-8824 Fax: Requested Date/Time/AT: Standard		Section B Required Project Information Report To: April McCaule Copy To: Purchase Order No.: Project Name: City Terrace Project Number: 2855		Section C Invoice Information Attention: Roux Accounts Payable (rouxap@rouxinc.com) Company Name: Roux Address: 5150 E. Pacific Coast Hwy, Site 450, Long Beach, CA 90804 Pace Quote Reference: 00132481 & 00132033 Pace Project Manager/Sales Rep: Brianna Schulte / Dawn Grnor Pace Profile #		Page: 1 of 1 Program: <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other Location of Sampling by State: CA Reporting Method: <input type="checkbox"/> PWB <input type="checkbox"/> PWW <input type="checkbox"/> Other																					
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE AA-28-1 IA-28-1 IA-28-2 SU-28-1 SU-28-2		Valid Data Codes: MEDIA CODE T1: Low Volume Can T2: Low Volume Can T3: Low Volume Can T4: High Volume PAF Other:		COLLECTED <table border="1"> <thead> <tr> <th>DATE</th> <th>TIME</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td>3/10/23</td> <td>1452</td> <td>3/10/23</td> <td>1452</td> </tr> <tr> <td>1455</td> <td>1213</td> <td></td> <td></td> </tr> <tr> <td>1456</td> <td>1153</td> <td></td> <td></td> </tr> <tr> <td>3/10/23</td> <td>1446</td> <td></td> <td></td> </tr> </tbody> </table>		DATE	TIME	DATE	TIME	3/10/23	1452	3/10/23	1452	1455	1213			1456	1153			3/10/23	1446			RELINQUISHED BY / AFFILIATION Cameron Jones (Roux) 3/10/23 1603 Alex Perdikis (Roux) 3/10/23 1630	
DATE	TIME	DATE	TIME																								
3/10/23	1452	3/10/23	1452																								
1455	1213																										
1456	1153																										
3/10/23	1446																										
RECEIVED BY / AFFILIATION Alex Perdikis (Roux) 3/10/23 1603 Emergency Proc 3/15/23 0930		ACCEPTED BY / AFFILIATION Alex Perdikis (Roux) 3/10/23 1603 Emergency Proc 3/15/23 0930		DATE 3/10/23 1603 3/15/23 0930																							
TIME 1452 1213 1153 1446		CONTROL NUMBER 233 5267 5816 13686 4323 886 11451 353		TEMP IN °C Received on Ice: Y/N Sealed Cooler: Y/N Samples Intact: Y/N																							
Method: TO-15 (Methane) TO-14 (PCBs) TO-13 (PAH) TO-15 (SEM) TO-15 (SMA)		Flow Control Number 233 5267 5816 13686 4323 886 11451 353		SAMPLE CONDITIONS Temp in °C: _____ Received on Ice: Y/N Sealed Cooler: Y/N Samples Intact: Y/N																							
Comments: Did not collect SU-28-1 on 3/10/23		CHK BY DISTRIBUTION [Signature]		SUB-OUT [Signature]																							
SAMPLER NAME AND SIGNATURE NAME: CAMERON JONES SIGNATURE: [Signature] DATE SIGNED: 3/10/23		Signature of Sampler [Signature]		Signature of Receiver [Signature]																							

FC046Rev 01.03Feb2010

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 Of 1	
Submission #: <u>23-05063</u>					
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u> </u> Container: <u>Summa</u> Thermometer ID: <u> </u> Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Date/Time: <u>3-13-23</u> Analyst Init: <u>SMH0930</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 501										
QT EPA 508/608.3/8091A										
QT EPA 515.1/5151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz IAR										
SOIL SLEEVE										
PCII VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT <u>Summa Canister 1.9L</u>										
SUMMA CANISTER <u>6L</u>										

Comments: (2 says 1.9L)
 Sample Numbering Completed By: WAS Date/Time: 3/13/23 1043
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information						
2305063-01	COC Number:	---		Receive Date:	03/13/2023 09:30		
	Project Number:	---		Sampling Date:	03/09/2023 14:52		
	Sampling Location:	---		Sample Depth:	---		
	Sampling Point:	AA-28-1		Lab Matrix:	Air		
	Sampled By:	Cameron Joone		Sample Type:	Vapor or Air		
	<hr/>						
2305063-02	COC Number:	---		Receive Date:	03/13/2023 09:30		
	Project Number:	---		Sampling Date:	03/09/2023 12:13		
	Sampling Location:	---		Sample Depth:	---		
	Sampling Point:	IA-28-1		Lab Matrix:	Air		
	Sampled By:	Cameron Joone		Sample Type:	Vapor or Air		
	<hr/>						
2305063-03	COC Number:	---		Receive Date:	03/13/2023 09:30		
	Project Number:	---		Sampling Date:	03/09/2023 11:53		
	Sampling Location:	---		Sample Depth:	---		
	Sampling Point:	IA-28-2		Lab Matrix:	Air		
	Sampled By:	Cameron Joone		Sample Type:	Vapor or Air		
	<hr/>						
2305063-04	COC Number:	---		Receive Date:	03/13/2023 09:30		
	Project Number:	---		Sampling Date:	03/10/2023 14:40		
	Sampling Location:	---		Sample Depth:	---		
	Sampling Point:	SV-28-2		Lab Matrix:	Air		
	Sampled By:	Cameron Joone		Sample Type:	Vapor or Air		
	<hr/>						

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305063-01		Client Sample Name: AA-28-1, 3/9/2023 2:52:00PM, Cameron Joone						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	9.1	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	7.7	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.67	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.62	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.2	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305063-01		Client Sample Name: AA-28-1, 3/9/2023 2:52:00PM, Cameron Joone						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	0.56	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	6.4	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.26	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	2.1	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Methyl ethyl ketone	0.83	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305063-01		Client Sample Name: AA-28-1, 3/9/2023 2:52:00PM, Cameron Joone						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	1.5	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.6	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.4	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	0.87	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	0.93	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.34	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1
Total Xylenes	1.3	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	95.3	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	106	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2

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Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305063-01	Client Sample Name: AA-28-1, 3/9/2023 2:52:00PM, Cameron Joone						
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	03/23/23 13:06	03/23/23 16:33	BEP	MS-A2	1	B162553 EPA TO-15
2	EPA-TO-15-SIM	03/15/23 13:22	03/16/23 06:50	BEP	MS-A1	1	B161965 EPA TO-15

DCN = Data Continuation Number

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Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2305063-01	Client Sample Name: AA-28-1, 3/9/2023 2:52:00PM, Cameron Joone
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	28	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/23/23 08:00	03/23/23 20:14	RMK	GC-A1	1	B162558	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305063-02		Client Sample Name: IA-28-1, 3/9/2023 12:13:00PM, Cameron Joone						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	110	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	100	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.70	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.70	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	0.44	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.0	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.8	ug/m3	1.0	0.10	EPA-TO-15-SIM	ND	A01	2

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Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305063-02		Client Sample Name: IA-28-1, 3/9/2023 12:13:00PM, Cameron Joone						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	2.8	ug/m3	5.0	2.0	EPA-TO-15	ND	J	1
1,1-Difluoroethane	2.6	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	260	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	8.5	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.43	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	47	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.8	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305063-02		Client Sample Name: IA-28-1, 3/9/2023 12:13:00PM, Cameron Joone						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	1.1	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	4.5	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	4.2	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	0.59	ug/m3	5.0	0.40	EPA-TO-15	ND	J	1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.3	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.4	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.52	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
o-Xylene	0.58	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	1.8	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	2.0	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	95.1	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	97.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	112	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305063-02		Client Sample Name: IA-28-1, 3/9/2023 12:13:00PM, Cameron Joone							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/23/23 13:06	03/23/23 17:19	BEP	MS-A2	1	B162553	EPA TO-15	
2	EPA-TO-15-SIM	03/15/23 13:22	03/16/23 08:34	BEP	MS-A1	20	B161965	EPA TO-15	
3	EPA-TO-15-SIM	03/15/23 13:22	03/16/23 07:27	BEP	MS-A1	1	B161965	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2305063-02	Client Sample Name: IA-28-1, 3/9/2023 12:13:00PM, Cameron Joone
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2100	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/23/23 08:00	03/23/23 20:35	RMK	GC-A1	1	B162558	No Prep

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305063-03		Client Sample Name: IA-28-2, 3/9/2023 11:53:00AM, Cameron Joone						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	110	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	87	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.70	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.67	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.2	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.5	ug/m3	1.0	0.10	EPA-TO-15-SIM	ND	A01	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305063-03		Client Sample Name: IA-28-2, 3/9/2023 11:53:00AM, Cameron Joone						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	0.15	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	2.8	ug/m3	5.0	2.0	EPA-TO-15	ND	J	1
1,1-Difluoroethane	2.3	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	280	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	8.2	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.36	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	47	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.7	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305063-03		Client Sample Name: IA-28-2, 3/9/2023 11:53:00AM, Cameron Joone						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	0.95	ug/m3	2.0	0.50	EPA-TO-15	ND	J	1
Tetrachloroethene	0.93	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	4.3	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	3.7	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	0.59	ug/m3	5.0	0.40	EPA-TO-15	ND	J	1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.2	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.2	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.48	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
o-Xylene	0.50	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	1.7	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	1.7	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	95.9	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	95.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	112	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Reported: 04/03/2023 12:51
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305063-03		Client Sample Name: IA-28-2, 3/9/2023 11:53:00AM, Cameron Joone							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/23/23 13:06	03/23/23 18:03	BEP	MS-A2	1	B162553	EPA TO-15	
2	EPA-TO-15-SIM	03/15/23 13:22	03/16/23 09:05	BEP	MS-A1	20	B161965	EPA TO-15	
3	EPA-TO-15-SIM	03/15/23 13:22	03/16/23 08:03	BEP	MS-A1	1	B161965	EPA TO-15	

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Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2305063-03	Client Sample Name: IA-28-2, 3/9/2023 11:53:00AM, Cameron Joone
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	4.2	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/23/23 08:00	03/23/23 20:55	RMK	GC-A1	1	B162558	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305063-04		Client Sample Name: SV-28-2, 3/10/2023 2:40:00PM, Cameron Joone						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	190	ug/m3	80	6.8	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	2
Allyl chloride	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	2
Benzene	10	ug/m3	3.2	0.33	EPA-TO-15	ND	A01	2
Benzyl chloride	ND	ug/m3	16	0.41	EPA-TO-15	ND	A01	2
Bromodichloromethane	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	2
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	2
Bromomethane	ND	ug/m3	3.2	0.75	EPA-TO-15	ND	A01	2
1,3-Butadiene	ND	ug/m3	3.2	0.35	EPA-TO-15	ND	A01	2
Carbon disulfide	11	ug/m3	3.2	0.30	EPA-TO-15	ND	A01	2
Carbon tetrachloride	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	2
Chlorobenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	2
Chloroethane	ND	ug/m3	3.2	0.84	EPA-TO-15	ND	A01	2
Chloroform	ND	ug/m3	8.0	0.86	EPA-TO-15	ND	A01	2
Chloromethane	ND	ug/m3	3.2	0.33	EPA-TO-15	ND	A01	2
Cyclohexane	1.1	ug/m3	3.2	0.60	EPA-TO-15	ND	J,A01	2
Dibromochloromethane	ND	ug/m3	8.0	0.68	EPA-TO-15	ND	A01	2
1,2-Dibromoethane	ND	ug/m3	8.0	0.92	EPA-TO-15	ND	A01	2
1,2-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	2
1,3-Dichlorobenzene	ND	ug/m3	8.0	0.49	EPA-TO-15	ND	A01	2
1,4-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	2
Dichlorodifluoromethane	2.5	ug/m3	8.0	0.72	EPA-TO-15	ND	J,A01	2
1,1-Dichloroethane	ND	ug/m3	8.0	0.37	EPA-TO-15	ND	A01	2
1,2-Dichloroethane	ND	ug/m3	8.0	0.41	EPA-TO-15	ND	A01	2
1,1-Dichloroethene	ND	ug/m3	8.0	0.49	EPA-TO-15	ND	A01	2
cis-1,2-Dichloroethene	ND	ug/m3	3.2	0.51	EPA-TO-15	ND	A01	2
trans-1,2-Dichloroethene	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	2
1,2-Dichloropropane	ND	ug/m3	8.0	0.51	EPA-TO-15	ND	A01	2
cis-1,3-Dichloropropene	ND	ug/m3	8.0	0.48	EPA-TO-15	ND	A01	2
trans-1,3-Dichloropropene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.0	1.4	EPA-TO-15	ND	A01	2
1,1-Difluoroethane	ND	ug/m3	8.0	3.2	EPA-TO-15	ND	A01	2
1,4-Dioxane	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	2

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305063-04		Client Sample Name: SV-28-2, 3/10/2023 2:40:00PM, Cameron Joone						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	21	ug/m3	3.2	0.67	EPA-TO-15	ND	A01	2
Ethyl acetate	6.6	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	2
Ethylbenzene	4.8	ug/m3	8.0	0.51	EPA-TO-15	ND	J,A01	2
1-Ethyl-4-methylbenzene	1.3	ug/m3	8.0	0.48	EPA-TO-15	ND	J,A01	2
n-Heptane	11	ug/m3	3.2	0.54	EPA-TO-15	ND	A01	2
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	2
Hexane	4.6	ug/m3	8.0	0.32	EPA-TO-15	ND	J,A01	2
2-Hexanone	ND	ug/m3	8.0	0.46	EPA-TO-15	ND	A01	2
Isopropyl alcohol	28	ug/m3	3.2	0.51	EPA-TO-15	ND	A01	2
Methylene chloride	ND	ug/m3	16	0.64	EPA-TO-15	ND	A01	2
Methyl ethyl ketone	14	ug/m3	3.2	0.30	EPA-TO-15	ND	A01	2
Methyl isobutyl ketone	0.98	ug/m3	8.0	0.41	EPA-TO-15	ND	J,A01	2
Methyl t-butyl ether	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	2
Propylene	5.8	ug/m3	3.2	0.40	EPA-TO-15	ND	A01	2
Styrene	2.0	ug/m3	8.0	0.38	EPA-TO-15	ND	J,A01	2
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.0	0.75	EPA-TO-15	ND	A01	2
Tetrachloroethene	ND	ug/m3	3.2	0.80	EPA-TO-15	ND	A01	2
Tetrahydrofuran	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	2
Toluene	36	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	2
1,1,1-Trichloroethane	ND	ug/m3	8.0	0.62	EPA-TO-15	ND	A01	2
1,1,2-Trichloroethane	ND	ug/m3	8.0	0.97	EPA-TO-15	ND	A01	2
Trichloroethene	ND	ug/m3	3.2	0.86	EPA-TO-15	ND	A01	2
Trichlorofluoromethane	1.3	ug/m3	8.0	0.75	EPA-TO-15	ND	J,A01	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.0	0.87	EPA-TO-15	ND	A01	2
1,2,4-Trimethylbenzene	2.4	ug/m3	8.0	0.64	EPA-TO-15	ND	J,A01	2
1,3,5-Trimethylbenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	2
Vinyl acetate	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	2
Vinyl chloride	ND	ug/m3	3.2	0.62	EPA-TO-15	ND	A01	2
p- & m-Xylenes	14	ug/m3	8.0	0.97	EPA-TO-15	ND	A01	2
o-Xylene	4.3	ug/m3	8.0	0.48	EPA-TO-15	ND	J,A01	2
Total Xylenes	18	ug/m3	16	1.4	EPA-TO-15	ND	A01	2
4-Bromofluorobenzene (Surrogate)	101	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305063-04	Client Sample Name: SV-28-2, 3/10/2023 2:40:00PM, Cameron Joone							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
4-Bromofluorobenzene (Surrogate)	97.2	%	70 - 130 (LCL - UCL)		EPA-TO-15			2

DCN	Method	Prep Date		Run		Analyst	Instrument	Dilution	QC	
				Date/Time					Batch ID	Prep Method
1	EPA-TO-15	03/16/23	13:56	03/17/23	10:03	BEP	MS-A2	15.900	B162071	EPA TO-15
2	EPA-TO-15	03/14/23	13:48	03/15/23	04:17	BEP	MS-A1	1.590	B161871	EPA TO-15

DCN = Data Continuation Number

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Reported: 04/03/2023 12:51
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 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161871							
Acrylonitrile	B161871-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B161871-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B161871-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B161871-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B161871-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B161871-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B161871-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B161871-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B161871-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B161871-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B161871-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B161871-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B161871-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B161871-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B161871-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B161871-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B161871-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B161871-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B161871-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B161871-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B161871-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B161871-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B161871-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B161871-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B161871-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B161871-BLK1	ND	ug/m3	2.0	0.42		1
Ethyl acetate	B161871-BLK1	ND	ug/m3	2.0	0.33		1

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Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161871							
Ethylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B161871-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B161871-BLK1	ND	ug/m3	10	1.5		1
Hexane	B161871-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B161871-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B161871-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B161871-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B161871-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B161871-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B161871-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B161871-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B161871-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B161871-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B161871-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B161871-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B161871-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B161871-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B161871-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B161871-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161871-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B161871-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B161871-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B161871-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B161871-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B161871-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B161871-BLK1	90.5	%	70 - 130 (LCL - UCL)			1
QC Batch ID: B161965							
Acetone	B161965-BLK1	ND	ug/m3	1.0	0.0075		2

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Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161965							
Benzene	B161965-BLK1	ND	ug/m3	0.050	0.0032		2
Benzyl chloride	B161965-BLK1	ND	ug/m3	0.50	0.0052		2
Carbon tetrachloride	B161965-BLK1	ND	ug/m3	0.20	0.0063		2
Chlorobenzene	B161965-BLK1	ND	ug/m3	0.10	0.0079		2
Chloroform	B161965-BLK1	ND	ug/m3	0.050	0.0058		2
1,2-Dibromoethane	B161965-BLK1	ND	ug/m3	0.20	0.014		2
1,2-Dichlorobenzene	B161965-BLK1	ND	ug/m3	0.20	0.011		2
1,3-Dichlorobenzene	B161965-BLK1	ND	ug/m3	0.20	0.013		2
1,4-Dichlorobenzene	B161965-BLK1	ND	ug/m3	0.20	0.016		2
Dichlorodifluoromethane	B161965-BLK1	ND	ug/m3	0.050	0.0052		2
1,1-Dichloroethane	B161965-BLK1	ND	ug/m3	0.050	0.0041		2
1,2-Dichloroethane	B161965-BLK1	ND	ug/m3	0.10	0.0046		2
1,1-Dichloroethene	B161965-BLK1	ND	ug/m3	0.050	0.0078		2
cis-1,2-Dichloroethene	B161965-BLK1	ND	ug/m3	0.050	0.0044		2
trans-1,2-Dichloroethene	B161965-BLK1	ND	ug/m3	0.050	0.0075		2
trans-1,3-Dichloropropene	B161965-BLK1	ND	ug/m3	0.050	0.013		2
1,1-Difluoroethane	B161965-BLK1	ND	ug/m3	5.0	0.0027		2
Ethylbenzene	B161965-BLK1	ND	ug/m3	0.050	0.017		2
Methylene chloride	B161965-BLK1	ND	ug/m3	0.20	0.0077		2
Tetrachloroethene	B161965-BLK1	ND	ug/m3	0.10	0.011		2
Toluene	B161965-BLK1	ND	ug/m3	0.10	0.0062		2
1,1,1-Trichloroethane	B161965-BLK1	ND	ug/m3	0.10	0.0055		2
1,1,2-Trichloroethane	B161965-BLK1	ND	ug/m3	0.10	0.0055		2
Trichloroethene	B161965-BLK1	ND	ug/m3	0.10	0.0095		2
Trichlorofluoromethane	B161965-BLK1	ND	ug/m3	0.050	0.0057		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B161965-BLK1	ND	ug/m3	0.10	0.0078		2
Vinyl chloride	B161965-BLK1	ND	ug/m3	0.020	0.0046		2
p- & m-Xylenes	B161965-BLK1	ND	ug/m3	0.050	0.0082		2
o-Xylene	B161965-BLK1	ND	ug/m3	0.050	0.0044		2
Total Xylenes	B161965-BLK1	ND	ug/m3	0.10	0.013		2
4-Bromofluorobenzene (Surrogate)	B161965-BLK1	90.3	%	50 - 150 (LCL - UCL)			2
QC Batch ID: B162071							
Acetone	B162071-BLK1	ND	ug/m3	5.0	0.43		3

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Reported: 04/03/2023 12:51
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 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162071							
4-Bromofluorobenzene (Surrogate)	B162071-BLK1	93.7	%	70 - 130 (LCL - UCL)			3
QC Batch ID: B162553							
Acetone	B162553-BLK1	ND	ug/m3	5.0	0.43		4
Acrylonitrile	B162553-BLK1	ND	ug/m3	2.0	0.27		4
Allyl chloride	B162553-BLK1	ND	ug/m3	2.0	0.28		4
Benzene	B162553-BLK1	ND	ug/m3	2.0	0.21		4
Benzyl chloride	B162553-BLK1	ND	ug/m3	10	0.26		4
Bromodichloromethane	B162553-BLK1	ND	ug/m3	5.0	0.45		4
Bromoform	B162553-BLK1	ND	ug/m3	10	0.86		4
Bromomethane	B162553-BLK1	ND	ug/m3	2.0	0.47		4
1,3-Butadiene	B162553-BLK1	ND	ug/m3	2.0	0.22		4
Carbon disulfide	B162553-BLK1	ND	ug/m3	2.0	0.19		4
Carbon tetrachloride	B162553-BLK1	ND	ug/m3	5.0	0.45		4
Chlorobenzene	B162553-BLK1	ND	ug/m3	5.0	0.40		4
Chloroethane	B162553-BLK1	ND	ug/m3	2.0	0.53		4
Chloroform	B162553-BLK1	ND	ug/m3	5.0	0.54		4
Chloromethane	B162553-BLK1	ND	ug/m3	2.0	0.21		4
Cyclohexane	B162553-BLK1	ND	ug/m3	2.0	0.38		4
Dibromochloromethane	B162553-BLK1	ND	ug/m3	5.0	0.43		4
1,2-Dibromoethane	B162553-BLK1	ND	ug/m3	5.0	0.58		4
1,2-Dichlorobenzene	B162553-BLK1	ND	ug/m3	5.0	0.50		4
1,3-Dichlorobenzene	B162553-BLK1	ND	ug/m3	5.0	0.31		4
1,4-Dichlorobenzene	B162553-BLK1	ND	ug/m3	5.0	0.50		4
Dichlorodifluoromethane	B162553-BLK1	ND	ug/m3	5.0	0.45		4
1,1-Dichloroethane	B162553-BLK1	ND	ug/m3	5.0	0.23		4
1,2-Dichloroethane	B162553-BLK1	ND	ug/m3	5.0	0.26		4
1,1-Dichloroethene	B162553-BLK1	ND	ug/m3	5.0	0.31		4
cis-1,2-Dichloroethene	B162553-BLK1	ND	ug/m3	2.0	0.32		4
trans-1,2-Dichloroethene	B162553-BLK1	ND	ug/m3	2.0	0.27		4
1,2-Dichloropropane	B162553-BLK1	ND	ug/m3	5.0	0.32		4
cis-1,3-Dichloropropene	B162553-BLK1	ND	ug/m3	5.0	0.30		4
trans-1,3-Dichloropropene	B162553-BLK1	ND	ug/m3	5.0	0.40		4
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162553-BLK1	ND	ug/m3	5.0	0.91		4

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 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162553							
1,1-Difluoroethane	B162553-BLK1	ND	ug/m3	5.0	2.0		4
1,4-Dioxane	B162553-BLK1	ND	ug/m3	2.0	0.33		4
Ethanol	B162553-BLK1	ND	ug/m3	2.0	0.42		4
Ethyl acetate	B162553-BLK1	ND	ug/m3	2.0	0.33		4
Ethylbenzene	B162553-BLK1	ND	ug/m3	5.0	0.32		4
1-Ethyl-4-methylbenzene	B162553-BLK1	ND	ug/m3	5.0	0.30		4
n-Heptane	B162553-BLK1	ND	ug/m3	2.0	0.34		4
Hexachlorobutadiene	B162553-BLK1	ND	ug/m3	10	1.5		4
Hexane	B162553-BLK1	ND	ug/m3	5.0	0.20		4
2-Hexanone	B162553-BLK1	ND	ug/m3	5.0	0.29		4
Isopropyl alcohol	B162553-BLK1	ND	ug/m3	2.0	0.32		4
Methylene chloride	B162553-BLK1	ND	ug/m3	10	0.40		4
Methyl ethyl ketone	B162553-BLK1	ND	ug/m3	2.0	0.19		4
Methyl isobutyl ketone	B162553-BLK1	ND	ug/m3	5.0	0.26		4
Methyl t-butyl ether	B162553-BLK1	ND	ug/m3	2.0	0.28		4
Propylene	B162553-BLK1	ND	ug/m3	2.0	0.25		4
Styrene	B162553-BLK1	ND	ug/m3	5.0	0.24		4
1,1,2,2-Tetrachloroethane	B162553-BLK1	ND	ug/m3	5.0	0.47		4
Tetrachloroethene	B162553-BLK1	ND	ug/m3	2.0	0.50		4
Tetrahydrofuran	B162553-BLK1	ND	ug/m3	2.0	0.27		4
Toluene	B162553-BLK1	ND	ug/m3	2.0	0.27		4
1,2,4-Trichlorobenzene	B162553-BLK1	ND	ug/m3	10	0.82		4
1,1,1-Trichloroethane	B162553-BLK1	ND	ug/m3	5.0	0.39		4
1,1,2-Trichloroethane	B162553-BLK1	ND	ug/m3	5.0	0.61		4
Trichloroethene	B162553-BLK1	ND	ug/m3	2.0	0.54		4
Trichlorofluoromethane	B162553-BLK1	ND	ug/m3	5.0	0.47		4
1,1,2-Trichloro-1,2,2-trifluoroethane	B162553-BLK1	ND	ug/m3	5.0	0.55		4
1,2,4-Trimethylbenzene	B162553-BLK1	ND	ug/m3	5.0	0.40		4
1,3,5-Trimethylbenzene	B162553-BLK1	ND	ug/m3	5.0	0.40		4
Vinyl acetate	B162553-BLK1	ND	ug/m3	2.0	0.33		4
Vinyl chloride	B162553-BLK1	ND	ug/m3	2.0	0.39		4
p- & m-Xylenes	B162553-BLK1	ND	ug/m3	5.0	0.61		4
o-Xylene	B162553-BLK1	ND	ug/m3	5.0	0.30		4
Total Xylenes	B162553-BLK1	ND	ug/m3	10	0.91		4

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162553							
4-Bromofluorobenzene (Surrogate)	B162553-BLK1	93.5	%	70 - 130 (LCL - UCL)			4

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Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 12:51
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1

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Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
3	B162071-BLK1	PB	EPA-TO-15	03/16/23	03/16/23 21:00	BEP	MS-A2	1
3	B162071-BLK1	PB	EPA-TO-15	03/16/23	03/16/23 21:00	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 12:51
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run	Analyst	Instrument	Dilution
					Date Time			
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1

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Long Beach, CA 90804

Reported: 04/03/2023 12:51
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1
4	B162553-BLK1	PB	EPA-TO-15	03/23/23	03/23/23 15:47	BEP	MS-A2	1

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Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B161871											
Benzene	B161871-BS1	LCS	14.856	15.974	ug/m3	93.0		70 - 130			1
	B161871-BSD1	LCSD	15.047	15.974	ug/m3	94.2	1.3	70 - 130	30		2
Chloroform	B161871-BS1	LCS	22.899	24.413	ug/m3	93.8		70 - 130			1
	B161871-BSD1	LCSD	22.850	24.413	ug/m3	93.6	0.2	70 - 130	30		2
Ethylbenzene	B161871-BS1	LCS	20.625	21.711	ug/m3	95.0		70 - 130			1
	B161871-BSD1	LCSD	20.538	21.711	ug/m3	94.6	0.4	70 - 130	30		2
Tetrachloroethene	B161871-BS1	LCS	31.132	33.913	ug/m3	91.8		70 - 130			1
	B161871-BSD1	LCSD	30.589	33.913	ug/m3	90.2	1.8	70 - 130	30		2
Toluene	B161871-BS1	LCS	18.616	18.842	ug/m3	98.8		70 - 130			1
	B161871-BSD1	LCSD	18.352	18.842	ug/m3	97.4	1.4	70 - 130	30		2
Trichloroethene	B161871-BS1	LCS	24.665	26.869	ug/m3	91.8		70 - 130			1
	B161871-BSD1	LCSD	24.934	26.869	ug/m3	92.8	1.1	70 - 130	30		2
Trichlorofluoromethane	B161871-BS1	LCS	26.013	28.092	ug/m3	92.6		70 - 130			1
	B161871-BSD1	LCSD	26.575	28.092	ug/m3	94.6	2.1	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B161871-BS1	LCS	34.563	38.318	ug/m3	90.2		70 - 130			1
	B161871-BSD1	LCSD	34.946	38.318	ug/m3	91.2	1.1	70 - 130	30		2
p- & m-Xylenes	B161871-BS1	LCS	41.815	43.421	ug/m3	96.3		70 - 130			1
	B161871-BSD1	LCSD	41.945	43.421	ug/m3	96.6	0.3	70 - 130	30		2
o-Xylene	B161871-BS1	LCS	21.016	21.711	ug/m3	96.8		70 - 130			1
	B161871-BSD1	LCSD	21.146	21.711	ug/m3	97.4	0.6	70 - 130	30		2
Total Xylenes	B161871-BS1	LCS	62.831	65.132	ug/m3	96.5		70 - 130			1
	B161871-BSD1	LCSD	63.091	65.132	ug/m3	96.9	0.4	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161871-BS1	LCS	71.7	71.6	ug/m3	100		70 - 130			1
	B161871-BSD1	LCSD	71.1	71.6	ug/m3	99.4	0.8	70 - 130			2
QC Batch ID: B161965											
Benzene	B161965-BS1	LCS	0.28459	0.31948	ug/m3	89.1		70 - 130			3
	B161965-BSD1	LCSD	0.28874	0.31948	ug/m3	90.4	1.4	70 - 130	30		4
Benzyl chloride	B161965-BS1	LCS	0.44524	0.51772	ug/m3	86.0		70 - 130		J	3
	B161965-BSD1	LCSD	0.51260	0.51772	ug/m3	99.0	14.1	70 - 130	30		4
Carbon tetrachloride	B161965-BS1	LCS	0.57943	0.62913	ug/m3	92.1		70 - 130			3
	B161965-BSD1	LCSD	0.59591	0.62913	ug/m3	94.7	2.8	70 - 130	30		4
Chlorobenzene	B161965-BS1	LCS	0.52057	0.46036	ug/m3	113		70 - 130			3
	B161965-BSD1	LCSD	0.43366	0.46036	ug/m3	94.2	18.2	70 - 130	30		4
Chloroform	B161965-BS1	LCS	0.45744	0.48825	ug/m3	93.7		70 - 130			3
	B161965-BSD1	LCSD	0.47199	0.48825	ug/m3	96.7	3.1	70 - 130	30		4
1,2-Dibromoethane	B161965-BS1	LCS	0.72816	0.76835	ug/m3	94.8		70 - 130			3
	B161965-BSD1	LCSD	0.73854	0.76835	ug/m3	96.1	1.4	70 - 130	30		4

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 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161965											
1,2-Dichlorobenzene	B161965-BS1	LCS	0.59534	0.60124	ug/m3	99.0		70 - 130			3
	B161965-BSD1	LCSD	0.61603	0.60124	ug/m3	102	3.4	70 - 130	30		4
1,3-Dichlorobenzene	B161965-BS1	LCS	0.54616	0.60124	ug/m3	90.8		70 - 130			3
	B161965-BSD1	LCSD	0.59113	0.60124	ug/m3	98.3	7.9	70 - 130	30		4
1,4-Dichlorobenzene	B161965-BS1	LCS	0.56606	0.60124	ug/m3	94.1		70 - 130			3
	B161965-BSD1	LCSD	0.61849	0.60124	ug/m3	103	8.9	70 - 130	30		4
1,1-Dichloroethane	B161965-BS1	LCS	0.37479	0.40474	ug/m3	92.6		70 - 130			3
	B161965-BSD1	LCSD	0.37762	0.40474	ug/m3	93.3	0.8	70 - 130	30		4
1,2-Dichloroethane	B161965-BS1	LCS	0.35629	0.40474	ug/m3	88.0		70 - 130			3
	B161965-BSD1	LCSD	0.36406	0.40474	ug/m3	89.9	2.2	70 - 130	30		4
1,1-Dichloroethene	B161965-BS1	LCS	0.36589	0.39649	ug/m3	92.3		70 - 130			3
	B161965-BSD1	LCSD	0.36684	0.39649	ug/m3	92.5	0.3	70 - 130	30		4
cis-1,2-Dichloroethene	B161965-BS1	LCS	0.36299	0.39649	ug/m3	91.6		70 - 130			3
	B161965-BSD1	LCSD	0.37580	0.39649	ug/m3	94.8	3.5	70 - 130	30		4
Methylene chloride	B161965-BS1	LCS	0.34776	0.34737	ug/m3	100		70 - 130			3
	B161965-BSD1	LCSD	0.34859	0.34737	ug/m3	100	0.2	70 - 130	30		4
Tetrachloroethene	B161965-BS1	LCS	0.63742	0.67825	ug/m3	94.0		70 - 130			3
	B161965-BSD1	LCSD	0.65255	0.67825	ug/m3	96.2	2.3	70 - 130	30		4
Toluene	B161965-BS1	LCS	0.34572	0.37684	ug/m3	91.7		70 - 130			3
	B161965-BSD1	LCSD	0.35182	0.37684	ug/m3	93.4	1.8	70 - 130	30		4
1,1,1-Trichloroethane	B161965-BS1	LCS	0.51103	0.54562	ug/m3	93.7		70 - 130			3
	B161965-BSD1	LCSD	0.51736	0.54562	ug/m3	94.8	1.2	70 - 130	30		4
1,1,2-Trichloroethane	B161965-BS1	LCS	0.51436	0.54562	ug/m3	94.3		70 - 130			3
	B161965-BSD1	LCSD	0.51714	0.54562	ug/m3	94.8	0.5	70 - 130	30		4
Trichloroethene	B161965-BS1	LCS	0.50454	0.53737	ug/m3	93.9		70 - 130			3
	B161965-BSD1	LCSD	0.50459	0.53737	ug/m3	93.9	0.0	70 - 130	30		4
Vinyl chloride	B161965-BS1	LCS	0.24958	0.25562	ug/m3	97.6		70 - 130			3
	B161965-BSD1	LCSD	0.24230	0.25562	ug/m3	94.8	3.0	70 - 130	30		4
p- & m-Xylenes	B161965-BS1	LCS	0.79978	0.86843	ug/m3	92.1		70 - 130			3
	B161965-BSD1	LCSD	0.84150	0.86843	ug/m3	96.9	5.1	70 - 130	30		4
o-Xylene	B161965-BS1	LCS	0.40430	0.43421	ug/m3	93.1		70 - 130			3
	B161965-BSD1	LCSD	0.41472	0.43421	ug/m3	95.5	2.5	70 - 130	30		4
Total Xylenes	B161965-BS1	LCS	1.2041	1.3026	ug/m3	92.4		70 - 130			3
	B161965-BSD1	LCSD	1.2562	1.3026	ug/m3	96.4	4.2	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B161965-BS1	LCS	3.58	3.58	ug/m3	100		50 - 150			3
	B161965-BSD1	LCSD	3.57	3.58	ug/m3	99.9	0.2	50 - 150			4

QC Batch ID: B162071

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 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B162071											
4-Bromofluorobenzene (Surrogate)	B162071-BS1	LCS	70.7	71.6	ug/m3	98.8		70 - 130			5
	B162071-BSD1	LCSD	70.3	71.6	ug/m3	98.2	0.6	70 - 130			6
QC Batch ID: B162553											
Benzene	B162553-BS1	LCS	17.060	15.974	ug/m3	107		70 - 130			7
	B162553-BSD1	LCSD	17.060	15.974	ug/m3	107	0	70 - 130	30		8
Chloroform	B162553-BS1	LCS	24.999	24.413	ug/m3	102		70 - 130			7
	B162553-BSD1	LCSD	25.292	24.413	ug/m3	104	1.2	70 - 130	30		8
Ethylbenzene	B162553-BS1	LCS	24.099	21.711	ug/m3	111		70 - 130			7
	B162553-BSD1	LCSD	24.229	21.711	ug/m3	112	0.5	70 - 130	30		8
Tetrachloroethene	B162553-BS1	LCS	36.015	33.913	ug/m3	106		70 - 130			7
	B162553-BSD1	LCSD	36.219	33.913	ug/m3	107	0.6	70 - 130	30		8
Toluene	B162553-BS1	LCS	20.726	18.842	ug/m3	110		70 - 130			7
	B162553-BSD1	LCSD	20.764	18.842	ug/m3	110	0.2	70 - 130	30		8
Trichloroethene	B162553-BS1	LCS	28.588	26.869	ug/m3	106		70 - 130			7
	B162553-BSD1	LCSD	28.642	26.869	ug/m3	107	0.2	70 - 130	30		8
Trichlorofluoromethane	B162553-BS1	LCS	28.934	28.092	ug/m3	103		70 - 130			7
	B162553-BSD1	LCSD	29.047	28.092	ug/m3	103	0.4	70 - 130	30		8
1,1,2-Trichloro-1,2,2-trifluoroethane	B162553-BS1	LCS	40.234	38.318	ug/m3	105		70 - 130			7
	B162553-BSD1	LCSD	40.311	38.318	ug/m3	105	0.2	70 - 130	30		8
p- & m-Xylenes	B162553-BS1	LCS	49.500	43.421	ug/m3	114		70 - 130			7
	B162553-BSD1	LCSD	49.891	43.421	ug/m3	115	0.8	70 - 130	30		8
o-Xylene	B162553-BS1	LCS	24.446	21.711	ug/m3	113		70 - 130			7
	B162553-BSD1	LCSD	24.576	21.711	ug/m3	113	0.5	70 - 130	30		8
Total Xylenes	B162553-BS1	LCS	73.946	65.132	ug/m3	114		70 - 130			7
	B162553-BSD1	LCSD	74.467	65.132	ug/m3	114	0.7	70 - 130	30		8
4-Bromofluorobenzene (Surrogate)	B162553-BS1	LCS	71.4	71.6	ug/m3	99.7		70 - 130			7
	B162553-BSD1	LCSD	71.6	71.6	ug/m3	100	0.3	70 - 130			8

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:51
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1

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Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23 21:15	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1

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 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23 21:46	BEP	MS-A1	1
5	B162071-BS1	LCS	EPA-TO-15	03/16/23	03/16/23 19:41	BEP	MS-A2	1
6	B162071-BSD1	LCSD	EPA-TO-15	03/16/23	03/16/23 20:23	BEP	MS-A2	1
7	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23 14:31	BEP	MS-A2	1
7	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23 14:31	BEP	MS-A2	1
7	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23 14:31	BEP	MS-A2	1
7	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23 14:31	BEP	MS-A2	1
7	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23 14:31	BEP	MS-A2	1
7	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23 14:31	BEP	MS-A2	1
7	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23 14:31	BEP	MS-A2	1
7	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23 14:31	BEP	MS-A2	1
7	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23 14:31	BEP	MS-A2	1
7	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23 14:31	BEP	MS-A2	1
7	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23 14:31	BEP	MS-A2	1
7	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23 14:31	BEP	MS-A2	1
7	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23 14:31	BEP	MS-A2	1
7	B162553-BS1	LCS	EPA-TO-15	03/23/23	03/23/23 14:31	BEP	MS-A2	1
8	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23 15:11	BEP	MS-A2	1
8	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23 15:11	BEP	MS-A2	1
8	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23 15:11	BEP	MS-A2	1
8	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23 15:11	BEP	MS-A2	1
8	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23 15:11	BEP	MS-A2	1
8	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23 15:11	BEP	MS-A2	1
8	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23 15:11	BEP	MS-A2	1
8	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23 15:11	BEP	MS-A2	1
8	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23 15:11	BEP	MS-A2	1
8	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23 15:11	BEP	MS-A2	1
8	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23 15:11	BEP	MS-A2	1
8	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23 15:11	BEP	MS-A2	1
8	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23 15:11	BEP	MS-A2	1

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Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
8	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23 15:11	BEP	MS-A2	1
8	B162553-BSD1	LCSD	EPA-TO-15	03/23/23	03/23/23 15:11	BEP	MS-A2	1

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 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B162558

Methane (CH4)	B162558-BLK1	ND	ppmv	2.0	1.8		1
---------------	--------------	----	------	-----	-----	--	---

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162558-BLK1	PB	ASTM-D1946	03/23/23	03/23/23 18:13	RMK	GC-A1	1

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Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162558											
Methane (CH4)	B162558-BS1	LCS	19441	18000	ppmv	108		70 - 130			1
	B162558-BSD1	LCSD	19414	18000	ppmv	108	0.1	70 - 130	30		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162558-BS1	LCS	ASTM-D1946	03/23/23	03/23/23	17:32	RMK	GC-A1	1
2	B162558-BSD1	LCSD	ASTM-D1946	03/23/23	03/23/23	17:53	RMK	GC-A1	1

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Notes And Definitions

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



Date of Report: 04/04/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2306085
Invoice ID: B472900

Enclosed are the results of analyses for samples received by the laboratory on 3/28/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "BS", is written over a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", is written over a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Quality Control Reports

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

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RUSH! AIR: CHAIN-OF-CUSTODY / Analytical Re
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed

2306085

Page: 1 of 1

Section A Required Client Information Company: Roux Address: 5150 E. Pacific Coast Hwy, Ste. 450 Long Beach, CA 90804 Email To: arnogue@rouxinc.com Phone: 562-446-9624 Fax: 562-446-9625 Requested Date/TIME: 03/13/23		Section B Required Project Information: Report To: April McGuire Copy To: Roux Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804 Pace Quote Reference: 00132481 & 00132533 Pace Project Manager/Sales Rep: Brianna Schuler / Dawn Gmior Pace Profile #:		Section C Invoice Information: Attention: Roux Accounts Payable (roux@rouxinc.com) Company Name: Roux Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804 Pace Quote Reference: 00132481 & 00132533 Pace Project Manager/Sales Rep: Brianna Schuler / Dawn Gmior Pace Profile #:		Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean-Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other Location of Sampling by State: CA Report Level: I, II, III, IV, Other	
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE SV-26-1		Collected DATE TIME DATE TIME 03/13 1326 03/13 1333 MEDIA CODE: 116 PID Reading (Client only): VMT Media Codes: CODE: TB, TL, TLG, L, LHP, HWP, MV10 Other:		Relinquished by / Affiliation: <i>Stumpy Lou/Roux</i> DATE: <i>03/13 1520</i> Accepted by / Affiliation: <i>Sammy</i> DATE: <i>3-28-23 1043</i> Summa Can Number: <i>59463121</i> Flow Control Number:		Sample Conditions Temp in °C Received on: Y/N Y/N Y/N Y/N Ice: Y/N Y/N Y/N Y/N Sealed Cooler: Y/N Y/N Y/N Y/N Samples Intact: Y/N Y/N Y/N Y/N	
Comments: Lab report due by 03/13/23; if not possible, then as soon as possible thereafter		CHK BY: <i>APL</i> DISTRIBUTION SUB OUT:		SAMPLER NAME AND SIGNATURE: NAME: <i>Travis Clay</i> SIGNATURE: <i>[Signature]</i> DATE: <i>03/13/23</i>			

FC046Rev 01, 03Feb2010

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>							
Submission #: <u>23-06085</u>											
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S						
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments:											
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments:											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Summa</u> Thermometer ID: _____		Date/Time: <u>3-28-23</u>							
		Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Analyst Init <u>SRH 1043</u>							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE IMPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr ⁴											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PTA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 534											
QT EPA 408/608.33081A											
QT EPA 515.1/8151A											
QT EPA 525.2											
QT EPA 535.2 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548.1											
QT EPA 549.2											
QT EPA 501SM											
QT EPA 5270C											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER	<u>6.4L</u>		<u>A</u>								

Comments: _____
 Sample Numbering Completed By: JCD Date/Time: 3-28-23 11:25
 A = Actual / C = Corrected

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2306085-01	COC Number:	---	Receive Date:	03/28/2023 10:43
	Project Number:	---	Sampling Date:	03/27/2023 13:33
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-28-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306085-01		Client Sample Name: SV-28-1, 3/27/2023 1:33:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	36	ug/m3	8.1	0.70	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.2	0.44	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Benzene	0.62	ug/m3	3.2	0.34	EPA-TO-15	ND	J,A01	1
Benzyl chloride	ND	ug/m3	16	0.42	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.1	0.73	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.2	0.76	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.2	0.36	EPA-TO-15	ND	A01	1
Carbon disulfide	1.2	ug/m3	3.2	0.31	EPA-TO-15	ND	J,A01	1
Carbon tetrachloride	ND	ug/m3	8.1	0.73	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.1	0.65	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.2	0.86	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	8.1	0.87	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	3.2	0.62	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	8.1	0.70	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.1	0.94	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.1	0.81	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.1	0.50	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.1	0.81	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.5	ug/m3	8.1	0.73	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.1	0.37	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.1	0.42	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.1	0.50	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.2	0.44	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.1	0.52	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.1	0.49	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.1	0.65	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.1	1.5	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.1	3.2	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306085-01		Client Sample Name: SV-28-1, 3/27/2023 1:33:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	13	ug/m3	3.2	0.68	EPA-TO-15	ND	A01	1
Ethyl acetate	1.6	ug/m3	3.2	0.53	EPA-TO-15	ND	J,A01	1
Ethylbenzene	3.9	ug/m3	8.1	0.52	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	8.1	0.49	EPA-TO-15	ND	A01	1
n-Heptane	ND	ug/m3	3.2	0.55	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	1
Hexane	1.5	ug/m3	8.1	0.32	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	8.1	0.47	EPA-TO-15	ND	A01	1
Isopropyl alcohol	7.7	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.65	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	1.6	ug/m3	3.2	0.31	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	0.80	ug/m3	8.1	0.42	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.2	0.40	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	8.1	0.39	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.1	0.76	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.2	0.81	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.2	0.44	EPA-TO-15	ND	A01	1
Toluene	1.7	ug/m3	3.2	0.44	EPA-TO-15	ND	J,A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.1	0.63	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.1	0.99	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.2	0.87	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.4	ug/m3	8.1	0.76	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.1	0.89	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.2	ug/m3	8.1	0.65	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.1	0.65	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.2	0.63	EPA-TO-15	ND	A01	1
p- & m-Xylenes	17	ug/m3	8.1	0.99	EPA-TO-15	ND	A01	1
o-Xylene	5.4	ug/m3	8.1	0.49	EPA-TO-15	ND	J,A01	1
Total Xylenes	23	ug/m3	16	1.5	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	96.6	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/04/2023 10:57
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306085-01 Client Sample Name: SV-28-1, 3/27/2023 1:33:00PM, Client

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15	03/30/23 13:16	03/31/23 03:48		BEP	MS-A2	1.620	B163114	EPA TO-15

DCN = Data Continuation Number

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Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163114							
Acetone	B163114-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B163114-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B163114-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B163114-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B163114-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B163114-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B163114-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B163114-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B163114-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B163114-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B163114-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B163114-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B163114-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B163114-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B163114-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B163114-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B163114-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B163114-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B163114-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B163114-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B163114-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B163114-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B163114-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B163114-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B163114-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B163114-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B163114-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B163114-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B163114-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B163114-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B163114-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B163114-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B163114-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B163114-BLK1	ND	ug/m3	2.0	0.42		1

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Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163114							
Ethyl acetate	B163114-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B163114-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B163114-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B163114-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B163114-BLK1	ND	ug/m3	10	1.5		1
Hexane	B163114-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B163114-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B163114-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B163114-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B163114-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B163114-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B163114-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B163114-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B163114-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B163114-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B163114-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B163114-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B163114-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B163114-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B163114-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B163114-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B163114-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B163114-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B163114-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B163114-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B163114-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B163114-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B163114-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B163114-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B163114-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B163114-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B163114-BLK1	91.0	%	70 - 130 (LCL - UCL)			1

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Long Beach, CA 90804

Reported: 04/04/2023 10:57
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/04/2023 10:57
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B163114											
Benzene	B163114-BS1	LCS	15.878	15.974	ug/m3	99.4		70 - 130			1
	B163114-BSD1	LCSD	15.846	15.974	ug/m3	99.2	0.2	70 - 130	30		2
Chloroform	B163114-BS1	LCS	23.436	24.413	ug/m3	96.0		70 - 130			1
	B163114-BSD1	LCSD	23.241	24.413	ug/m3	95.2	0.8	70 - 130	30		2
Ethylbenzene	B163114-BS1	LCS	22.883	21.711	ug/m3	105		70 - 130			1
	B163114-BSD1	LCSD	23.057	21.711	ug/m3	106	0.8	70 - 130	30		2
Tetrachloroethene	B163114-BS1	LCS	34.116	33.913	ug/m3	101		70 - 130			1
	B163114-BSD1	LCSD	34.591	33.913	ug/m3	102	1.4	70 - 130	30		2
Toluene	B163114-BS1	LCS	19.332	18.842	ug/m3	103		70 - 130			1
	B163114-BSD1	LCSD	19.445	18.842	ug/m3	103	0.6	70 - 130	30		2
Trichloroethene	B163114-BS1	LCS	27.191	26.869	ug/m3	101		70 - 130			1
	B163114-BSD1	LCSD	27.245	26.869	ug/m3	101	0.2	70 - 130	30		2
Trichlorofluoromethane	B163114-BS1	LCS	27.024	28.092	ug/m3	96.2		70 - 130			1
	B163114-BSD1	LCSD	26.856	28.092	ug/m3	95.6	0.6	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B163114-BS1	LCS	37.475	38.318	ug/m3	97.8		70 - 130			1
	B163114-BSD1	LCSD	37.552	38.318	ug/m3	98.0	0.2	70 - 130	30		2
p- & m-Xylenes	B163114-BS1	LCS	46.548	43.421	ug/m3	107		70 - 130			1
	B163114-BSD1	LCSD	46.765	43.421	ug/m3	108	0.5	70 - 130	30		2
o-Xylene	B163114-BS1	LCS	22.926	21.711	ug/m3	106		70 - 130			1
	B163114-BSD1	LCSD	23.100	21.711	ug/m3	106	0.8	70 - 130	30		2
Total Xylenes	B163114-BS1	LCS	69.474	65.132	ug/m3	107		70 - 130			1
	B163114-BSD1	LCSD	69.865	65.132	ug/m3	107	0.6	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B163114-BS1	LCS	72.4	71.6	ug/m3	101		70 - 130			1
	B163114-BSD1	LCSD	72.9	71.6	ug/m3	102	0.7	70 - 130			2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/04/2023 10:57
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

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



Date of Report: 04/03/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304044
Invoice ID: B471028, B471949, B472840

Enclosed are the results of analyses for samples received by the laboratory on 2/27/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001408459

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY
The Chain-of-Custody is a LEGAL DOCUMENT. AIR

2304044

Document

Page: 1 of 1

Section A Required Client Information

Company: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 400
Long Beach, CA 90804
Email To: amcguire@rouxinc.com
Phone: 562-446-8824 Fax:
Requested Due Date/TAL: Standard

Section B Required Project Information

Report To: April McGuire
Copy To:
Purchase Order No.:
Project Name: City Terrace
Project Number: 2855

Section C Invoice Information

Attention: Roux Accounts Payable (rouxap@rouxinc.com)
Company Name: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 400 Long Beach, CA 90804
Phone: 562-446-8824
Please Project Manager/Sales Rep: Brenna Schutte / Dawn Glaser
Pace Profile #

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

ITEM #	DATE	TIME	CONTROL	TIME	DATE	TIME
1	AA-29-1	1551	1404	1407	130	3
2	IA-29-1	1616	1512	1517	30	4
3	EA-29-2	1620	1415	1415	30	3
4	SV-29-1	1635	1601	1601	27	5
5	SV-29-2	1642	1645	1645	27	5

COLLECTED

CONTROL	DATE	TIME	CONTROL	DATE	TIME
TO-3M (Methanol)			TO-3M (Methanol)		
TO-3M (Acetone)			TO-3M (Acetone)		
TO-13 (pH)			TO-13 (pH)		
TO-14			TO-14		
TO-15			TO-15		
TO-15 Sulf			TO-15 Sulf		

RELINQUISHED BY / AFFILIATION

Carmon Jones (Roux) 2/24/13 11:18
Alex Pedrite (Roux) 2/24/13 9:30
April McGuire - Roux 2-24-13 1100
Gabriela Bumb 2-24-13 1100
C. Roberts 2-27 1515

ACCEPTED BY / AFFILIATION

Atx Pedrite (Roux) 2/28/13 1718
April McGuire (Roux) 2-24-13 0930
Gabriela Bumb 2-24-13 1100
C. Roberts 2-27 1515

DATE **TIME** **DATE** **TIME**

Method: PM10

Report Level: II, X, III, IV Other

Location of Sampling by State: CA

Program: UST Superfund Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other
Size/Date/Time: None None None
 Other PM10

Flow Control Number

Summa Can Number: 27754, 67830, 67830, 67890, 14844, 16959

Control Number: 03886, 03802, 08267, 14830, 15086

Temp in °C

Received on

Sealed Cooler

Samples Intact

Comments:

CHK BY: Atx DISTRIBUTION
SUB OUT

SAMPLER NAME AND SIGNATURE

Carmon Jones

DATE TIME OF SAMPLES

2/27/13 1515

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

FC046Rev 01, 03Feb2010

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PACEL ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>	
Submission #: <u>23-04044</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals <input type="checkbox"/> Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input type="checkbox"/> Comments: _____					
Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUMMA</u> Thermometer ID: _____ Temperature: (A) <u>room</u> °C / (C) <u>TEMP</u> °C		Date/Time <u>1/27/23</u> Analyst Init <u>JDL</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 505/608.3/8051A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A	A	A	A					

Comments: _____
 Sample Numbering Completed By: TOD L Date/Time: 2/27/23 14:15
 A = Actual / C = Corrected

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304044-01	COC Number:	---	Receive Date:	02/27/2023 19:00
	Project Number:	---	Sampling Date:	02/23/2023 14:07
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AA-29-1	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
2304044-02	COC Number:	---	Receive Date:	02/27/2023 19:00
	Project Number:	---	Sampling Date:	02/23/2023 15:12
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-29-1	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
2304044-03	COC Number:	---	Receive Date:	02/27/2023 19:00
	Project Number:	---	Sampling Date:	02/23/2023 14:15
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-29-2	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
2304044-04	COC Number:	---	Receive Date:	02/27/2023 19:00
	Project Number:	---	Sampling Date:	02/23/2023 17:01
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-29-1	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air
2304044-05	COC Number:	---	Receive Date:	02/27/2023 19:00
	Project Number:	---	Sampling Date:	02/23/2023 16:48
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-29-2	Lab Matrix:	Air
	Sampled By:	---	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304044-01		Client Sample Name: AA-29-1, 2/23/2023 2:07:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	4.1	ug/m3	5.0	0.43	EPA-TO-15	ND	J	1
Acetone	2.5	ug/m3	2.0	0.015	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.38	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.42	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.3	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	3.0	ug/m3	0.10	0.010	EPA-TO-15-SIM	ND	A01	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304044-01		Client Sample Name: AA-29-1, 2/23/2023 2:07:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	2.3	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.12	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	1.3	ug/m3	2.0	0.32	EPA-TO-15	ND	J	1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304044-01		Client Sample Name: AA-29-1, 2/23/2023 2:07:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	0.57	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	0.63	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.2	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.63	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
p- & m-Xylenes	0.39	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.14	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1
Total Xylenes	0.53	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	99.4	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	93.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	100	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304044-01		Client Sample Name: AA-29-1, 2/23/2023 2:07:00PM							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/17/23 13:06	03/18/23 00:25	BEP	MS-A2	1	B162153	EPA TO-15	
2	EPA-TO-15-SIM	02/28/23 13:11	02/28/23 19:29	BEP	MS-A1	2	B160945	EPA TO-15	
3	EPA-TO-15-SIM	02/28/23 13:11	02/28/23 17:44	BEP	MS-A1	1	B160945	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304044-01	Client Sample Name: AA-29-1, 2/23/2023 2:07:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	8.9	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/20/23 08:27	03/20/23 13:48	RMK	GC-A1	1	B162267	No Prep

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304044-02		Client Sample Name: IA-29-1, 2/23/2023 3:12:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	8.2	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	4.7	ug/m3	10	0.075	EPA-TO-15-SIM	ND	J,A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.58	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.66	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	37	ug/m3	2.0	0.16	EPA-TO-15-SIM	ND	A01	2
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	3.0	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	2

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Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304044-02		Client Sample Name: IA-29-1, 2/23/2023 3:12:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	37	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	1.5	ug/m3	2.0	0.33	EPA-TO-15	ND	J	1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	81	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304044-02		Client Sample Name: IA-29-1, 2/23/2023 3:12:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1	
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1	
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1	
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1	
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3	
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1	
Toluene	0.87	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1	
Toluene	1.1	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3	
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1	
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1	
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3	
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1	
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3	
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1	
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3	
Trichlorofluoromethane	1.2	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1	
Trichlorofluoromethane	1.6	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.68	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3	
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1	
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1	
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1	
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1	
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3	
p- & m-Xylenes	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1	
p- & m-Xylenes	0.56	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3	
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1	
o-Xylene	0.20	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3	
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1	
Total Xylenes	0.77	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3	
4-Bromofluorobenzene (Surrogate)	100	%	70 - 130 (LCL - UCL)		EPA-TO-15			1	
4-Bromofluorobenzene (Surrogate)	96.6	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2	
4-Bromofluorobenzene (Surrogate)	108	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3	

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304044-02		Client Sample Name: IA-29-1, 2/23/2023 3:12:00PM							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/17/23 13:06	03/18/23 01:08	BEP	MS-A2	1	B162153	EPA TO-15	
2	EPA-TO-15-SIM	02/28/23 13:11	02/28/23 19:59	BEP	MS-A1	10	B160945	EPA TO-15	
3	EPA-TO-15-SIM	02/28/23 13:11	02/28/23 18:20	BEP	MS-A1	1	B160945	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304044-02	Client Sample Name: IA-29-1, 2/23/2023 3:12:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	31	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/20/23 08:27	03/20/23 14:08	RMK	GC-A1	1	B162267	No Prep

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304044-03		Client Sample Name: IA-29-2, 2/23/2023 2:15:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	9.0	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	4.9	ug/m3	10	0.075	EPA-TO-15-SIM	ND	J,A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.54	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.57	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	21	ug/m3	2.0	0.16	EPA-TO-15-SIM	ND	A01	2
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.9	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304044-03		Client Sample Name: IA-29-2, 2/23/2023 2:15:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	62	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	3.9	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.17	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	43	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304044-03		Client Sample Name: IA-29-2, 2/23/2023 2:15:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	0.75	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	0.87	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		3
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.2	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.63	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
p- & m-Xylenes	0.54	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.18	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	ND	ug/m3	10	0.91	EPA-TO-15	ND		1
Total Xylenes	0.72	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	101	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	95.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	106	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304044-03	Client Sample Name: IA-29-2, 2/23/2023 2:15:00PM
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DCN	Method	Prep Date		Run		Analyst	Instrument	Dilution	QC	
				Date/Time	Date/Time				Batch ID	
1	EPA-TO-15	03/17/23	13:06	03/18/23	01:52	BEP	MS-A2	1	B162153	EPA TO-15
2	EPA-TO-15-SIM	02/28/23	13:11	02/28/23	20:29	BEP	MS-A1	10	B160945	EPA TO-15
3	EPA-TO-15-SIM	02/28/23	13:11	02/28/23	18:56	BEP	MS-A1	1	B160945	EPA TO-15

DCN = Data Continuation Number

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 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304044-03	Client Sample Name: IA-29-2, 2/23/2023 2:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	3.1	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/20/23 08:27	03/20/23 14:28	RMK	GC-A1	1	B162267	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304044-04		Client Sample Name: SV-29-1, 2/23/2023 5:01:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	110	ug/m3	8.0	0.69	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Benzene	10	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.42	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.2	0.75	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.2	0.35	EPA-TO-15	ND	A01	1
Carbon disulfide	9.4	ug/m3	3.2	0.30	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.2	0.85	EPA-TO-15	ND	A01	1
Chloroform	2.0	ug/m3	8.0	0.86	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	3.2	0.61	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	8.0	0.69	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	1.7	ug/m3	8.0	0.93	EPA-TO-15	ND	J,A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.0	0.50	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.5	ug/m3	8.0	0.72	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.0	0.37	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.0	0.42	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.0	0.50	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.2	0.51	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.0	0.51	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.0	0.48	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.0	1.5	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.0	3.2	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304044-04		Client Sample Name: SV-29-1, 2/23/2023 5:01:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	62	ug/m3	3.2	0.67	EPA-TO-15	ND	A01	1
Ethyl acetate	2.6	ug/m3	3.2	0.53	EPA-TO-15	ND	J,A01	1
Ethylbenzene	2.7	ug/m3	8.0	0.51	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	0.87	ug/m3	8.0	0.48	EPA-TO-15	ND	J,A01	1
n-Heptane	6.2	ug/m3	3.2	0.54	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	1
Hexane	3.2	ug/m3	8.0	0.32	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	8.0	0.46	EPA-TO-15	ND	A01	1
Isopropyl alcohol	34	ug/m3	3.2	0.51	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.64	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	5.4	ug/m3	3.2	0.30	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	0.92	ug/m3	8.0	0.42	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Propylene	1.5	ug/m3	3.2	0.40	EPA-TO-15	ND	J,A01	1
Styrene	ND	ug/m3	8.0	0.38	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.0	0.75	EPA-TO-15	ND	A01	1
Tetrachloroethene	1.8	ug/m3	3.2	0.80	EPA-TO-15	ND	J,A01	1
Tetrahydrofuran	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Toluene	13	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.0	0.62	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.0	0.98	EPA-TO-15	ND	A01	1
Trichloroethene	1.5	ug/m3	3.2	0.86	EPA-TO-15	ND	J,A01	1
Trichlorofluoromethane	1.3	ug/m3	8.0	0.75	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.0	0.88	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.3	ug/m3	8.0	0.64	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.2	0.62	EPA-TO-15	ND	A01	1
p- & m-Xylenes	8.9	ug/m3	8.0	0.98	EPA-TO-15	ND	A01	1
o-Xylene	3.1	ug/m3	8.0	0.48	EPA-TO-15	ND	J,A01	1
Total Xylenes	12	ug/m3	16	1.5	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	91.3	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304044-04	Client Sample Name: SV-29-1, 2/23/2023 5:01:00PM
----------------------------------	---

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	02/28/23 13:55	03/01/23 03:33	BEP	MS-A2	1.600	B160936 EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304044-05		Client Sample Name: SV-29-2, 2/23/2023 4:48:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	50	ug/m3	7.8	0.67	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.1	0.44	EPA-TO-15	ND	A01	1
Benzene	7.3	ug/m3	3.1	0.33	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.41	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	7.8	0.70	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.1	0.73	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.1	0.34	EPA-TO-15	ND	A01	1
Carbon disulfide	5.7	ug/m3	3.1	0.30	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	7.8	0.70	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	7.8	0.62	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.1	0.83	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	7.8	0.84	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	3.1	0.33	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	3.1	0.59	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	7.8	0.67	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	7.8	0.90	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	7.8	0.78	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	7.8	0.48	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	7.8	0.78	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.4	ug/m3	7.8	0.70	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	7.8	0.36	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	7.8	0.41	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	7.8	0.48	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.1	0.50	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	7.8	0.50	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	7.8	0.47	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	7.8	0.62	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	7.8	1.4	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	7.8	3.1	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.1	0.51	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304044-05		Client Sample Name: SV-29-2, 2/23/2023 4:48:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	35	ug/m3	3.1	0.66	EPA-TO-15	ND	A01	1
Ethyl acetate	1.5	ug/m3	3.1	0.51	EPA-TO-15	ND	J,A01	1
Ethylbenzene	1.2	ug/m3	7.8	0.50	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	1.2	ug/m3	7.8	0.47	EPA-TO-15	ND	J,A01	1
n-Heptane	3.8	ug/m3	3.1	0.53	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.3	EPA-TO-15	ND	A01	1
Hexane	1.4	ug/m3	7.8	0.31	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	7.8	0.45	EPA-TO-15	ND	A01	1
Isopropyl alcohol	6.1	ug/m3	3.1	0.50	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.62	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	6.3	ug/m3	3.1	0.30	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ug/m3	7.8	0.41	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	3.1	0.44	EPA-TO-15	ND	A01	1
Propylene	1.0	ug/m3	3.1	0.39	EPA-TO-15	ND	J,A01	1
Styrene	ND	ug/m3	7.8	0.37	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	7.8	0.73	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.1	0.78	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
Toluene	9.3	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	7.8	0.61	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	7.8	0.95	EPA-TO-15	ND	A01	1
Trichloroethene	0.84	ug/m3	3.1	0.84	EPA-TO-15	ND	J,A01	1
Trichlorofluoromethane	1.4	ug/m3	7.8	0.73	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	7.8	0.86	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.8	ug/m3	7.8	0.62	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	7.8	0.62	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.1	0.51	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.1	0.61	EPA-TO-15	ND	A01	1
p- & m-Xylenes	4.8	ug/m3	7.8	0.95	EPA-TO-15	ND	J,A01	1
o-Xylene	1.8	ug/m3	7.8	0.47	EPA-TO-15	ND	J,A01	1
Total Xylenes	6.6	ug/m3	16	1.4	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	92.3	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Reported: 04/03/2023 12:57
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304044-05	Client Sample Name: SV-29-2, 2/23/2023 4:48:00PM
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	02/28/23 13:55	03/01/23 04:16	BEP	MS-A2	1.560	B160936 EPA TO-15

DCN = Data Continuation Number

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Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B160936							
Acetone	B160936-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B160936-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B160936-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B160936-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B160936-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B160936-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B160936-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B160936-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B160936-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B160936-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B160936-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B160936-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B160936-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B160936-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B160936-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B160936-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B160936-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B160936-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B160936-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B160936-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B160936-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B160936-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B160936-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B160936-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B160936-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B160936-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B160936-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B160936-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B160936-BLK1	ND	ug/m3	2.0	0.42		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B160936							
Ethyl acetate	B160936-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B160936-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B160936-BLK1	ND	ug/m3	10	1.5		1
Hexane	B160936-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B160936-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B160936-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B160936-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B160936-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B160936-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B160936-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B160936-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B160936-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B160936-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B160936-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B160936-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B160936-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B160936-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B160936-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B160936-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B160936-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B160936-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B160936-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B160936-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B160936-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B160936-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B160936-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B160936-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B160936-BLK1	92.0	%	70 - 130 (LCL - UCL)			1
QC Batch ID: B160945							

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B160945							
Acetone	B160945-BLK1	ND	ug/m3	1.0	0.0075		2
Benzene	B160945-BLK1	ND	ug/m3	0.050	0.0032		2
Benzyl chloride	B160945-BLK1	ND	ug/m3	0.50	0.0052		2
Carbon tetrachloride	B160945-BLK1	ND	ug/m3	0.20	0.0063		2
Chlorobenzene	B160945-BLK1	ND	ug/m3	0.10	0.0079		2
Chloroform	B160945-BLK1	ND	ug/m3	0.050	0.0058		2
1,2-Dibromoethane	B160945-BLK1	ND	ug/m3	0.20	0.014		2
1,2-Dichlorobenzene	B160945-BLK1	ND	ug/m3	0.20	0.011		2
1,3-Dichlorobenzene	B160945-BLK1	ND	ug/m3	0.20	0.013		2
1,4-Dichlorobenzene	B160945-BLK1	ND	ug/m3	0.20	0.016		2
Dichlorodifluoromethane	B160945-BLK1	ND	ug/m3	0.050	0.0052		2
1,1-Dichloroethane	B160945-BLK1	ND	ug/m3	0.050	0.0041		2
1,2-Dichloroethane	B160945-BLK1	ND	ug/m3	0.10	0.0046		2
1,1-Dichloroethene	B160945-BLK1	ND	ug/m3	0.050	0.0078		2
cis-1,2-Dichloroethene	B160945-BLK1	ND	ug/m3	0.050	0.0044		2
trans-1,2-Dichloroethene	B160945-BLK1	ND	ug/m3	0.050	0.0075		2
trans-1,3-Dichloropropene	B160945-BLK1	ND	ug/m3	0.050	0.013		2
1,1-Difluoroethane	B160945-BLK1	ND	ug/m3	5.0	0.0027		2
Ethylbenzene	B160945-BLK1	ND	ug/m3	0.050	0.017		2
Methylene chloride	B160945-BLK1	ND	ug/m3	0.20	0.0077		2
Tetrachloroethene	B160945-BLK1	ND	ug/m3	0.10	0.011		2
Toluene	B160945-BLK1	ND	ug/m3	0.10	0.0062		2
1,1,1-Trichloroethane	B160945-BLK1	ND	ug/m3	0.10	0.0055		2
1,1,2-Trichloroethane	B160945-BLK1	ND	ug/m3	0.10	0.0055		2
Trichloroethene	B160945-BLK1	ND	ug/m3	0.10	0.0095		2
Trichlorofluoromethane	B160945-BLK1	ND	ug/m3	0.050	0.0057		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B160945-BLK1	ND	ug/m3	0.10	0.0078		2
Vinyl chloride	B160945-BLK1	ND	ug/m3	0.020	0.0046		2
p- & m-Xylenes	B160945-BLK1	ND	ug/m3	0.050	0.0082		2
o-Xylene	B160945-BLK1	ND	ug/m3	0.050	0.0044		2
Total Xylenes	B160945-BLK1	ND	ug/m3	0.10	0.013		2
4-Bromofluorobenzene (Surrogate)	B160945-BLK1	87.6	%	50 - 150 (LCL - UCL)			2
QC Batch ID: B162153							

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 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162153							
Acetone	B162153-BLK1	ND	ug/m3	5.0	0.43		3
Acrylonitrile	B162153-BLK1	ND	ug/m3	2.0	0.27		3
Allyl chloride	B162153-BLK1	ND	ug/m3	2.0	0.28		3
Benzene	B162153-BLK1	ND	ug/m3	2.0	0.21		3
Benzyl chloride	B162153-BLK1	ND	ug/m3	10	0.26		3
Bromodichloromethane	B162153-BLK1	ND	ug/m3	5.0	0.45		3
Bromoform	B162153-BLK1	ND	ug/m3	10	0.86		3
Bromomethane	B162153-BLK1	ND	ug/m3	2.0	0.47		3
1,3-Butadiene	B162153-BLK1	ND	ug/m3	2.0	0.22		3
Carbon disulfide	B162153-BLK1	ND	ug/m3	2.0	0.19		3
Carbon tetrachloride	B162153-BLK1	ND	ug/m3	5.0	0.45		3
Chlorobenzene	B162153-BLK1	ND	ug/m3	5.0	0.40		3
Chloroethane	B162153-BLK1	ND	ug/m3	2.0	0.53		3
Chloroform	B162153-BLK1	ND	ug/m3	5.0	0.54		3
Chloromethane	B162153-BLK1	ND	ug/m3	2.0	0.21		3
Cyclohexane	B162153-BLK1	ND	ug/m3	2.0	0.38		3
Dibromochloromethane	B162153-BLK1	ND	ug/m3	5.0	0.43		3
1,2-Dibromoethane	B162153-BLK1	ND	ug/m3	5.0	0.58		3
1,2-Dichlorobenzene	B162153-BLK1	ND	ug/m3	5.0	0.50		3
1,3-Dichlorobenzene	B162153-BLK1	ND	ug/m3	5.0	0.31		3
1,4-Dichlorobenzene	B162153-BLK1	ND	ug/m3	5.0	0.50		3
Dichlorodifluoromethane	B162153-BLK1	ND	ug/m3	5.0	0.45		3
1,1-Dichloroethane	B162153-BLK1	ND	ug/m3	5.0	0.23		3
1,2-Dichloroethane	B162153-BLK1	ND	ug/m3	5.0	0.26		3
1,1-Dichloroethene	B162153-BLK1	ND	ug/m3	5.0	0.31		3
cis-1,2-Dichloroethene	B162153-BLK1	ND	ug/m3	2.0	0.32		3
trans-1,2-Dichloroethene	B162153-BLK1	ND	ug/m3	2.0	0.27		3
1,2-Dichloropropane	B162153-BLK1	ND	ug/m3	5.0	0.32		3
cis-1,3-Dichloropropene	B162153-BLK1	ND	ug/m3	5.0	0.30		3
trans-1,3-Dichloropropene	B162153-BLK1	ND	ug/m3	5.0	0.40		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162153-BLK1	ND	ug/m3	5.0	0.91		3
1,1-Difluoroethane	B162153-BLK1	ND	ug/m3	5.0	2.0		3
1,4-Dioxane	B162153-BLK1	ND	ug/m3	2.0	0.33		3
Ethanol	B162153-BLK1	ND	ug/m3	2.0	0.42		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162153							
Ethyl acetate	B162153-BLK1	ND	ug/m3	2.0	0.33		3
Ethylbenzene	B162153-BLK1	ND	ug/m3	5.0	0.32		3
1-Ethyl-4-methylbenzene	B162153-BLK1	ND	ug/m3	5.0	0.30		3
n-Heptane	B162153-BLK1	ND	ug/m3	2.0	0.34		3
Hexachlorobutadiene	B162153-BLK1	ND	ug/m3	10	1.5		3
Hexane	B162153-BLK1	ND	ug/m3	5.0	0.20		3
2-Hexanone	B162153-BLK1	ND	ug/m3	5.0	0.29		3
Isopropyl alcohol	B162153-BLK1	ND	ug/m3	2.0	0.32		3
Methylene chloride	B162153-BLK1	ND	ug/m3	10	0.40		3
Methyl ethyl ketone	B162153-BLK1	ND	ug/m3	2.0	0.19		3
Methyl isobutyl ketone	B162153-BLK1	ND	ug/m3	5.0	0.26		3
Methyl t-butyl ether	B162153-BLK1	ND	ug/m3	2.0	0.28		3
Propylene	B162153-BLK1	ND	ug/m3	2.0	0.25	C01	3
Styrene	B162153-BLK1	ND	ug/m3	5.0	0.24		3
1,1,2,2-Tetrachloroethane	B162153-BLK1	ND	ug/m3	5.0	0.47		3
Tetrachloroethene	B162153-BLK1	ND	ug/m3	2.0	0.50		3
Tetrahydrofuran	B162153-BLK1	ND	ug/m3	2.0	0.27		3
Toluene	B162153-BLK1	ND	ug/m3	2.0	0.27		3
1,2,4-Trichlorobenzene	B162153-BLK1	ND	ug/m3	10	0.82		3
1,1,1-Trichloroethane	B162153-BLK1	ND	ug/m3	5.0	0.39		3
1,1,2-Trichloroethane	B162153-BLK1	ND	ug/m3	5.0	0.61		3
Trichloroethene	B162153-BLK1	ND	ug/m3	2.0	0.54		3
Trichlorofluoromethane	B162153-BLK1	ND	ug/m3	5.0	0.47		3
1,1,2-Trichloro-1,2,2-trifluoroethane	B162153-BLK1	ND	ug/m3	5.0	0.55		3
1,2,4-Trimethylbenzene	B162153-BLK1	ND	ug/m3	5.0	0.40		3
1,3,5-Trimethylbenzene	B162153-BLK1	ND	ug/m3	5.0	0.40		3
Vinyl acetate	B162153-BLK1	ND	ug/m3	2.0	0.33		3
Vinyl chloride	B162153-BLK1	ND	ug/m3	2.0	0.39		3
p- & m-Xylenes	B162153-BLK1	ND	ug/m3	5.0	0.61		3
o-Xylene	B162153-BLK1	ND	ug/m3	5.0	0.30		3
Total Xylenes	B162153-BLK1	ND	ug/m3	10	0.91		3
4-Bromofluorobenzene (Surrogate)	B162153-BLK1	95.5	%	70 - 130 (LCL - UCL)			3

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1

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Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
1	B160936-BLK1	PB	EPA-TO-15	02/28/23	02/28/23 18:22	BEP	MS-A2	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23 16:32	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 12:57
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23	16:32	BEP	MS-A1	1
2	B160945-BLK1	PB	EPA-TO-15-SIM	02/28/23	02/28/23	16:32	BEP	MS-A1	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23	15:48	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 12:57
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run	Analyst	Instrument	Dilution
					Date Time			
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 12:57
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1
3	B162153-BLK1	PB	EPA-TO-15	03/17/23	03/17/23 15:48	BEP	MS-A2	1

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Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B160936											
Benzene	B160936-BS1	LCS	14.888	15.974	ug/m3	93.2		70 - 130			1
	B160936-BSD1	LCSD	14.664	15.974	ug/m3	91.8	1.5	70 - 130	30		2
Chloroform	B160936-BS1	LCS	24.999	24.413	ug/m3	102		70 - 130			1
	B160936-BSD1	LCSD	24.999	24.413	ug/m3	102	0	70 - 130	30		2
Ethylbenzene	B160936-BS1	LCS	21.971	21.711	ug/m3	101		70 - 130			1
	B160936-BSD1	LCSD	21.884	21.711	ug/m3	101	0.4	70 - 130	30		2
Tetrachloroethene	B160936-BS1	LCS	36.015	33.913	ug/m3	106		70 - 130			1
	B160936-BSD1	LCSD	36.015	33.913	ug/m3	106	0	70 - 130	30		2
Toluene	B160936-BS1	LCS	19.784	18.842	ug/m3	105		70 - 130			1
	B160936-BSD1	LCSD	19.407	18.842	ug/m3	103	1.9	70 - 130	30		2
Trichloroethene	B160936-BS1	LCS	28.051	26.869	ug/m3	104		70 - 130			1
	B160936-BSD1	LCSD	27.943	26.869	ug/m3	104	0.4	70 - 130	30		2
Trichlorofluoromethane	B160936-BS1	LCS	30.901	28.092	ug/m3	110		70 - 130			1
	B160936-BSD1	LCSD	31.238	28.092	ug/m3	111	1.1	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B160936-BS1	LCS	37.782	38.318	ug/m3	98.6		70 - 130			1
	B160936-BSD1	LCSD	37.322	38.318	ug/m3	97.4	1.2	70 - 130	30		2
p- & m-Xylenes	B160936-BS1	LCS	47.069	43.421	ug/m3	108		70 - 130			1
	B160936-BSD1	LCSD	47.242	43.421	ug/m3	109	0.4	70 - 130	30		2
o-Xylene	B160936-BS1	LCS	23.751	21.711	ug/m3	109		70 - 130			1
	B160936-BSD1	LCSD	23.925	21.711	ug/m3	110	0.7	70 - 130	30		2
Total Xylenes	B160936-BS1	LCS	70.820	65.132	ug/m3	109		70 - 130			1
	B160936-BSD1	LCSD	71.167	65.132	ug/m3	109	0.5	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B160936-BS1	LCS	73.6	71.6	ug/m3	103		70 - 130			1
	B160936-BSD1	LCSD	74.4	71.6	ug/m3	104	1.0	70 - 130			2
QC Batch ID: B160945											
Benzene	B160945-BS1	LCS	0.29865	0.31948	ug/m3	93.5		70 - 130			3
	B160945-BSD1	LCSD	0.29865	0.31948	ug/m3	93.5	0	70 - 130	30		4
Benzyl chloride	B160945-BS1	LCS	0.39901	0.51772	ug/m3	77.1		70 - 130		J	3
	B160945-BSD1	LCSD	0.37794	0.51772	ug/m3	73.0	5.4	70 - 130	30	J	4
Carbon tetrachloride	B160945-BS1	LCS	0.56182	0.62913	ug/m3	89.3		70 - 130			3
	B160945-BSD1	LCSD	0.55571	0.62913	ug/m3	88.3	1.1	70 - 130	30		4
Chlorobenzene	B160945-BS1	LCS	0.44673	0.46036	ug/m3	97.0		70 - 130			3
	B160945-BSD1	LCSD	0.44277	0.46036	ug/m3	96.2	0.9	70 - 130	30		4
Chloroform	B160945-BS1	LCS	0.47614	0.48825	ug/m3	97.5		70 - 130			3
	B160945-BSD1	LCSD	0.48122	0.48825	ug/m3	98.6	1.1	70 - 130	30		4
1,2-Dibromoethane	B160945-BS1	LCS	0.74607	0.76835	ug/m3	97.1		70 - 130			3
	B160945-BSD1	LCSD	0.73377	0.76835	ug/m3	95.5	1.7	70 - 130	30		4

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B160945											
1,2-Dichlorobenzene	B160945-BS1	LCS	0.59961	0.60124	ug/m3	99.7		70 - 130			3
	B160945-BSD1	LCSD	0.57670	0.60124	ug/m3	95.9	3.9	70 - 130	30		4
1,3-Dichlorobenzene	B160945-BS1	LCS	0.62414	0.60124	ug/m3	104		70 - 130			3
	B160945-BSD1	LCSD	0.56438	0.60124	ug/m3	93.9	10.1	70 - 130	30		4
1,4-Dichlorobenzene	B160945-BS1	LCS	0.54911	0.60124	ug/m3	91.3		70 - 130			3
	B160945-BSD1	LCSD	0.62480	0.60124	ug/m3	104	12.9	70 - 130	30		4
1,1-Dichloroethane	B160945-BS1	LCS	0.39397	0.40474	ug/m3	97.3		70 - 130			3
	B160945-BSD1	LCSD	0.39665	0.40474	ug/m3	98.0	0.7	70 - 130	30		4
1,2-Dichloroethane	B160945-BS1	LCS	0.37916	0.40474	ug/m3	93.7		70 - 130			3
	B160945-BSD1	LCSD	0.37738	0.40474	ug/m3	93.2	0.5	70 - 130	30		4
1,1-Dichloroethene	B160945-BS1	LCS	0.38535	0.39649	ug/m3	97.2		70 - 130			3
	B160945-BSD1	LCSD	0.38682	0.39649	ug/m3	97.6	0.4	70 - 130	30		4
cis-1,2-Dichloroethene	B160945-BS1	LCS	0.37231	0.39649	ug/m3	93.9		70 - 130			3
	B160945-BSD1	LCSD	0.37243	0.39649	ug/m3	93.9	0.0	70 - 130	30		4
Methylene chloride	B160945-BS1	LCS	0.37173	0.34737	ug/m3	107		70 - 130			3
	B160945-BSD1	LCSD	0.37593	0.34737	ug/m3	108	1.1	70 - 130	30		4
Tetrachloroethene	B160945-BS1	LCS	0.66903	0.67825	ug/m3	98.6		70 - 130			3
	B160945-BSD1	LCSD	0.66333	0.67825	ug/m3	97.8	0.9	70 - 130	30		4
Toluene	B160945-BS1	LCS	0.35518	0.37684	ug/m3	94.2		70 - 130			3
	B160945-BSD1	LCSD	0.35303	0.37684	ug/m3	93.7	0.6	70 - 130	30		4
1,1,1-Trichloroethane	B160945-BS1	LCS	0.51632	0.54562	ug/m3	94.6		70 - 130			3
	B160945-BSD1	LCSD	0.51201	0.54562	ug/m3	93.8	0.8	70 - 130	30		4
1,1,2-Trichloroethane	B160945-BS1	LCS	0.53143	0.54562	ug/m3	97.4		70 - 130			3
	B160945-BSD1	LCSD	0.52821	0.54562	ug/m3	96.8	0.6	70 - 130	30		4
Trichloroethene	B160945-BS1	LCS	0.52980	0.53737	ug/m3	98.6		70 - 130			3
	B160945-BSD1	LCSD	0.52458	0.53737	ug/m3	97.6	1.0	70 - 130	30		4
Vinyl chloride	B160945-BS1	LCS	0.29603	0.25562	ug/m3	116		70 - 130			3
	B160945-BSD1	LCSD	0.31226	0.25562	ug/m3	122	5.3	70 - 130	30		4
p- & m-Xylenes	B160945-BS1	LCS	0.85622	0.86843	ug/m3	98.6		70 - 130			3
	B160945-BSD1	LCSD	0.84372	0.86843	ug/m3	97.2	1.5	70 - 130	30		4
o-Xylene	B160945-BS1	LCS	0.42735	0.43421	ug/m3	98.4		70 - 130			3
	B160945-BSD1	LCSD	0.42275	0.43421	ug/m3	97.4	1.1	70 - 130	30		4
Total Xylenes	B160945-BS1	LCS	1.2836	1.3026	ug/m3	98.5		70 - 130			3
	B160945-BSD1	LCSD	1.2665	1.3026	ug/m3	97.2	1.3	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B160945-BS1	LCS	3.48	3.58	ug/m3	97.3		50 - 150			3
	B160945-BSD1	LCSD	3.46	3.58	ug/m3	96.7	0.6	50 - 150			4

QC Batch ID: B162153

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
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Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162153											
Benzene	B162153-BS1	LCS	14.313	15.974	ug/m3	89.6		70 - 130			5
	B162153-BSD1	LCSD	14.472	15.974	ug/m3	90.6	1.1	70 - 130	30		6
Chloroform	B162153-BS1	LCS	21.190	24.413	ug/m3	86.8		70 - 130			5
	B162153-BSD1	LCSD	21.239	24.413	ug/m3	87.0	0.2	70 - 130	30		6
Ethylbenzene	B162153-BS1	LCS	19.887	21.711	ug/m3	91.6		70 - 130			5
	B162153-BSD1	LCSD	19.670	21.711	ug/m3	90.6	1.1	70 - 130	30		6
Tetrachloroethene	B162153-BS1	LCS	30.725	33.913	ug/m3	90.6		70 - 130			5
	B162153-BSD1	LCSD	30.996	33.913	ug/m3	91.4	0.9	70 - 130	30		6
Toluene	B162153-BS1	LCS	17.448	18.842	ug/m3	92.6		70 - 130			5
	B162153-BSD1	LCSD	17.410	18.842	ug/m3	92.4	0.2	70 - 130	30		6
Trichloroethene	B162153-BS1	LCS	24.665	26.869	ug/m3	91.8		70 - 130			5
	B162153-BSD1	LCSD	24.397	26.869	ug/m3	90.8	1.1	70 - 130	30		6
Trichlorofluoromethane	B162153-BS1	LCS	24.046	28.092	ug/m3	85.6		70 - 130			5
	B162153-BSD1	LCSD	24.496	28.092	ug/m3	87.2	1.9	70 - 130	30		6
1,1,2-Trichloro-1,2,2-trifluoroethane	B162153-BS1	LCS	33.797	38.318	ug/m3	88.2		70 - 130			5
	B162153-BSD1	LCSD	34.256	38.318	ug/m3	89.4	1.4	70 - 130	30		6
p- & m-Xylenes	B162153-BS1	LCS	40.946	43.421	ug/m3	94.3		70 - 130			5
	B162153-BSD1	LCSD	40.425	43.421	ug/m3	93.1	1.3	70 - 130	30		6
o-Xylene	B162153-BS1	LCS	20.104	21.711	ug/m3	92.6		70 - 130			5
	B162153-BSD1	LCSD	20.017	21.711	ug/m3	92.2	0.4	70 - 130	30		6
Total Xylenes	B162153-BS1	LCS	61.050	65.132	ug/m3	93.7		70 - 130			5
	B162153-BSD1	LCSD	60.442	65.132	ug/m3	92.8	1.0	70 - 130	30		6
4-Bromofluorobenzene (Surrogate)	B162153-BS1	LCS	73.6	71.6	ug/m3	103		70 - 130			5
	B162153-BSD1	LCSD	73.9	71.6	ug/m3	103	0.3	70 - 130			6

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 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
1	B160936-BS1	LCS	EPA-TO-15	02/28/23	02/28/23 17:08	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
2	B160936-BSD1	LCSD	EPA-TO-15	02/28/23	02/28/23 17:47	BEP	MS-A2	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1

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Reported: 04/03/2023 12:57
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
3	B160945-BS1	LCS	EPA-TO-15-SIM	02/28/23	02/28/23 15:31	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 12:57
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
4	B160945-BSD1	LCSD	EPA-TO-15-SIM	02/28/23	02/28/23 16:04	BEP	MS-A1	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
5	B162153-BS1	LCS	EPA-TO-15	03/17/23	03/17/23 14:31	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1
6	B162153-BSD1	LCSD	EPA-TO-15	03/17/23	03/17/23 15:11	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B162267

Methane (CH4)	B162267-BLK1	ND	ppmv	2.0	1.8		1
---------------	--------------	----	------	-----	-----	--	---

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162267-BLK1	PB	ASTM-D1946	03/20/23	03/20/23 12:26	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 12:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162267											
Methane (CH4)	B162267-BS1	LCS	19441	18000	ppmv	108		70 - 130			1
	B162267-BSD1	LCSD	19386	18000	ppmv	108	0.3	70 - 130	30		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162267-BS1	LCS	ASTM-D1946	03/20/23	03/20/23	11:46	RMK	GC-A1	1
2	B162267-BSD1	LCSD	ASTM-D1946	03/20/23	03/20/23	12:06	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 12:57
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- C01 The calibration curve did not contain the minimum number of standards.



Date of Report: 04/03/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304952
Invoice ID: B471451, B472099, B472853

Enclosed are the results of analyses for samples received by the laboratory on 3/10/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001408949

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / Analytical Rec
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed

2304952

Page: 1 of 1

Section A Required Client Information

Company: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450
Long Beach, CA 20904
Email To: amig@roux.com
Phone: 562-468-8824 Fax:
Requested Date/TAT: Standard

Section B Required Project Information

Report To: Agent McGuire
Copy To:
Purchase Order No.:
Project Name: City Terrace
Project Number: 2855

Section C Invoice Information

Attention: Roux Accounts Payable (roux@roux.com)
Company Name: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 400, Long Beach, CA 90804
Purchase Order Reference: 00132481 & 00132633
Pace Project Manager/Sales Rep: Brianna Schuster / Dawn Genar
Pace Profile #:

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

1 IA-33-1
2 IA-33-1
3 IA-33-2

Method: MC, Fixed Gas (%)
TO-3
TO-3A (Methane)
TO-4 (PCdn)
TO-14
TO-15
TO-15 (SO₂)
TO-15 (SO₂ L&T)

Flow Control Number
Summa Can Number
Center Pressure (Initial Field - psig)
Center Pressure (Final Field - psig)

ITEM #	DATE	TIME	DATE	TIME	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
1	03/17/23	1816	03/18/23	1707	Alex Parditer (Roux)	3/18/23	1752	Alex Parditer (Roux)	3/18/23	1752	Received on Ice
2	03/17/23	1846	03/18/23	1710	Alex Parditer (Roux)	3/18/23	1815	Alex Parditer (Roux)	3/18/23	1815	Sealed Cooler
3	03/17/23	1847	03/18/23	1712	Alex Parditer (Roux)	3/18/23	1815	Alex Parditer (Roux)	3/18/23	1815	Temp n.c.

Comments:

CHK BY DISTRIBUTION
SUB OUT



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PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 of 1	
Submission #: <u>23-04952</u>					
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO/GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUNNING</u> Thermometer ID: _____		Date/Time <u>3-9-23</u>	
		Temperature: (A) <u>Room</u> °C | (C) <u>Temp</u> °C		Analyst Init <u>Spat/1112</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL-304										
QT EPA 509/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 515.2										
QT EPA 515.2 TRAVEL BLANK										
40ml EPA 517										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz IAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	<u>6L</u>	<u>A</u>	<u>A</u>	<u>A</u>						

Comments: _____
 Sample Numbering Completed By: JCD Date/Time: 3-15-23 0950
 A = Actual / C = Corrected

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304952-01	COC Number:	---	Receive Date:	03/10/2023 11:12
	Project Number:	---	Sampling Date:	03/08/2023 17:07
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AA-33-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			
2304952-02	COC Number:	---	Receive Date:	03/10/2023 11:12
	Project Number:	---	Sampling Date:	03/08/2023 17:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-33-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			
2304952-03	COC Number:	---	Receive Date:	03/10/2023 11:12
	Project Number:	---	Sampling Date:	03/08/2023 17:12
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-33-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304952-01		Client Sample Name: AA-33-1, 3/8/2023 5:07:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	10	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	4.2	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.77	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.70	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	V11	1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
Chloromethane	1.3	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.3	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304952-01		Client Sample Name: AA-33-1, 3/8/2023 5:07:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	0.69	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	6.2	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.33	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	0.42	ug/m3	5.0	0.20	EPA-TO-15	ND	J	1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	3.1	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Methyl ethyl ketone	0.71	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304952-01		Client Sample Name: AA-33-1, 3/8/2023 5:07:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	1.5	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.5	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	0.91	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.1	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.40	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	0.91	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	1.5	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	98.2	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	107	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304952-01	Client Sample Name: AA-33-1, 3/8/2023 5:07:00PM, Client								
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/20/23 08:01	03/21/23 04:16	BEP	MS-A2	1	B162268	EPA TO-15	
2	EPA-TO-15-SIM	03/10/23 13:05	03/10/23 21:04	BEP	MS-A2	1	B161688	EPA TO-15	

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304952-01	Client Sample Name: AA-33-1, 3/8/2023 5:07:00PM, Client
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	3.5	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/22/23 08:47	03/22/23 18:49	RMK	GC-A1	1	B162418	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304952-02		Client Sample Name: IA-33-1, 3/8/2023 5:10:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	47	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	19	ug/m3	20	0.15	EPA-TO-15-SIM	ND	J,A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	5.9	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Benzene	4.8	ug/m3	1.0	0.064	EPA-TO-15-SIM	ND	A01	2
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	V11	1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.5	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	0.72	ug/m3	5.0	0.50	EPA-TO-15	ND	J	1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.2	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304952-02		Client Sample Name: IA-33-1, 3/8/2023 5:10:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	46	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	39	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	190	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	1.4	ug/m3	2.0	0.33	EPA-TO-15	ND	J	1
Ethylbenzene	0.56	ug/m3	5.0	0.32	EPA-TO-15	ND	J	1
Ethylbenzene	0.71	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	0.41	ug/m3	2.0	0.34	EPA-TO-15	ND	J	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	60	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	2.1	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304952-02		Client Sample Name: IA-33-1, 3/8/2023 5:10:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	0.60	ug/m3	5.0	0.24	EPA-TO-15	ND	J	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	3.7	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	2.9	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.7	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	2.1	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.56	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
o-Xylene	0.64	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	2.3	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	2.7	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	99.3	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	95.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	114	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304952-02		Client Sample Name: IA-33-1, 3/8/2023 5:10:00PM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/20/23 08:01	03/21/23 05:01	BEP	MS-A2	1	B162268	EPA TO-15	
2	EPA-TO-15-SIM	03/10/23 13:05	03/10/23 23:08	BEP	MS-A2	20	B161688	EPA TO-15	
3	EPA-TO-15-SIM	03/10/23 13:05	03/10/23 21:48	BEP	MS-A2	1	B161688	EPA TO-15	

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304952-02	Client Sample Name: IA-33-1, 3/8/2023 5:10:00PM, Client
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	100	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/22/23 08:48	03/22/23 20:23	RMK	GC-A1	1	B162452	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304952-03		Client Sample Name: IA-33-2, 3/8/2023 5:12:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	18	ug/m3	20	0.15	EPA-TO-15-SIM	ND	J,A01	1
Acetone	47	ug/m3	5.0	0.43	EPA-TO-15	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		2
Benzene	4.1	ug/m3	1.0	0.064	EPA-TO-15-SIM	ND	A01	1
Benzene	5.5	ug/m3	2.0	0.21	EPA-TO-15	ND		2
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		2
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	V11	2
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		2
1,3-Butadiene	1.4	ug/m3	2.0	0.22	EPA-TO-15	ND	J	2
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		2
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		2
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.5	ug/m3	2.0	0.21	EPA-TO-15	ND	J	2
Cyclohexane	0.41	ug/m3	2.0	0.38	EPA-TO-15	ND	J	2
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		2
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.0	ug/m3	5.0	0.45	EPA-TO-15	ND	J	2
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304952-03		Client Sample Name: IA-33-2, 3/8/2023 5:12:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		2
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		2
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		2
1,1-Difluoroethane	58	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	1
1,1-Difluoroethane	72	ug/m3	5.0	2.0	EPA-TO-15	ND		2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Ethanol	170	ug/m3	2.0	0.42	EPA-TO-15	ND		2
Ethyl acetate	1.6	ug/m3	2.0	0.33	EPA-TO-15	ND	J	2
Ethylbenzene	0.78	ug/m3	5.0	0.32	EPA-TO-15	ND	J	2
Ethylbenzene	1.0	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		2
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		2
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		2
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		2
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		2
Isopropyl alcohol	41	ug/m3	2.0	0.32	EPA-TO-15	ND		2
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		2
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.9	ug/m3	2.0	0.19	EPA-TO-15	ND	J	2
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		2
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		2

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 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304952-03		Client Sample Name: IA-33-2, 3/8/2023 5:12:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	2
Styrene	0.81	ug/m3	5.0	0.24	EPA-TO-15	ND	J	2
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		2
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		2
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
Toluene	3.5	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	A01	1
Toluene	4.5	ug/m3	2.0	0.27	EPA-TO-15	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		2
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		2
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		2
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	2
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		2
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	2.2	ug/m3	5.0	0.61	EPA-TO-15	ND	J	2
p- & m-Xylenes	2.7	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.69	ug/m3	5.0	0.30	EPA-TO-15	ND	J	2
o-Xylene	0.82	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	2.9	ug/m3	10	0.91	EPA-TO-15	ND	J	2
Total Xylenes	3.5	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	91.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	98.5	%	70 - 130 (LCL - UCL)		EPA-TO-15			2
4-Bromofluorobenzene (Surrogate)	111	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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 Long Beach, CA 90804

Reported: 04/03/2023 13:19
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304952-03		Client Sample Name: IA-33-2, 3/8/2023 5:12:00PM, Client							
DCN	Method	Prep Date	Run Date/Time		Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-TO-15-SIM	03/10/23 13:05	03/10/23	23:46	BEP	MS-A2	20	B161688	EPA TO-15
2	EPA-TO-15	03/20/23 08:01	03/21/23	05:46	BEP	MS-A2	1	B162268	EPA TO-15
3	EPA-TO-15-SIM	03/10/23 13:05	03/10/23	22:31	BEP	MS-A2	1	B161688	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304952-03	Client Sample Name: IA-33-2, 3/8/2023 5:12:00PM, Client
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	4.4	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/22/23 08:48	03/22/23 20:44	RMK	GC-A1	1	B162452	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
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 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161688							
Acetone	B161688-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B161688-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B161688-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B161688-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B161688-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B161688-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B161688-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B161688-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B161688-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B161688-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B161688-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B161688-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B161688-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B161688-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B161688-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B161688-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B161688-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B161688-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B161688-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B161688-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B161688-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B161688-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B161688-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B161688-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B161688-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B161688-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161688-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B161688-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B161688-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B161688-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B161688-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B161688-BLK1	82.4	%	50 - 150 (LCL - UCL)			1
QC Batch ID: B162268							

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 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162268							
Acetone	B162268-BLK1	ND	ug/m3	5.0	0.43		2
Acrylonitrile	B162268-BLK1	ND	ug/m3	2.0	0.27		2
Allyl chloride	B162268-BLK1	ND	ug/m3	2.0	0.28		2
Benzene	B162268-BLK1	ND	ug/m3	2.0	0.21		2
Benzyl chloride	B162268-BLK1	ND	ug/m3	10	0.26		2
Bromodichloromethane	B162268-BLK1	ND	ug/m3	5.0	0.45		2
Bromoform	B162268-BLK1	ND	ug/m3	10	0.86		2
Bromomethane	B162268-BLK1	ND	ug/m3	2.0	0.47		2
1,3-Butadiene	B162268-BLK1	ND	ug/m3	2.0	0.22		2
Carbon disulfide	B162268-BLK1	ND	ug/m3	2.0	0.19		2
Carbon tetrachloride	B162268-BLK1	ND	ug/m3	5.0	0.45		2
Chlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.40		2
Chloroethane	B162268-BLK1	ND	ug/m3	2.0	0.53		2
Chloroform	B162268-BLK1	ND	ug/m3	5.0	0.54		2
Chloromethane	B162268-BLK1	ND	ug/m3	2.0	0.21		2
Cyclohexane	B162268-BLK1	ND	ug/m3	2.0	0.38		2
Dibromochloromethane	B162268-BLK1	ND	ug/m3	5.0	0.43		2
1,2-Dibromoethane	B162268-BLK1	ND	ug/m3	5.0	0.58		2
1,2-Dichlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.50		2
1,3-Dichlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.31		2
1,4-Dichlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.50		2
Dichlorodifluoromethane	B162268-BLK1	ND	ug/m3	5.0	0.45		2
1,1-Dichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.23		2
1,2-Dichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.26		2
1,1-Dichloroethene	B162268-BLK1	ND	ug/m3	5.0	0.31		2
cis-1,2-Dichloroethene	B162268-BLK1	ND	ug/m3	2.0	0.32		2
trans-1,2-Dichloroethene	B162268-BLK1	ND	ug/m3	2.0	0.27		2
1,2-Dichloropropane	B162268-BLK1	ND	ug/m3	5.0	0.32		2
cis-1,3-Dichloropropene	B162268-BLK1	ND	ug/m3	5.0	0.30		2
trans-1,3-Dichloropropene	B162268-BLK1	ND	ug/m3	5.0	0.40		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162268-BLK1	ND	ug/m3	5.0	0.91		2
1,1-Difluoroethane	B162268-BLK1	ND	ug/m3	5.0	2.0		2
1,4-Dioxane	B162268-BLK1	ND	ug/m3	2.0	0.33		2
Ethanol	B162268-BLK1	ND	ug/m3	2.0	0.42		2

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 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162268							
Ethyl acetate	B162268-BLK1	ND	ug/m3	2.0	0.33		2
Ethylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.32		2
1-Ethyl-4-methylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.30		2
n-Heptane	B162268-BLK1	ND	ug/m3	2.0	0.34		2
Hexachlorobutadiene	B162268-BLK1	ND	ug/m3	10	1.5		2
Hexane	B162268-BLK1	ND	ug/m3	5.0	0.20		2
2-Hexanone	B162268-BLK1	ND	ug/m3	5.0	0.29		2
Isopropyl alcohol	B162268-BLK1	ND	ug/m3	2.0	0.32		2
Methylene chloride	B162268-BLK1	ND	ug/m3	10	0.40		2
Methyl ethyl ketone	B162268-BLK1	ND	ug/m3	2.0	0.19		2
Methyl isobutyl ketone	B162268-BLK1	ND	ug/m3	5.0	0.26		2
Methyl t-butyl ether	B162268-BLK1	ND	ug/m3	2.0	0.28		2
Propylene	B162268-BLK1	ND	ug/m3	2.0	0.25	C01	2
Styrene	B162268-BLK1	ND	ug/m3	5.0	0.24		2
1,1,2,2-Tetrachloroethane	B162268-BLK1	ND	ug/m3	5.0	0.47		2
Tetrachloroethene	B162268-BLK1	ND	ug/m3	2.0	0.50		2
Tetrahydrofuran	B162268-BLK1	ND	ug/m3	2.0	0.27		2
Toluene	B162268-BLK1	ND	ug/m3	2.0	0.27		2
1,2,4-Trichlorobenzene	B162268-BLK1	ND	ug/m3	10	0.82		2
1,1,1-Trichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.39		2
1,1,2-Trichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.61		2
Trichloroethene	B162268-BLK1	ND	ug/m3	2.0	0.54		2
Trichlorofluoromethane	B162268-BLK1	ND	ug/m3	5.0	0.47		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B162268-BLK1	ND	ug/m3	5.0	0.55		2
1,2,4-Trimethylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.40		2
1,3,5-Trimethylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.40		2
Vinyl acetate	B162268-BLK1	ND	ug/m3	2.0	0.33		2
Vinyl chloride	B162268-BLK1	ND	ug/m3	2.0	0.39		2
p- & m-Xylenes	B162268-BLK1	ND	ug/m3	5.0	0.61		2
o-Xylene	B162268-BLK1	ND	ug/m3	5.0	0.30		2
Total Xylenes	B162268-BLK1	ND	ug/m3	10	0.91		2
4-Bromofluorobenzene (Surrogate)	B162268-BLK1	97.1	%	70 - 130 (LCL - UCL)			2

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:19
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161688-BLK1	PB	EPA-TO-15-SIM	03/10/23	03/10/23 19:12	BEP	MS-A2	1
2	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161688											
Benzene	B161688-BS1	LCS	0.26261	0.31948	ug/m3	82.2		70 - 130			1
	B161688-BSD1	LCSD	0.26219	0.31948	ug/m3	82.1	0.2	70 - 130	30		2
Benzyl chloride	B161688-BS1	LCS	0.37985	0.51772	ug/m3	73.4		70 - 130		J	1
	B161688-BSD1	LCSD	0.40237	0.51772	ug/m3	77.7	5.8	70 - 130	30	J	2
Carbon tetrachloride	B161688-BS1	LCS	0.58522	0.62913	ug/m3	93.0		70 - 130			1
	B161688-BSD1	LCSD	0.58314	0.62913	ug/m3	92.7	0.4	70 - 130	30		2
Chlorobenzene	B161688-BS1	LCS	0.40617	0.46036	ug/m3	88.2		70 - 130			1
	B161688-BSD1	LCSD	0.41147	0.46036	ug/m3	89.4	1.3	70 - 130	30		2
Chloroform	B161688-BS1	LCS	0.44309	0.48825	ug/m3	90.8		70 - 130			1
	B161688-BSD1	LCSD	0.44709	0.48825	ug/m3	91.6	0.9	70 - 130	30		2
1,2-Dibromoethane	B161688-BS1	LCS	0.69758	0.76835	ug/m3	90.8		70 - 130			1
	B161688-BSD1	LCSD	0.70181	0.76835	ug/m3	91.3	0.6	70 - 130	30		2
1,2-Dichlorobenzene	B161688-BS1	LCS	0.53913	0.60124	ug/m3	89.7		70 - 130			1
	B161688-BSD1	LCSD	0.55488	0.60124	ug/m3	92.3	2.9	70 - 130	30		2
1,3-Dichlorobenzene	B161688-BS1	LCS	0.54009	0.60124	ug/m3	89.8		70 - 130			1
	B161688-BSD1	LCSD	0.56246	0.60124	ug/m3	93.5	4.1	70 - 130	30		2
1,4-Dichlorobenzene	B161688-BS1	LCS	0.59390	0.60124	ug/m3	98.8		70 - 130			1
	B161688-BSD1	LCSD	0.56696	0.60124	ug/m3	94.3	4.6	70 - 130	30		2
1,1-Dichloroethane	B161688-BS1	LCS	0.35508	0.40474	ug/m3	87.7		70 - 130			1
	B161688-BSD1	LCSD	0.35156	0.40474	ug/m3	86.9	1.0	70 - 130	30		2
1,2-Dichloroethane	B161688-BS1	LCS	0.36406	0.40474	ug/m3	89.9		70 - 130			1
	B161688-BSD1	LCSD	0.36597	0.40474	ug/m3	90.4	0.5	70 - 130	30		2
1,1-Dichloroethene	B161688-BS1	LCS	0.33095	0.39649	ug/m3	83.5		70 - 130			1
	B161688-BSD1	LCSD	0.33230	0.39649	ug/m3	83.8	0.4	70 - 130	30		2
cis-1,2-Dichloroethene	B161688-BS1	LCS	0.32905	0.39649	ug/m3	83.0		70 - 130			1
	B161688-BSD1	LCSD	0.33171	0.39649	ug/m3	83.7	0.8	70 - 130	30		2
Methylene chloride	B161688-BS1	LCS	0.32879	0.34737	ug/m3	94.7		70 - 130			1
	B161688-BSD1	LCSD	0.32473	0.34737	ug/m3	93.5	1.2	70 - 130	30		2
Tetrachloroethene	B161688-BS1	LCS	0.60622	0.67825	ug/m3	89.4		70 - 130			1
	B161688-BSD1	LCSD	0.61029	0.67825	ug/m3	90.0	0.7	70 - 130	30		2
Toluene	B161688-BS1	LCS	0.31165	0.37684	ug/m3	82.7		70 - 130			1
	B161688-BSD1	LCSD	0.31026	0.37684	ug/m3	82.3	0.4	70 - 130	30		2
1,1,1-Trichloroethane	B161688-BS1	LCS	0.50061	0.54562	ug/m3	91.8		70 - 130			1
	B161688-BSD1	LCSD	0.49979	0.54562	ug/m3	91.6	0.2	70 - 130	30		2
1,1,2-Trichloroethane	B161688-BS1	LCS	0.49242	0.54562	ug/m3	90.3		70 - 130			1
	B161688-BSD1	LCSD	0.50104	0.54562	ug/m3	91.8	1.7	70 - 130	30		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161688											
Trichloroethene	B161688-BS1	LCS	0.46811	0.53737	ug/m3	87.1		70 - 130			1
	B161688-BSD1	LCSD	0.47622	0.53737	ug/m3	88.6	1.7	70 - 130	30		2
Vinyl chloride	B161688-BS1	LCS	0.26086	0.25562	ug/m3	102		70 - 130			1
	B161688-BSD1	LCSD	0.24767	0.25562	ug/m3	96.9	5.2	70 - 130	30		2
p- & m-Xylenes	B161688-BS1	LCS	0.74203	0.86843	ug/m3	85.4		70 - 130			1
	B161688-BSD1	LCSD	0.73890	0.86843	ug/m3	85.1	0.4	70 - 130	30		2
o-Xylene	B161688-BS1	LCS	0.36126	0.43421	ug/m3	83.2		70 - 130			1
	B161688-BSD1	LCSD	0.36309	0.43421	ug/m3	83.6	0.5	70 - 130	30		2
Total Xylenes	B161688-BS1	LCS	1.1033	1.3026	ug/m3	84.7		70 - 130			1
	B161688-BSD1	LCSD	1.1020	1.3026	ug/m3	84.6	0.1	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161688-BS1	LCS	3.61	3.58	ug/m3	101		50 - 150			1
	B161688-BSD1	LCSD	3.65	3.58	ug/m3	102	1.1	50 - 150			2
QC Batch ID: B162268											
Benzene	B162268-BS1	LCS	15.590	15.974	ug/m3	97.6		70 - 130			3
	B162268-BSD1	LCSD	15.718	15.974	ug/m3	98.4	0.8	70 - 130	30		4
Chloroform	B162268-BS1	LCS	23.436	24.413	ug/m3	96.0		70 - 130			3
	B162268-BSD1	LCSD	23.631	24.413	ug/m3	96.8	0.8	70 - 130	30		4
Ethylbenzene	B162268-BS1	LCS	20.712	21.711	ug/m3	95.4		70 - 130			3
	B162268-BSD1	LCSD	21.146	21.711	ug/m3	97.4	2.1	70 - 130	30		4
Tetrachloroethene	B162268-BS1	LCS	33.641	33.913	ug/m3	99.2		70 - 130			3
	B162268-BSD1	LCSD	34.184	33.913	ug/m3	101	1.6	70 - 130	30		4
Toluene	B162268-BS1	LCS	18.805	18.842	ug/m3	99.8		70 - 130			3
	B162268-BSD1	LCSD	19.219	18.842	ug/m3	102	2.2	70 - 130	30		4
Trichloroethene	B162268-BS1	LCS	26.815	26.869	ug/m3	99.8		70 - 130			3
	B162268-BSD1	LCSD	27.406	26.869	ug/m3	102	2.2	70 - 130	30		4
Trichlorofluoromethane	B162268-BS1	LCS	27.137	28.092	ug/m3	96.6		70 - 130			3
	B162268-BSD1	LCSD	27.249	28.092	ug/m3	97.0	0.4	70 - 130	30		4
1,1,2-Trichloro-1,2,2-trifluoroethane	B162268-BS1	LCS	37.015	38.318	ug/m3	96.6		70 - 130			3
	B162268-BSD1	LCSD	37.322	38.318	ug/m3	97.4	0.8	70 - 130	30		4
p- & m-Xylenes	B162268-BS1	LCS	43.378	43.421	ug/m3	99.9		70 - 130			3
	B162268-BSD1	LCSD	44.680	43.421	ug/m3	103	3.0	70 - 130	30		4
o-Xylene	B162268-BS1	LCS	21.190	21.711	ug/m3	97.6		70 - 130			3
	B162268-BSD1	LCSD	22.058	21.711	ug/m3	102	4.0	70 - 130	30		4
Total Xylenes	B162268-BS1	LCS	64.567	65.132	ug/m3	99.1		70 - 130			3
	B162268-BSD1	LCSD	66.738	65.132	ug/m3	102	3.3	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B162268-BS1	LCS	72.7	71.6	ug/m3	102		70 - 130			3
	B162268-BSD1	LCSD	73.9	71.6	ug/m3	103	1.7	70 - 130			4

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:19
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161688-BS1	LCS	EPA-TO-15-SIM	03/10/23	03/10/23 17:58	BEP	MS-A2	1
2	B161688-BSD1	LCSD	EPA-TO-15-SIM	03/10/23	03/10/23 18:37	BEP	MS-A2	1
3	B162268-BS1	LCS	EPA-TO-15	03/20/23	03/20/23 13:31	BEP	MS-A2	1
4	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23 14:14	BEP	MS-A2	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B162418

Methane (CH4)	B162418-BLK1	ND	ppmv	2.0	1.8		1
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QC Batch ID: B162452

Methane (CH4)	B162452-BLK1	ND	ppmv	2.0	1.8		2
---------------	--------------	----	------	-----	-----	--	---

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162418-BLK1	PB	ASTM-D1946	03/22/23	03/22/23 11:55	RMK	GC-A1	1
2	B162452-BLK1	PB	ASTM-D1946	03/22/23	03/22/23 17:17	RMK	GC-A1	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:19
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162418											
Methane (CH4)	B162418-BS1	LCS	18710	18000	ppmv	104		70 - 130			1
	B162418-BSD1	LCSD	18732	18000	ppmv	104	0.1	70 - 130	30		2
QC Batch ID: B162452											
Methane (CH4)	B162452-BS1	LCS	19118	18000	ppmv	106		70 - 130			3
	B162452-BSD1	LCSD	19111	18000	ppmv	106	0.0	70 - 130	30		4

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162418-BS1	LCS	ASTM-D1946	03/22/23	03/22/23	11:14	RMK	GC-A1	1
2	B162418-BSD1	LCSD	ASTM-D1946	03/22/23	03/22/23	11:34	RMK	GC-A1	1
3	B162452-BS1	LCS	ASTM-D1946	03/22/23	03/22/23	16:36	RMK	GC-A1	1
4	B162452-BSD1	LCSD	ASTM-D1946	03/22/23	03/22/23	16:57	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:19
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- C01 The calibration curve did not contain the minimum number of standards.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Date of Report: 03/16/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304990
Invoice ID: B471502

Enclosed are the results of analyses for samples received by the laboratory on 3/10/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "BS", is positioned above a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", is positioned above a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / Analytical Re
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be complete

Page: 1 of 1

23-04990

Section A
Required Client Information:

Company: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450
Long Beach, CA 20804
Email To: amcgrae@rouxinc.com
Phone: 562-446-9624 Fax:
Requester: [Blank] Date: [Blank] Standard:
Report To: April McGuire
City: [Blank]
Purchase Order No.:
Project Name: City Terrace
Project Number: 2855

Section B
Required Project Information:

Attention: Roux Accounts Payable (rouxap@rouxinc.com)
Company Name: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
Place Quote Reference: 20132481 & 00132633
Place Project Manager/Sales Rep: Brianna Schultz / Dawn Giron
Place Profile #:

Section C
Invoice Information:

Program:
 USF Superfund Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other
Reporting Oblig:
Agency: [Blank] Reg#: [Blank] Permit#: [Blank]
Location of Sampling by State: CA
Report Level: II, III, IV, Other

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE
SU-33-1
SU-33-2

ITEM #	COLLECTED		RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS	
	DATE	TIME	DATE	TIME	DATE	TIME	Temp in °C	Received on Ice
1	3/19/23	1553	3/19/23	1638	3/19/23	1638		
2	3/19/23	1550	3/19/23	1659	3/19/23	1643		

Method:	Flow Control Number
PM10	
3C, Fixed Gas (%)	
TO-3M (Metformin)	
TO-4 (PCBs)	
TO-13 (PAHs)	
TO-14	
TO-15	
TO-15 Short List	
TO-15 SM	

Comments: CHK BY [Signature] DISTRIBUTION [Signature] SUB OUT [Signature]

RELINQUISHED BY / AFFILIATION: Jones Jones / Roux
ACCEPTED BY / AFFILIATION: Jones Jones / Roux
DATE: 3/19/23 1638
DATE: 3/19/23 1659
DATE: 3/19/23 1643

SAMPLER NAME AND SIGNATURE: AMERSON JONES
DATE: 02/09/20

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 Of 1								
Submission #: <u>23-04990</u>												
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S							
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____												
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____												
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COG? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												
COC Received YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		Emissivity: _____ Container: <u>SUMMA</u> Thermometer ID: _____		Date/Time: <u>3-10-23</u>								
		Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Analyst Init: <u>SMH/1043</u>								
SAMPLE CONTAINERS			SAMPLE NUMBERS									
			1	2	3	4	5	6	7	8	9	10
QT PE UNPRES												
4oz / 8oz / 16oz PE UNPRES												
2oz Cr ⁶⁺												
QT INORGANIC CHEMICAL METALS												
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz												
PT CYANIDE												
PT NITROGEN FORMS												
PT TOTAL SULFIDE												
3oz. NITRATE / NITRITE												
PT TOTAL ORGANIC CARBON												
PT CHEMICAL OXYGEN DEMAND												
PT PHENOLICS												
40ml VOA VIAL TRAVEL BLANK												
40ml VOA VIAL												
QT EPA 1664B												
PT ODOR												
RADIOLOGICAL												
BACTERIOLOGICAL												
40 ml VOA VIAL- 204												
QT EPA 503/603.2/803.1A												
QT EPA 515.1/815.1A												
QT EPA 525.2												
QT EPA 525.2 TRAVEL BLANK												
40ml EPA 547												
40ml EPA 531.1												
8oz EPA 548.1												
QT EPA 549.2												
QT EPA 8015M												
QT EPA 8279C												
3oz / 16oz / 32oz AMBER												
8oz / 16oz / 32oz JAR												
SOIL SLEEVE												
PCB VIAL												
PLASTIC BAG												
TEDLAR BAG												
FERROUS IRON												
ENCLOSURE												
SMART KIT												
SUMMA CANISTER			<u>1-4L</u>	<u>A</u>	<u>A</u>							

Comments: _____
 Sample Numbering Completed By: JCD Date/Time: 3-10-23 1520
 (= Actual / C = Corrected)



Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/16/2023 8:06
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304990-01	COC Number:	---	Receive Date:	03/10/2023 10:43
	Project Number:	---	Sampling Date:	03/09/2023 15:59
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-33-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			
	2304990-02	COC Number:	---	Receive Date:	03/10/2023 10:43
Project Number:		---	Sampling Date:	03/09/2023 15:56
Sampling Location:		---	Sample Depth:	---
Sampling Point:		SV-33-2	Lab Matrix:	Air
Sampled By:		Client	Sample Type:	Vapor or Air
<hr/>				

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304990-01		Client Sample Name: SV-33-1, 3/9/2023 3:59:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	41	ug/m3	8.0	0.68	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Benzene	6.0	ug/m3	3.2	0.33	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.41	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.2	0.75	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.2	0.35	EPA-TO-15	ND	A01	1
Carbon disulfide	14	ug/m3	3.2	0.30	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.2	0.84	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	8.0	0.86	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	3.2	0.33	EPA-TO-15	ND	A01	1
Cyclohexane	1.1	ug/m3	3.2	0.60	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	8.0	0.68	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	2.0	ug/m3	8.0	0.92	EPA-TO-15	ND	J,A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.0	0.49	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.5	ug/m3	8.0	0.72	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.0	0.37	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.0	0.41	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.0	0.49	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.2	0.51	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.0	0.51	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.0	0.48	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.0	1.4	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	13	ug/m3	8.0	3.2	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304990-01		Client Sample Name: SV-33-1, 3/9/2023 3:59:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	17	ug/m3	3.2	0.67	EPA-TO-15	ND	A01	1
Ethyl acetate	2.2	ug/m3	3.2	0.52	EPA-TO-15	ND	J,A01	1
Ethylbenzene	3.5	ug/m3	8.0	0.51	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	1.0	ug/m3	8.0	0.48	EPA-TO-15	ND	J,A01	1
n-Heptane	8.1	ug/m3	3.2	0.54	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	1
Hexane	3.8	ug/m3	8.0	0.32	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	8.0	0.46	EPA-TO-15	ND	A01	1
Isopropyl alcohol	40	ug/m3	3.2	0.51	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.64	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	3.5	ug/m3	3.2	0.30	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	0.98	ug/m3	8.0	0.41	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.2	0.40	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	8.0	0.38	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.0	0.75	EPA-TO-15	ND	A01	1
Tetrachloroethene	1.3	ug/m3	3.2	0.80	EPA-TO-15	ND	J,A01	1
Tetrahydrofuran	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Toluene	10	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.0	0.62	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.0	0.97	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.2	0.86	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.3	ug/m3	8.0	0.75	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.0	0.87	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.8	ug/m3	8.0	0.64	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.2	0.62	EPA-TO-15	ND	A01	1
p- & m-Xylenes	11	ug/m3	8.0	0.97	EPA-TO-15	ND	A01	1
o-Xylene	3.3	ug/m3	8.0	0.48	EPA-TO-15	ND	J,A01	1
Total Xylenes	14	ug/m3	16	1.4	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	103	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/16/2023 8:06
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304990-01 **Client Sample Name:** SV-33-1, 3/9/2023 3:59:00PM, Client

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15	03/14/23 13:48	03/14/23 23:26		BEP	MS-A1	1.590	B161871	EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304990-02		Client Sample Name: SV-33-2, 3/9/2023 3:56:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	42	ug/m3	7.8	0.67	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.1	0.44	EPA-TO-15	ND	A01	1
Benzene	5.1	ug/m3	3.1	0.33	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.41	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	7.8	0.70	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.1	0.73	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.1	0.34	EPA-TO-15	ND	A01	1
Carbon disulfide	14	ug/m3	3.1	0.30	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	7.8	0.70	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	7.8	0.62	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.1	0.83	EPA-TO-15	ND	A01	1
Chloroform	0.84	ug/m3	7.8	0.84	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.1	0.33	EPA-TO-15	ND	A01	1
Cyclohexane	1.6	ug/m3	3.1	0.59	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	7.8	0.67	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	7.8	0.90	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	7.8	0.78	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	7.8	0.48	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	7.8	0.78	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.5	ug/m3	7.8	0.70	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	7.8	0.36	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	7.8	0.41	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	7.8	0.48	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.1	0.50	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	7.8	0.50	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	7.8	0.47	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	7.8	0.62	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	7.8	1.4	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	12	ug/m3	7.8	3.1	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.1	0.51	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304990-02		Client Sample Name: SV-33-2, 3/9/2023 3:56:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	20	ug/m3	3.1	0.66	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	3.1	0.51	EPA-TO-15	ND	A01	1
Ethylbenzene	3.3	ug/m3	7.8	0.50	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	1.1	ug/m3	7.8	0.47	EPA-TO-15	ND	J,A01	1
n-Heptane	7.8	ug/m3	3.1	0.53	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.3	EPA-TO-15	ND	A01	1
Hexane	5.7	ug/m3	7.8	0.31	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	7.8	0.45	EPA-TO-15	ND	A01	1
Isopropyl alcohol	35	ug/m3	3.1	0.50	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.62	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	3.3	ug/m3	3.1	0.30	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	1.0	ug/m3	7.8	0.41	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.1	0.44	EPA-TO-15	ND	A01	1
Propylene	8.9	ug/m3	3.1	0.39	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	7.8	0.37	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	7.8	0.73	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.1	0.78	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
Toluene	10	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	7.8	0.61	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	7.8	0.95	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.1	0.84	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.3	ug/m3	7.8	0.73	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	7.8	0.86	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	2.2	ug/m3	7.8	0.62	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	7.8	0.62	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.1	0.51	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.1	0.61	EPA-TO-15	ND	A01	1
p- & m-Xylenes	11	ug/m3	7.8	0.95	EPA-TO-15	ND	A01	1
o-Xylene	3.5	ug/m3	7.8	0.47	EPA-TO-15	ND	J,A01	1
Total Xylenes	15	ug/m3	16	1.4	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	100	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304990-02	Client Sample Name: SV-33-2, 3/9/2023 3:56:00PM, Client						
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	03/14/23 13:48	03/15/23 00:02	BEP	MS-A1	1.560	B161871 EPA TO-15

DCN = Data Continuation Number

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Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161871							
Acetone	B161871-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B161871-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B161871-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B161871-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B161871-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B161871-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B161871-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B161871-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B161871-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B161871-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B161871-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B161871-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B161871-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B161871-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B161871-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B161871-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B161871-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B161871-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B161871-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B161871-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B161871-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B161871-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B161871-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B161871-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B161871-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B161871-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B161871-BLK1	ND	ug/m3	2.0	0.42		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161871							
Ethyl acetate	B161871-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B161871-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B161871-BLK1	ND	ug/m3	10	1.5		1
Hexane	B161871-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B161871-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B161871-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B161871-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B161871-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B161871-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B161871-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B161871-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B161871-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B161871-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B161871-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B161871-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B161871-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B161871-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B161871-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B161871-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161871-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B161871-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B161871-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B161871-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B161871-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B161871-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B161871-BLK1	90.5	%	70 - 130 (LCL - UCL)			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1

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Long Beach, CA 90804

Reported: 03/16/2023 8:06
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1

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Reported: 03/16/2023 8:06
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B161871											
Benzene	B161871-BS1	LCS	14.856	15.974	ug/m3	93.0		70 - 130			1
	B161871-BSD1	LCSD	15.047	15.974	ug/m3	94.2	1.3	70 - 130	30		2
Chloroform	B161871-BS1	LCS	22.899	24.413	ug/m3	93.8		70 - 130			1
	B161871-BSD1	LCSD	22.850	24.413	ug/m3	93.6	0.2	70 - 130	30		2
Ethylbenzene	B161871-BS1	LCS	20.625	21.711	ug/m3	95.0		70 - 130			1
	B161871-BSD1	LCSD	20.538	21.711	ug/m3	94.6	0.4	70 - 130	30		2
Tetrachloroethene	B161871-BS1	LCS	31.132	33.913	ug/m3	91.8		70 - 130			1
	B161871-BSD1	LCSD	30.589	33.913	ug/m3	90.2	1.8	70 - 130	30		2
Toluene	B161871-BS1	LCS	18.616	18.842	ug/m3	98.8		70 - 130			1
	B161871-BSD1	LCSD	18.352	18.842	ug/m3	97.4	1.4	70 - 130	30		2
Trichloroethene	B161871-BS1	LCS	24.665	26.869	ug/m3	91.8		70 - 130			1
	B161871-BSD1	LCSD	24.934	26.869	ug/m3	92.8	1.1	70 - 130	30		2
Trichlorofluoromethane	B161871-BS1	LCS	26.013	28.092	ug/m3	92.6		70 - 130			1
	B161871-BSD1	LCSD	26.575	28.092	ug/m3	94.6	2.1	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B161871-BS1	LCS	34.563	38.318	ug/m3	90.2		70 - 130			1
	B161871-BSD1	LCSD	34.946	38.318	ug/m3	91.2	1.1	70 - 130	30		2
p- & m-Xylenes	B161871-BS1	LCS	41.815	43.421	ug/m3	96.3		70 - 130			1
	B161871-BSD1	LCSD	41.945	43.421	ug/m3	96.6	0.3	70 - 130	30		2
o-Xylene	B161871-BS1	LCS	21.016	21.711	ug/m3	96.8		70 - 130			1
	B161871-BSD1	LCSD	21.146	21.711	ug/m3	97.4	0.6	70 - 130	30		2
Total Xylenes	B161871-BS1	LCS	62.831	65.132	ug/m3	96.5		70 - 130			1
	B161871-BSD1	LCSD	63.091	65.132	ug/m3	96.9	0.4	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161871-BS1	LCS	71.7	71.6	ug/m3	100		70 - 130			1
	B161871-BSD1	LCSD	71.1	71.6	ug/m3	99.4	0.8	70 - 130			2

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Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23 16:56	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23 17:28	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/16/2023 8:06
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

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



Date of Report: 04/03/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2305062
Invoice ID: B472254, B472857

Enclosed are the results of analyses for samples received by the laboratory on 3/13/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001409445

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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2305062

AIR: CHAIN-OF-CUSTODY / Analytical Requisition

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and signed.

Page: 1 of 1

2305062

Section C

Section B

Section A

Program
 UST Superfund Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other

Location of Sampling by State: CA

Report Level: I, II, III, IV, Other

Invoice Information
 Attention: Roux Accounts Payable (roux@rouxinc.com)
 Company Name: Roux
 Address: 5150 E. Pacific Coast Hwy. Ste. 450, Long Beach, CA 90804
 P.O. Box Reference: 00132481 & 00132633
 Pick Project Manager/Sales Rep: Brianna Schuler / Dawn Connor
 Pick Profile #:

Required Project Information
 Report To: April McGuire
 Copy To:
 Purchase Order No.:
 Project Name: City Terrace
 Project Number: 2465

Required Client Information
 Company: Roux
 Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
 Email To: emcguire@rouxinc.com
 Phone: 562-466-9824 Fax:
 Requested Due Date/TAT: Standard

ITEM #	*Section D Required Client Information		COLLECTED		Summa Can Number	Flow Control Number	Picke Lab ID
	AIR SAMPLE ID	Sample IDs MUST BE UNIQUE	DATE	TIME			
1	AA-34-1		3/9/23	1323	4	3974	
2	IA-34-1		3/9/23	1551	5	03878	
3	IA-34-2		3/9/23	1552	7	06026	
4	IA-34-2-D		3/9/23	1552	5	06028	
5	SU-34-1		3/10/23	1436	5	1024	
6	SU-34-2		3/10/23	1437	5	10371412	

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Cameron Jones (Roux)	3/10/23	1607	Alex Peddikis (Roux)	3/10/23	1602
Alex Peddikis (Roux)	3/10/23	1630	Emerging Rec	3/13/23	0930

CHK BY: [Signature] DISTRIBUTION SUB-OUT

SAMPLER NAME AND SIGNATURE
 PRINT NAME OF SAMPLER: CAMERON JONES
 SIGNATURE OF SAMPLER: [Signature]
 DATE SIGNED (MM/DD/YY): 03/10/23

FC046Rev 01, 03Feb2010

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

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PACE ANALYTICAL 23-05062 COOLER RECEIPT FORM Page 1 Of 1

Submission #: 23-05062

SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
---	--	--	---

Refrigerant: Ice Blue Ice None Other Comments: _____

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

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

COC Received YES NO Emissivity: _____ Container Summa Thermometer ID: _____ Date/Time 3-13-23
 Temperature: (A) Room °C / (C) Temp °C Analyst Init SMH 0936

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
4oz PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁴										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PT PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 503/608, 308/614										
QT EPA 515, 1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 3015M										
QT EPA 3170C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz TALL										
SOIL SLERVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART-JET <u>Summa Canister 1.4L</u>										
SUMMA CANISTER <u>6L</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>

Comments: _____
 Sample Numbering Completed By: MAJ Date/Time: 3/13/23 1041
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
2305062-01	COC Number:	---		Receive Date:	03/13/2023 10:58
	Project Number:	---		Sampling Date:	03/10/2023 10:19
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	AA-34-1		Lab Matrix:	Air
	Sampled By:	Cameron Jones		Sample Type:	Vapor or Air
2305062-02	COC Number:	---		Receive Date:	03/13/2023 10:58
	Project Number:	---		Sampling Date:	03/10/2023 10:15
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	IA-34-1		Lab Matrix:	Air
	Sampled By:	Cameron Jones		Sample Type:	Vapor or Air
2305062-03	COC Number:	---		Receive Date:	03/13/2023 10:58
	Project Number:	---		Sampling Date:	03/10/2023 10:17
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	IA-34-2		Lab Matrix:	Air
	Sampled By:	Cameron Jones		Sample Type:	Vapor or Air
2305062-04	COC Number:	---		Receive Date:	03/13/2023 10:58
	Project Number:	---		Sampling Date:	03/10/2023 13:17
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	IA-34-2-D		Lab Matrix:	Air
	Sampled By:	Cameron Jones		Sample Type:	Vapor or Air
2305062-05	COC Number:	---		Receive Date:	03/13/2023 10:58
	Project Number:	---		Sampling Date:	03/10/2023 14:44
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	SV-34-1		Lab Matrix:	Air
	Sampled By:	Cameron Jones		Sample Type:	Vapor or Air
2305062-06	COC Number:	---		Receive Date:	03/13/2023 10:58
	Project Number:	---		Sampling Date:	03/10/2023 14:37
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	SV-34-2		Lab Matrix:	Air
	Sampled By:	Cameron Jones		Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305062-01		Client Sample Name: AA-34-1, 3/10/2023 10:19:00AM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	10	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	8.9	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.67	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.64	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	1.9	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2

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4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.pacelabs.com



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305062-01		Client Sample Name: AA-34-1, 3/10/2023 10:19:00AM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	5.6	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.31	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	2.4	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Methyl ethyl ketone	0.97	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305062-01		Client Sample Name: AA-34-1, 3/10/2023 10:19:00AM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	1.6	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.6	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
1,2,4-Trimethylbenzene	0.54	ug/m3	5.0	0.40	EPA-TO-15	ND	J	1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	1.1	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.2	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.39	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	1.1	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	1.5	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	97.5	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	108	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:26
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305062-01	Client Sample Name: AA-34-1, 3/10/2023 10:19:00AM, Cameron Jones								
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/22/23 13:21	03/23/23 10:46	BEP	MS-A2	1	B162459	EPA TO-15	
2	EPA-TO-15-SIM	03/15/23 13:22	03/16/23 02:50	BEP	MS-A1	1	B161965	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2305062-01	Client Sample Name: AA-34-1, 3/10/2023 10:19:00AM, Cameron Jones
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	86	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/23/23 08:59	03/23/23 15:31	RMK	GC-A1	1	B162517	No Prep

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305062-02		Client Sample Name: IA-34-1, 3/10/2023 10:15:00AM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	70	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	68	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.93	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.92	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	1.9	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.7	ug/m3	1.0	0.10	EPA-TO-15-SIM	ND	A01	2

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 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305062-02		Client Sample Name: IA-34-1, 3/10/2023 10:15:00AM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	1.1	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	110	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	1.6	ug/m3	2.0	0.33	EPA-TO-15	ND	J	1
Ethylbenzene	0.56	ug/m3	5.0	0.32	EPA-TO-15	ND	J	1
Ethylbenzene	0.62	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	0.45	ug/m3	2.0	0.34	EPA-TO-15	ND	J	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	6.9	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.5	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305062-02		Client Sample Name: IA-34-1, 3/10/2023 10:15:00AM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		1
Styrene	0.81	ug/m3	5.0	0.24	EPA-TO-15	ND	J	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	2.2	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	1.9	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	J,A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.62	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	2.0	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	2.2	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.78	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
o-Xylene	0.86	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	2.8	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	3.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	96.8	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	98.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	112	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305062-02		Client Sample Name: IA-34-1, 3/10/2023 10:15:00AM, Cameron Jones							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/22/23 13:21	03/23/23 11:32	BEP	MS-A2	1	B162459	EPA TO-15	
2	EPA-TO-15-SIM	03/15/23 13:22	03/16/23 05:12	BEP	MS-A1	20	B161965	EPA TO-15	
3	EPA-TO-15-SIM	03/15/23 13:22	03/16/23 03:26	BEP	MS-A1	1	B161965	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2305062-02	Client Sample Name: IA-34-1, 3/10/2023 10:15:00AM, Cameron Jones
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.3	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/23/23 08:59	03/23/23 15:51	RMK	GC-A1	1	B162517	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305062-03		Client Sample Name: IA-34-2, 3/10/2023 10:17:00AM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	61	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	65	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.93	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.89	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	1.8	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	3.1	ug/m3	1.0	0.10	EPA-TO-15-SIM	ND	A01	2

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 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305062-03		Client Sample Name: IA-34-2, 3/10/2023 10:17:00AM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	1.6	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	100	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	1.3	ug/m3	2.0	0.33	EPA-TO-15	ND	J	1
Ethylbenzene	0.48	ug/m3	5.0	0.32	EPA-TO-15	ND	J	1
Ethylbenzene	0.49	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	0.49	ug/m3	2.0	0.34	EPA-TO-15	ND	J	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	6.3	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.5	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305062-03		Client Sample Name: IA-34-2, 3/10/2023 10:17:00AM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		1
Styrene	0.47	ug/m3	5.0	0.24	EPA-TO-15	ND	J	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	2.1	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	2.4	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	0.84	ug/m3	5.0	0.40	EPA-TO-15	ND	J	1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.6	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.7	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.61	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
o-Xylene	0.66	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	2.2	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	2.4	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	95.8	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	96.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	119	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:26
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305062-03		Client Sample Name: IA-34-2, 3/10/2023 10:17:00AM, Cameron Jones							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/22/23 13:21	03/23/23 12:18	BEP	MS-A2	1	B162459	EPA TO-15	
2	EPA-TO-15-SIM	03/15/23 13:22	03/16/23 05:43	BEP	MS-A1	20	B161965	EPA TO-15	
3	EPA-TO-15-SIM	03/15/23 13:22	03/16/23 04:03	BEP	MS-A1	1	B161965	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2305062-03	Client Sample Name: IA-34-2, 3/10/2023 10:17:00AM, Cameron Jones
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	6.3	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/23/23 08:59	03/23/23 16:11	RMK	GC-A1	1	B162517	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305062-04		Client Sample Name: IA-34-2-D, 3/10/2023 1:17:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	49	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	1
Acetone	55	ug/m3	5.0	0.43	EPA-TO-15	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		2
Benzene	0.93	ug/m3	2.0	0.21	EPA-TO-15	ND	J	2
Benzene	0.95	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		2
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		2
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		2
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		2
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		2
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		2
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		2
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		2
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		2
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.6	ug/m3	1.0	0.10	EPA-TO-15-SIM	ND	A01	1
Dichlorodifluoromethane	1.9	ug/m3	5.0	0.45	EPA-TO-15	ND	J	2

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Roux Associates, Inc -Long Beach
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Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305062-04		Client Sample Name: IA-34-2-D, 3/10/2023 1:17:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		2
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		2
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		2
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		2
1,1-Difluoroethane	1.3	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Ethanol	110	ug/m3	2.0	0.42	EPA-TO-15	ND		2
Ethyl acetate	1.4	ug/m3	2.0	0.33	EPA-TO-15	ND	J	2
Ethylbenzene	0.48	ug/m3	5.0	0.32	EPA-TO-15	ND	J	2
Ethylbenzene	0.54	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		2
n-Heptane	0.53	ug/m3	2.0	0.34	EPA-TO-15	ND	J	2
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		2
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		2
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		2
Isopropyl alcohol	6.6	ug/m3	2.0	0.32	EPA-TO-15	ND		2
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		2
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.4	ug/m3	2.0	0.19	EPA-TO-15	ND	J	2
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		2
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		2

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Reported: 04/03/2023 13:26
 Project: City Terrace
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 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305062-04		Client Sample Name: IA-34-2-D, 3/10/2023 1:17:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND		2
Styrene	0.47	ug/m3	5.0	0.24	EPA-TO-15	ND	J	2
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		2
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		2
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
Toluene	1.8	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	J,A01	1
Toluene	2.1	ug/m3	2.0	0.27	EPA-TO-15	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		2
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		2
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		2
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	2
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	0.98	ug/m3	5.0	0.40	EPA-TO-15	ND	J	2
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		2
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.6	ug/m3	5.0	0.61	EPA-TO-15	ND	J	2
p- & m-Xylenes	1.9	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.61	ug/m3	5.0	0.30	EPA-TO-15	ND	J	2
o-Xylene	0.72	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	2.2	ug/m3	10	0.91	EPA-TO-15	ND	J	2
Total Xylenes	2.6	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	93.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	95.8	%	70 - 130 (LCL - UCL)		EPA-TO-15			2
4-Bromofluorobenzene (Surrogate)	114	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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BCL Sample ID: 2305062-04	Client Sample Name: IA-34-2-D, 3/10/2023 1:17:00PM, Cameron Jones								
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15-SIM	03/15/23 13:22	03/16/23 06:14	BEP	MS-A1	20	B161965	EPA TO-15	
2	EPA-TO-15	03/22/23 13:21	03/23/23 13:03	BEP	MS-A2	1	B162459	EPA TO-15	
3	EPA-TO-15-SIM	03/15/23 13:22	03/16/23 04:40	BEP	MS-A1	1	B161965	EPA TO-15	

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2305062-04	Client Sample Name: IA-34-2-D, 3/10/2023 1:17:00PM, Cameron Jones
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.3	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/23/23 08:59	03/23/23 17:12	RMK	GC-A1	1	B162517	No Prep

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305062-05		Client Sample Name: SV-34-1, 3/10/2023 2:44:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	48	ug/m3	7.8	0.67	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.1	0.44	EPA-TO-15	ND	A01	1
Benzene	3.6	ug/m3	3.1	0.33	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.41	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	7.8	0.70	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.1	0.73	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.1	0.34	EPA-TO-15	ND	A01	1
Carbon disulfide	2.9	ug/m3	3.1	0.30	EPA-TO-15	ND	J,A01	1
Carbon tetrachloride	ND	ug/m3	7.8	0.70	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	7.8	0.62	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.1	0.83	EPA-TO-15	ND	A01	1
Chloroform	3.1	ug/m3	7.8	0.84	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.1	0.33	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	3.1	0.59	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	7.8	0.67	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	2.2	ug/m3	7.8	0.90	EPA-TO-15	ND	J,A01	1
1,2-Dichlorobenzene	ND	ug/m3	7.8	0.78	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	7.8	0.48	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	7.8	0.78	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.5	ug/m3	7.8	0.70	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	7.8	0.36	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	7.8	0.41	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	7.8	0.48	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.1	0.50	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	7.8	0.50	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	7.8	0.47	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	7.8	0.62	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	7.8	1.4	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	7.8	3.1	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.1	0.51	EPA-TO-15	ND	A01	1

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 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305062-05		Client Sample Name: SV-34-1, 3/10/2023 2:44:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	19	ug/m3	3.1	0.66	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	3.1	0.51	EPA-TO-15	ND	A01	1
Ethylbenzene	3.9	ug/m3	7.8	0.50	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	7.8	0.47	EPA-TO-15	ND	A01	1
n-Heptane	3.1	ug/m3	3.1	0.53	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.3	EPA-TO-15	ND	A01	1
Hexane	1.7	ug/m3	7.8	0.31	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	7.8	0.45	EPA-TO-15	ND	A01	1
Isopropyl alcohol	25	ug/m3	3.1	0.50	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.62	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	2.8	ug/m3	3.1	0.30	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	0.70	ug/m3	7.8	0.41	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.1	0.44	EPA-TO-15	ND	A01	1
Propylene	3.1	ug/m3	3.1	0.39	EPA-TO-15	ND	A01	1
Styrene	0.73	ug/m3	7.8	0.37	EPA-TO-15	ND	J,A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	7.8	0.73	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.1	0.78	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
Toluene	14	ug/m3	3.1	0.42	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	7.8	0.61	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	7.8	0.95	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.1	0.84	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.2	ug/m3	7.8	0.73	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	7.8	0.86	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.3	ug/m3	7.8	0.62	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	7.8	0.62	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.1	0.51	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.1	0.61	EPA-TO-15	ND	A01	1
p- & m-Xylenes	10	ug/m3	7.8	0.95	EPA-TO-15	ND	A01	1
o-Xylene	3.6	ug/m3	7.8	0.47	EPA-TO-15	ND	J,A01	1
Total Xylenes	14	ug/m3	16	1.4	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	96.9	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305062-05	Client Sample Name: SV-34-1, 3/10/2023 2:44:00PM, Cameron Jones
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	03/14/23 13:48	03/15/23 03:05	BEP	MS-A1	1.560	B161871 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305062-06		Client Sample Name: SV-34-2, 3/10/2023 2:37:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	37	ug/m3	8.0	0.69	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Benzene	0.82	ug/m3	3.2	0.34	EPA-TO-15	ND	J,A01	1
Benzyl chloride	ND	ug/m3	16	0.42	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.2	0.76	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.2	0.35	EPA-TO-15	ND	A01	1
Carbon disulfide	0.90	ug/m3	3.2	0.31	EPA-TO-15	ND	J,A01	1
Carbon tetrachloride	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.2	0.85	EPA-TO-15	ND	A01	1
Chloroform	1.0	ug/m3	8.0	0.87	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	3.2	0.61	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	8.0	0.69	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.0	0.93	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.0	0.50	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.6	ug/m3	8.0	0.72	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.0	0.37	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.0	0.42	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.0	0.50	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.0	0.52	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.0	0.48	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.0	1.5	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.0	3.2	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305062-06		Client Sample Name: SV-34-2, 3/10/2023 2:37:00PM, Cameron Jones						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	24	ug/m3	3.2	0.68	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1
Ethylbenzene	1.8	ug/m3	8.0	0.52	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	8.0	0.48	EPA-TO-15	ND	A01	1
n-Heptane	0.86	ug/m3	3.2	0.55	EPA-TO-15	ND	J,A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	1
Hexane	0.74	ug/m3	8.0	0.32	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	8.0	0.47	EPA-TO-15	ND	A01	1
Isopropyl alcohol	19	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.64	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	3.1	ug/m3	3.2	0.31	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	ND	ug/m3	8.0	0.42	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.2	0.40	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	8.0	0.39	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.0	0.76	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.2	0.80	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Toluene	4.9	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.0	0.63	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.0	0.98	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.2	0.87	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.2	ug/m3	8.0	0.76	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.0	0.89	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.4	ug/m3	8.0	0.64	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.2	0.63	EPA-TO-15	ND	A01	1
p- & m-Xylenes	6.4	ug/m3	8.0	0.98	EPA-TO-15	ND	J,A01	1
o-Xylene	2.1	ug/m3	8.0	0.48	EPA-TO-15	ND	J,A01	1
Total Xylenes	8.5	ug/m3	16	1.5	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	96.8	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:26
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2305062-06	Client Sample Name: SV-34-2, 3/10/2023 2:37:00PM, Cameron Jones
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	03/14/23 13:48	03/15/23 03:41	BEP	MS-A1	1.610	B161871 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161871							
Acetone	B161871-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B161871-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B161871-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B161871-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B161871-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B161871-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B161871-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B161871-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B161871-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B161871-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B161871-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B161871-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B161871-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B161871-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B161871-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B161871-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B161871-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B161871-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B161871-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B161871-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B161871-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B161871-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B161871-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B161871-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B161871-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B161871-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B161871-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B161871-BLK1	ND	ug/m3	2.0	0.42		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161871							
Ethyl acetate	B161871-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B161871-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B161871-BLK1	ND	ug/m3	10	1.5		1
Hexane	B161871-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B161871-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B161871-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B161871-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B161871-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B161871-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B161871-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B161871-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B161871-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B161871-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B161871-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B161871-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B161871-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B161871-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B161871-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B161871-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B161871-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161871-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B161871-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B161871-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B161871-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B161871-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B161871-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B161871-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B161871-BLK1	90.5	%	70 - 130 (LCL - UCL)			1
QC Batch ID: B161965							

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Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161965							
Acetone	B161965-BLK1	ND	ug/m3	1.0	0.0075		2
Benzene	B161965-BLK1	ND	ug/m3	0.050	0.0032		2
Benzyl chloride	B161965-BLK1	ND	ug/m3	0.50	0.0052		2
Carbon tetrachloride	B161965-BLK1	ND	ug/m3	0.20	0.0063		2
Chlorobenzene	B161965-BLK1	ND	ug/m3	0.10	0.0079		2
Chloroform	B161965-BLK1	ND	ug/m3	0.050	0.0058		2
1,2-Dibromoethane	B161965-BLK1	ND	ug/m3	0.20	0.014		2
1,2-Dichlorobenzene	B161965-BLK1	ND	ug/m3	0.20	0.011		2
1,3-Dichlorobenzene	B161965-BLK1	ND	ug/m3	0.20	0.013		2
1,4-Dichlorobenzene	B161965-BLK1	ND	ug/m3	0.20	0.016		2
Dichlorodifluoromethane	B161965-BLK1	ND	ug/m3	0.050	0.0052		2
1,1-Dichloroethane	B161965-BLK1	ND	ug/m3	0.050	0.0041		2
1,2-Dichloroethane	B161965-BLK1	ND	ug/m3	0.10	0.0046		2
1,1-Dichloroethene	B161965-BLK1	ND	ug/m3	0.050	0.0078		2
cis-1,2-Dichloroethene	B161965-BLK1	ND	ug/m3	0.050	0.0044		2
trans-1,2-Dichloroethene	B161965-BLK1	ND	ug/m3	0.050	0.0075		2
trans-1,3-Dichloropropene	B161965-BLK1	ND	ug/m3	0.050	0.013		2
1,1-Difluoroethane	B161965-BLK1	ND	ug/m3	5.0	0.0027		2
Ethylbenzene	B161965-BLK1	ND	ug/m3	0.050	0.017		2
Methylene chloride	B161965-BLK1	ND	ug/m3	0.20	0.0077		2
Tetrachloroethene	B161965-BLK1	ND	ug/m3	0.10	0.011		2
Toluene	B161965-BLK1	ND	ug/m3	0.10	0.0062		2
1,1,1-Trichloroethane	B161965-BLK1	ND	ug/m3	0.10	0.0055		2
1,1,2-Trichloroethane	B161965-BLK1	ND	ug/m3	0.10	0.0055		2
Trichloroethene	B161965-BLK1	ND	ug/m3	0.10	0.0095		2
Trichlorofluoromethane	B161965-BLK1	ND	ug/m3	0.050	0.0057		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B161965-BLK1	ND	ug/m3	0.10	0.0078		2
Vinyl chloride	B161965-BLK1	ND	ug/m3	0.020	0.0046		2
p- & m-Xylenes	B161965-BLK1	ND	ug/m3	0.050	0.0082		2
o-Xylene	B161965-BLK1	ND	ug/m3	0.050	0.0044		2
Total Xylenes	B161965-BLK1	ND	ug/m3	0.10	0.013		2
4-Bromofluorobenzene (Surrogate)	B161965-BLK1	90.3	%	50 - 150 (LCL - UCL)			2
QC Batch ID: B162459							

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Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162459							
Acetone	B162459-BLK1	ND	ug/m3	5.0	0.43		3
Acrylonitrile	B162459-BLK1	ND	ug/m3	2.0	0.27		3
Allyl chloride	B162459-BLK1	ND	ug/m3	2.0	0.28		3
Benzene	B162459-BLK1	ND	ug/m3	2.0	0.21		3
Benzyl chloride	B162459-BLK1	ND	ug/m3	10	0.26		3
Bromodichloromethane	B162459-BLK1	ND	ug/m3	5.0	0.45		3
Bromoform	B162459-BLK1	ND	ug/m3	10	0.86		3
Bromomethane	B162459-BLK1	ND	ug/m3	2.0	0.47		3
1,3-Butadiene	B162459-BLK1	ND	ug/m3	2.0	0.22		3
Carbon disulfide	B162459-BLK1	ND	ug/m3	2.0	0.19		3
Carbon tetrachloride	B162459-BLK1	ND	ug/m3	5.0	0.45		3
Chlorobenzene	B162459-BLK1	ND	ug/m3	5.0	0.40		3
Chloroethane	B162459-BLK1	ND	ug/m3	2.0	0.53		3
Chloroform	B162459-BLK1	ND	ug/m3	5.0	0.54		3
Chloromethane	B162459-BLK1	ND	ug/m3	2.0	0.21		3
Cyclohexane	B162459-BLK1	ND	ug/m3	2.0	0.38		3
Dibromochloromethane	B162459-BLK1	ND	ug/m3	5.0	0.43		3
1,2-Dibromoethane	B162459-BLK1	ND	ug/m3	5.0	0.58		3
1,2-Dichlorobenzene	B162459-BLK1	ND	ug/m3	5.0	0.50		3
1,3-Dichlorobenzene	B162459-BLK1	ND	ug/m3	5.0	0.31		3
1,4-Dichlorobenzene	B162459-BLK1	ND	ug/m3	5.0	0.50		3
Dichlorodifluoromethane	B162459-BLK1	ND	ug/m3	5.0	0.45		3
1,1-Dichloroethane	B162459-BLK1	ND	ug/m3	5.0	0.23		3
1,2-Dichloroethane	B162459-BLK1	ND	ug/m3	5.0	0.26		3
1,1-Dichloroethene	B162459-BLK1	ND	ug/m3	5.0	0.31		3
cis-1,2-Dichloroethene	B162459-BLK1	ND	ug/m3	2.0	0.32		3
trans-1,2-Dichloroethene	B162459-BLK1	ND	ug/m3	2.0	0.27		3
1,2-Dichloropropane	B162459-BLK1	ND	ug/m3	5.0	0.32		3
cis-1,3-Dichloropropene	B162459-BLK1	ND	ug/m3	5.0	0.30		3
trans-1,3-Dichloropropene	B162459-BLK1	ND	ug/m3	5.0	0.40		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162459-BLK1	ND	ug/m3	5.0	0.91		3
1,1-Difluoroethane	B162459-BLK1	ND	ug/m3	5.0	2.0		3
1,4-Dioxane	B162459-BLK1	ND	ug/m3	2.0	0.33		3
Ethanol	B162459-BLK1	ND	ug/m3	2.0	0.42		3

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Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162459							
Ethyl acetate	B162459-BLK1	ND	ug/m3	2.0	0.33		3
Ethylbenzene	B162459-BLK1	ND	ug/m3	5.0	0.32		3
1-Ethyl-4-methylbenzene	B162459-BLK1	ND	ug/m3	5.0	0.30		3
n-Heptane	B162459-BLK1	ND	ug/m3	2.0	0.34		3
Hexachlorobutadiene	B162459-BLK1	ND	ug/m3	10	1.5		3
Hexane	B162459-BLK1	ND	ug/m3	5.0	0.20		3
2-Hexanone	B162459-BLK1	ND	ug/m3	5.0	0.29		3
Isopropyl alcohol	B162459-BLK1	ND	ug/m3	2.0	0.32		3
Methylene chloride	B162459-BLK1	ND	ug/m3	10	0.40		3
Methyl ethyl ketone	B162459-BLK1	ND	ug/m3	2.0	0.19		3
Methyl isobutyl ketone	B162459-BLK1	ND	ug/m3	5.0	0.26		3
Methyl t-butyl ether	B162459-BLK1	ND	ug/m3	2.0	0.28		3
Propylene	B162459-BLK1	ND	ug/m3	2.0	0.25		3
Styrene	B162459-BLK1	ND	ug/m3	5.0	0.24		3
1,1,2,2-Tetrachloroethane	B162459-BLK1	ND	ug/m3	5.0	0.47		3
Tetrachloroethene	B162459-BLK1	ND	ug/m3	2.0	0.50		3
Tetrahydrofuran	B162459-BLK1	ND	ug/m3	2.0	0.27		3
Toluene	B162459-BLK1	ND	ug/m3	2.0	0.27		3
1,2,4-Trichlorobenzene	B162459-BLK1	ND	ug/m3	10	0.82		3
1,1,1-Trichloroethane	B162459-BLK1	ND	ug/m3	5.0	0.39		3
1,1,2-Trichloroethane	B162459-BLK1	ND	ug/m3	5.0	0.61		3
Trichloroethene	B162459-BLK1	ND	ug/m3	2.0	0.54		3
Trichlorofluoromethane	B162459-BLK1	ND	ug/m3	5.0	0.47		3
1,1,2-Trichloro-1,2,2-trifluoroethane	B162459-BLK1	ND	ug/m3	5.0	0.55		3
1,2,4-Trimethylbenzene	B162459-BLK1	ND	ug/m3	5.0	0.40		3
1,3,5-Trimethylbenzene	B162459-BLK1	ND	ug/m3	5.0	0.40		3
Vinyl acetate	B162459-BLK1	ND	ug/m3	2.0	0.33		3
Vinyl chloride	B162459-BLK1	ND	ug/m3	2.0	0.39		3
p- & m-Xylenes	B162459-BLK1	ND	ug/m3	5.0	0.61		3
o-Xylene	B162459-BLK1	ND	ug/m3	5.0	0.30		3
Total Xylenes	B162459-BLK1	ND	ug/m3	10	0.91		3
4-Bromofluorobenzene (Surrogate)	B162459-BLK1	92.8	%	70 - 130 (LCL - UCL)			3

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Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161871-BLK1	PB	EPA-TO-15	03/13/23	03/14/23 17:56	BEP	MS-A1	1
2	B161965-BLK1	PB	EPA-TO-15-SIM	03/15/23	03/15/23 22:14	BEP	MS-A1	1
3	B162459-BLK1	PB	EPA-TO-15	03/22/23	03/22/23 16:52	BEP	MS-A2	1

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 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161871											
Benzene	B161871-BS1	LCS	14.856	15.974	ug/m3	93.0		70 - 130			1
	B161871-BSD1	LCSD	15.047	15.974	ug/m3	94.2	1.3	70 - 130	30		2
Chloroform	B161871-BS1	LCS	22.899	24.413	ug/m3	93.8		70 - 130			1
	B161871-BSD1	LCSD	22.850	24.413	ug/m3	93.6	0.2	70 - 130	30		2
Ethylbenzene	B161871-BS1	LCS	20.625	21.711	ug/m3	95.0		70 - 130			1
	B161871-BSD1	LCSD	20.538	21.711	ug/m3	94.6	0.4	70 - 130	30		2
Tetrachloroethene	B161871-BS1	LCS	31.132	33.913	ug/m3	91.8		70 - 130			1
	B161871-BSD1	LCSD	30.589	33.913	ug/m3	90.2	1.8	70 - 130	30		2
Toluene	B161871-BS1	LCS	18.616	18.842	ug/m3	98.8		70 - 130			1
	B161871-BSD1	LCSD	18.352	18.842	ug/m3	97.4	1.4	70 - 130	30		2
Trichloroethene	B161871-BS1	LCS	24.665	26.869	ug/m3	91.8		70 - 130			1
	B161871-BSD1	LCSD	24.934	26.869	ug/m3	92.8	1.1	70 - 130	30		2
Trichlorofluoromethane	B161871-BS1	LCS	26.013	28.092	ug/m3	92.6		70 - 130			1
	B161871-BSD1	LCSD	26.575	28.092	ug/m3	94.6	2.1	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B161871-BS1	LCS	34.563	38.318	ug/m3	90.2		70 - 130			1
	B161871-BSD1	LCSD	34.946	38.318	ug/m3	91.2	1.1	70 - 130	30		2
p- & m-Xylenes	B161871-BS1	LCS	41.815	43.421	ug/m3	96.3		70 - 130			1
	B161871-BSD1	LCSD	41.945	43.421	ug/m3	96.6	0.3	70 - 130	30		2
o-Xylene	B161871-BS1	LCS	21.016	21.711	ug/m3	96.8		70 - 130			1
	B161871-BSD1	LCSD	21.146	21.711	ug/m3	97.4	0.6	70 - 130	30		2
Total Xylenes	B161871-BS1	LCS	62.831	65.132	ug/m3	96.5		70 - 130			1
	B161871-BSD1	LCSD	63.091	65.132	ug/m3	96.9	0.4	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161871-BS1	LCS	71.7	71.6	ug/m3	100		70 - 130			1
	B161871-BSD1	LCSD	71.1	71.6	ug/m3	99.4	0.8	70 - 130			2
QC Batch ID: B161965											
Benzene	B161965-BS1	LCS	0.28459	0.31948	ug/m3	89.1		70 - 130			3
	B161965-BSD1	LCSD	0.28874	0.31948	ug/m3	90.4	1.4	70 - 130	30		4
Benzyl chloride	B161965-BS1	LCS	0.44524	0.51772	ug/m3	86.0		70 - 130		J	3
	B161965-BSD1	LCSD	0.51260	0.51772	ug/m3	99.0	14.1	70 - 130	30		4
Carbon tetrachloride	B161965-BS1	LCS	0.57943	0.62913	ug/m3	92.1		70 - 130			3
	B161965-BSD1	LCSD	0.59591	0.62913	ug/m3	94.7	2.8	70 - 130	30		4
Chlorobenzene	B161965-BS1	LCS	0.52057	0.46036	ug/m3	113		70 - 130			3
	B161965-BSD1	LCSD	0.43366	0.46036	ug/m3	94.2	18.2	70 - 130	30		4
Chloroform	B161965-BS1	LCS	0.45744	0.48825	ug/m3	93.7		70 - 130			3
	B161965-BSD1	LCSD	0.47199	0.48825	ug/m3	96.7	3.1	70 - 130	30		4
1,2-Dibromoethane	B161965-BS1	LCS	0.72816	0.76835	ug/m3	94.8		70 - 130			3
	B161965-BSD1	LCSD	0.73854	0.76835	ug/m3	96.1	1.4	70 - 130	30		4

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161965											
1,2-Dichlorobenzene	B161965-BS1	LCS	0.59534	0.60124	ug/m3	99.0		70 - 130			3
	B161965-BSD1	LCSD	0.61603	0.60124	ug/m3	102	3.4	70 - 130	30		4
1,3-Dichlorobenzene	B161965-BS1	LCS	0.54616	0.60124	ug/m3	90.8		70 - 130			3
	B161965-BSD1	LCSD	0.59113	0.60124	ug/m3	98.3	7.9	70 - 130	30		4
1,4-Dichlorobenzene	B161965-BS1	LCS	0.56606	0.60124	ug/m3	94.1		70 - 130			3
	B161965-BSD1	LCSD	0.61849	0.60124	ug/m3	103	8.9	70 - 130	30		4
1,1-Dichloroethane	B161965-BS1	LCS	0.37479	0.40474	ug/m3	92.6		70 - 130			3
	B161965-BSD1	LCSD	0.37762	0.40474	ug/m3	93.3	0.8	70 - 130	30		4
1,2-Dichloroethane	B161965-BS1	LCS	0.35629	0.40474	ug/m3	88.0		70 - 130			3
	B161965-BSD1	LCSD	0.36406	0.40474	ug/m3	89.9	2.2	70 - 130	30		4
1,1-Dichloroethene	B161965-BS1	LCS	0.36589	0.39649	ug/m3	92.3		70 - 130			3
	B161965-BSD1	LCSD	0.36684	0.39649	ug/m3	92.5	0.3	70 - 130	30		4
cis-1,2-Dichloroethene	B161965-BS1	LCS	0.36299	0.39649	ug/m3	91.6		70 - 130			3
	B161965-BSD1	LCSD	0.37580	0.39649	ug/m3	94.8	3.5	70 - 130	30		4
Methylene chloride	B161965-BS1	LCS	0.34776	0.34737	ug/m3	100		70 - 130			3
	B161965-BSD1	LCSD	0.34859	0.34737	ug/m3	100	0.2	70 - 130	30		4
Tetrachloroethene	B161965-BS1	LCS	0.63742	0.67825	ug/m3	94.0		70 - 130			3
	B161965-BSD1	LCSD	0.65255	0.67825	ug/m3	96.2		70 - 130	30		4
Toluene	B161965-BS1	LCS	0.34572	0.37684	ug/m3	91.7		70 - 130			3
	B161965-BSD1	LCSD	0.35182	0.37684	ug/m3	93.4	1.8	70 - 130	30		4
1,1,1-Trichloroethane	B161965-BS1	LCS	0.51103	0.54562	ug/m3	93.7		70 - 130			3
	B161965-BSD1	LCSD	0.51736	0.54562	ug/m3	94.8	1.2	70 - 130	30		4
1,1,2-Trichloroethane	B161965-BS1	LCS	0.51436	0.54562	ug/m3	94.3		70 - 130			3
	B161965-BSD1	LCSD	0.51714	0.54562	ug/m3	94.8	0.5	70 - 130	30		4
Trichloroethene	B161965-BS1	LCS	0.50454	0.53737	ug/m3	93.9		70 - 130			3
	B161965-BSD1	LCSD	0.50459	0.53737	ug/m3	93.9	0.0	70 - 130	30		4
Vinyl chloride	B161965-BS1	LCS	0.24958	0.25562	ug/m3	97.6		70 - 130			3
	B161965-BSD1	LCSD	0.24230	0.25562	ug/m3	94.8	3.0	70 - 130	30		4
p- & m-Xylenes	B161965-BS1	LCS	0.79978	0.86843	ug/m3	92.1		70 - 130			3
	B161965-BSD1	LCSD	0.84150	0.86843	ug/m3	96.9	5.1	70 - 130	30		4
o-Xylene	B161965-BS1	LCS	0.40430	0.43421	ug/m3	93.1		70 - 130			3
	B161965-BSD1	LCSD	0.41472	0.43421	ug/m3	95.5	2.5	70 - 130	30		4
Total Xylenes	B161965-BS1	LCS	1.2041	1.3026	ug/m3	92.4		70 - 130			3
	B161965-BSD1	LCSD	1.2562	1.3026	ug/m3	96.4	4.2	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B161965-BS1	LCS	3.58	3.58	ug/m3	100		50 - 150			3
	B161965-BSD1	LCSD	3.57	3.58	ug/m3	99.9	0.2	50 - 150			4

QC Batch ID: B162459

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B162459											
Benzene	B162459-BS1	LCS	16.102	15.974	ug/m3	101		70 - 130			5
	B162459-BSD1	LCSD	16.261	15.974	ug/m3	102	1.0	70 - 130	30		6
Chloroform	B162459-BS1	LCS	23.339	24.413	ug/m3	95.6		70 - 130			5
	B162459-BSD1	LCSD	23.387	24.413	ug/m3	95.8	0.2	70 - 130	30		6
Ethylbenzene	B162459-BS1	LCS	23.708	21.711	ug/m3	109		70 - 130			5
	B162459-BSD1	LCSD	23.751	21.711	ug/m3	109	0.2	70 - 130	30		6
Tetrachloroethene	B162459-BS1	LCS	34.455	33.913	ug/m3	102		70 - 130			5
	B162459-BSD1	LCSD	34.320	33.913	ug/m3	101	0.4	70 - 130	30		6
Toluene	B162459-BS1	LCS	19.822	18.842	ug/m3	105		70 - 130			5
	B162459-BSD1	LCSD	19.709	18.842	ug/m3	105	0.6	70 - 130	30		6
Trichloroethene	B162459-BS1	LCS	27.406	26.869	ug/m3	102		70 - 130			5
	B162459-BSD1	LCSD	27.137	26.869	ug/m3	101	1.0	70 - 130	30		6
Trichlorofluoromethane	B162459-BS1	LCS	26.406	28.092	ug/m3	94.0		70 - 130			5
	B162459-BSD1	LCSD	26.799	28.092	ug/m3	95.4	1.5	70 - 130	30		6
1,1,2-Trichloro-1,2,2-trifluoroethane	B162459-BS1	LCS	37.705	38.318	ug/m3	98.4		70 - 130			5
	B162459-BSD1	LCSD	38.165	38.318	ug/m3	99.6	1.2	70 - 130	30		6
p- & m-Xylenes	B162459-BS1	LCS	47.720	43.421	ug/m3	110		70 - 130			5
	B162459-BSD1	LCSD	48.284	43.421	ug/m3	111	1.2	70 - 130	30		6
o-Xylene	B162459-BS1	LCS	23.665	21.711	ug/m3	109		70 - 130			5
	B162459-BSD1	LCSD	23.838	21.711	ug/m3	110	0.7	70 - 130	30		6
Total Xylenes	B162459-BS1	LCS	71.385	65.132	ug/m3	110		70 - 130			5
	B162459-BSD1	LCSD	72.123	65.132	ug/m3	111	1.0	70 - 130	30		6
4-Bromofluorobenzene (Surrogate)	B162459-BS1	LCS	73.0	71.6	ug/m3	102		70 - 130			5
	B162459-BSD1	LCSD	72.1	71.6	ug/m3	101	1.3	70 - 130			6

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B161871-BS1	LCS	EPA-TO-15	03/13/23	03/14/23	16:56	BEP	MS-A1	1
2	B161871-BSD1	LCSD	EPA-TO-15	03/13/23	03/14/23	17:28	BEP	MS-A1	1
3	B161965-BS1	LCS	EPA-TO-15-SIM	03/15/23	03/15/23	21:15	BEP	MS-A1	1
4	B161965-BSD1	LCSD	EPA-TO-15-SIM	03/15/23	03/15/23	21:46	BEP	MS-A1	1
5	B162459-BS1	LCS	EPA-TO-15	03/22/23	03/22/23	15:35	BEP	MS-A2	1
6	B162459-BSD1	LCSD	EPA-TO-15	03/22/23	03/22/23	16:15	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B162517

Methane (CH4)	B162517-BLK1	ND	ppmv	2.0	1.8		1
---------------	--------------	----	------	-----	-----	--	---

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162517-BLK1	PB	ASTM-D1946	03/23/23	03/23/23 12:44	RMK	GC-A1	1

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Reported: 04/03/2023 13:26
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162517											
Methane (CH4)	B162517-BS1	LCS	18877	18000	ppmv	105		70 - 130			1
	B162517-BSD1	LCSD	18876	18000	ppmv	105	0.0	70 - 130	30		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162517-BS1	LCS	ASTM-D1946	03/23/23	03/23/23	12:03	RMK	GC-A1	1
2	B162517-BSD1	LCSD	ASTM-D1946	03/23/23	03/23/23	12:24	RMK	GC-A1	1

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Reported: 04/03/2023 13:26
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

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



Date of Report: 04/03/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304477
Invoice ID: B471456, B471957, B472849

Enclosed are the results of analyses for samples received by the laboratory on 3/4/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001408467

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / Analytical I

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed. **2304477**

Section A **23-04477**

Section B Required Client Information
 Company: Rous
 Address: 5150 E. Pacific Coast Hwy, Ste. 450
 Long Beach, CA 90804
 Email To: amc@rouse.com
 Phone: 562-446-8924 Fax:
 Requested Bus. Date/TAT: Standard

Section C Invoice Information

Attention: Rous Accounts Payable (rouseap@rouse.com)
 Company Name: Rous
 Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
 PACE Order Reference: 00132481 & 00132633
 PACE Project Manager/Sales Rep: Brianna Schutte / Dawn Gonor
 PACE Profile #

Section D Required Client Information
 AIR SAMPLE ID
 Sample IDs MUST BE UNIQUE
 1A-35-1
 1A-35-2
 AA-35-1

ITEM #	COLLECTED		Summa Can Number	Flow Control Number	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	DATE	TIME									
1	3/2/15	16:35	37513	05272	James Fox	3/23	16:20	James Fox	3/23	16:20	Temp in °C
2	3/2/15	16:30	0171	10807	James Fox	3/23	16:25	James Fox	3/23	16:20	Sealed Cooler
3	3/2/15	16:15	0576	06013	James Fox	3/23	16:25	James Fox	3/23	16:20	Custody

Section D Required Client Information
 MEDIA CODE
 1A-35-1
 1A-35-2
 AA-35-1

Method	Report Level	II	III	IV	Other
PM10	II				
3C - Fixed Gas (%)	II				
TO-14 (Petroleum)	II				
TO-11 (PM10)	II				
TO-15	II				
TO-15 Short List	II				
TO-15 SRM	II				

Comments:
 CHK BY: JOL
 DISTRIBUTION: JOL
 DATE ENTERED INTO DB: 3.23.15

SAMPLER NAME AND SIGNATURE
 JAMES FOX
 DATE ENTERED INTO DB: 3.23.15

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page	1	Of	1
Submission #: 23-04477							
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S			
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____							
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____							
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUMMA</u> Thermometer ID: _____ Temperature: (A) <u>Room</u> °C / (C) <u>Temp.</u> °C		Date/Time <u>3/4/23</u> Analyst Init <u>JCD</u> <u>1120</u>			

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PlA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A	A							

Comments:
 Sample Numbering Completed By: JCD Date/Time: 3/4/23 1245
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304477-01	COC Number:	---	Receive Date:	03/04/2023 11:20
	Project Number:	---	Sampling Date:	03/03/2023 15:52
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-35-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2304477-02	COC Number:	---	Receive Date:	03/04/2023 11:20
	Project Number:	---	Sampling Date:	03/03/2023 15:53
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-35-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2304477-03	COC Number:	---	Receive Date:	03/04/2023 11:20
	Project Number:	---	Sampling Date:	03/03/2023 16:15
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AA-35-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304477-01		Client Sample Name: IA-35-1, 3/3/2023 3:52:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	17	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	7.6	ug/m3	10	0.075	EPA-TO-15-SIM	ND	J,A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.89	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.87	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	V11	1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.2	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304477-01		Client Sample Name: IA-35-1, 3/3/2023 3:52:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		1
1,1-Difluoroethane	1.0	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	38	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	2.5	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.45	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	5.3	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.3	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304477-01		Client Sample Name: IA-35-1, 3/3/2023 3:52:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	1.9	ug/m3	2.0	0.27	EPA-TO-15	ND	J	1
Toluene	1.9	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.1	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.4	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
o-Xylene	0.52	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	1.1	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	1.9	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	99.7	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	104	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	103	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304477-01		Client Sample Name: IA-35-1, 3/3/2023 3:52:00PM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/20/23 08:01	03/20/23 19:16	BEP	MS-A2	1	B162268	EPA TO-15	
2	EPA-TO-15-SIM	03/07/23 13:07	03/08/23 22:11	BEP	MS-A2	10	B161383	EPA TO-15	
3	EPA-TO-15-SIM	03/07/23 13:07	03/08/23 20:08	BEP	MS-A2	1	B161383	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304477-01	Client Sample Name: IA-35-1, 3/3/2023 3:52:00PM, Client
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	140	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	ASTM-D1946	03/21/23 08:25	03/21/23	21:47	RMK	GC-A1	1	B162383	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304477-02		Client Sample Name: IA-35-2, 3/3/2023 3:53:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	17	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	8.1	ug/m3	10	0.075	EPA-TO-15-SIM	ND	J,A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.86	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.88	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	V11	1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.3	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.3	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304477-02		Client Sample Name: IA-35-2, 3/3/2023 3:53:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	2.4	ug/m3	5.0	2.0	EPA-TO-15	ND	J	1
1,1-Difluoroethane	1.7	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	56	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	1.1	ug/m3	2.0	0.33	EPA-TO-15	ND	J	1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.50	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	0.81	ug/m3	5.0	0.20	EPA-TO-15	ND	J	1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	8.9	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.1	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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 Project Number: 2855
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Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304477-02		Client Sample Name: IA-35-2, 3/3/2023 3:53:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	2.0	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	2.1	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	0.082	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND	J	3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.4	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.7	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.48	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
o-Xylene	0.60	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	1.9	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	2.3	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	98.5	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	98.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	106	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304477-02		Client Sample Name: IA-35-2, 3/3/2023 3:53:00PM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/20/23 08:01	03/20/23 19:59	BEP	MS-A2	1	B162268	EPA TO-15	
2	EPA-TO-15-SIM	03/07/23 13:07	03/08/23 22:48	BEP	MS-A2	10	B161383	EPA TO-15	
3	EPA-TO-15-SIM	03/07/23 13:07	03/08/23 20:51	BEP	MS-A2	1	B161383	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304477-02	Client Sample Name: IA-35-2, 3/3/2023 3:53:00PM, Client							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.9	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/21/23 08:25	03/21/23 22:07	RMK	GC-A1	1	B162383	No Prep

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304477-03		Client Sample Name: AA-35-1, 3/3/2023 4:15:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	4.5	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND		1
Acetone	10	ug/m3	5.0	0.43	EPA-TO-15	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		2
Benzene	0.90	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzene	0.89	ug/m3	2.0	0.21	EPA-TO-15	ND	J	2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		2
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		2
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	V11	2
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		2
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		2
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		2
Chloromethane	1.1	ug/m3	2.0	0.21	EPA-TO-15	ND	J	2
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		2
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		2
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304477-03		Client Sample Name: AA-35-1, 3/3/2023 4:15:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		2
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		2
1,1-Difluoroethane	0.72	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Ethanol	7.9	ug/m3	2.0	0.42	EPA-TO-15	ND		2
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Ethylbenzene	0.43	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		2
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		2
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		2
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		2
Hexane	0.56	ug/m3	5.0	0.20	EPA-TO-15	ND	J	2
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		2
Isopropyl alcohol	4.5	ug/m3	2.0	0.32	EPA-TO-15	ND		2
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		2
Methyl ethyl ketone	0.83	ug/m3	2.0	0.19	EPA-TO-15	ND	J	2
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		2
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304477-03		Client Sample Name: AA-35-1, 3/3/2023 4:15:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	0.93	ug/m3	2.0	0.25	EPA-TO-15	ND	J,C01	2
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		2
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		2
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		2
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
Toluene	2.0	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
Toluene	1.9	ug/m3	2.0	0.27	EPA-TO-15	ND	J	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		2
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		2
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		2
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		2
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		2
p- & m-Xylenes	1.5	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.2	ug/m3	5.0	0.61	EPA-TO-15	ND	J	2
o-Xylene	0.52	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
o-Xylene	0.43	ug/m3	5.0	0.30	EPA-TO-15	ND	J	2
Total Xylenes	2.0	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
Total Xylenes	1.6	ug/m3	10	0.91	EPA-TO-15	ND	J	2
4-Bromofluorobenzene (Surrogate)	102	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	101	%	70 - 130 (LCL - UCL)		EPA-TO-15			2

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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304477-03	Client Sample Name: AA-35-1, 3/3/2023 4:15:00PM, Client								
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15-SIM	03/07/23 13:07	03/08/23 21:35	BEP	MS-A2	1	B161383	EPA TO-15	
2	EPA-TO-15	03/20/23 08:01	03/20/23 20:43	BEP	MS-A2	1	B162268	EPA TO-15	

DCN = Data Continuation Number

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Reported: 04/03/2023 13:14
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 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304477-03	Client Sample Name: AA-35-1, 3/3/2023 4:15:00PM, Client
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	5.5	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/21/23 08:25	03/21/23 22:27	RMK	GC-A1	1	B162383	No Prep

DCN = Data Continuation Number

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 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161383							
Acetone	B161383-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B161383-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B161383-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B161383-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B161383-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B161383-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B161383-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B161383-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B161383-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B161383-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B161383-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B161383-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B161383-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B161383-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B161383-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B161383-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B161383-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B161383-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B161383-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B161383-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B161383-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B161383-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B161383-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B161383-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B161383-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B161383-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161383-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B161383-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B161383-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B161383-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B161383-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B161383-BLK1	97.5	%	50 - 150 (LCL - UCL)			1
QC Batch ID: B162268							

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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162268							
Acetone	B162268-BLK1	ND	ug/m3	5.0	0.43		2
Acrylonitrile	B162268-BLK1	ND	ug/m3	2.0	0.27		2
Allyl chloride	B162268-BLK1	ND	ug/m3	2.0	0.28		2
Benzene	B162268-BLK1	ND	ug/m3	2.0	0.21		2
Benzyl chloride	B162268-BLK1	ND	ug/m3	10	0.26		2
Bromodichloromethane	B162268-BLK1	ND	ug/m3	5.0	0.45		2
Bromoform	B162268-BLK1	ND	ug/m3	10	0.86		2
Bromomethane	B162268-BLK1	ND	ug/m3	2.0	0.47		2
1,3-Butadiene	B162268-BLK1	ND	ug/m3	2.0	0.22		2
Carbon disulfide	B162268-BLK1	ND	ug/m3	2.0	0.19		2
Carbon tetrachloride	B162268-BLK1	ND	ug/m3	5.0	0.45		2
Chlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.40		2
Chloroethane	B162268-BLK1	ND	ug/m3	2.0	0.53		2
Chloroform	B162268-BLK1	ND	ug/m3	5.0	0.54		2
Chloromethane	B162268-BLK1	ND	ug/m3	2.0	0.21		2
Cyclohexane	B162268-BLK1	ND	ug/m3	2.0	0.38		2
Dibromochloromethane	B162268-BLK1	ND	ug/m3	5.0	0.43		2
1,2-Dibromoethane	B162268-BLK1	ND	ug/m3	5.0	0.58		2
1,2-Dichlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.50		2
1,3-Dichlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.31		2
1,4-Dichlorobenzene	B162268-BLK1	ND	ug/m3	5.0	0.50		2
Dichlorodifluoromethane	B162268-BLK1	ND	ug/m3	5.0	0.45		2
1,1-Dichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.23		2
1,2-Dichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.26		2
1,1-Dichloroethene	B162268-BLK1	ND	ug/m3	5.0	0.31		2
cis-1,2-Dichloroethene	B162268-BLK1	ND	ug/m3	2.0	0.32		2
trans-1,2-Dichloroethene	B162268-BLK1	ND	ug/m3	2.0	0.27		2
1,2-Dichloropropane	B162268-BLK1	ND	ug/m3	5.0	0.32		2
cis-1,3-Dichloropropene	B162268-BLK1	ND	ug/m3	5.0	0.30		2
trans-1,3-Dichloropropene	B162268-BLK1	ND	ug/m3	5.0	0.40		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162268-BLK1	ND	ug/m3	5.0	0.91		2
1,1-Difluoroethane	B162268-BLK1	ND	ug/m3	5.0	2.0		2
1,4-Dioxane	B162268-BLK1	ND	ug/m3	2.0	0.33		2
Ethanol	B162268-BLK1	ND	ug/m3	2.0	0.42		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162268							
Ethyl acetate	B162268-BLK1	ND	ug/m3	2.0	0.33		2
Ethylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.32		2
1-Ethyl-4-methylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.30		2
n-Heptane	B162268-BLK1	ND	ug/m3	2.0	0.34		2
Hexachlorobutadiene	B162268-BLK1	ND	ug/m3	10	1.5		2
Hexane	B162268-BLK1	ND	ug/m3	5.0	0.20		2
2-Hexanone	B162268-BLK1	ND	ug/m3	5.0	0.29		2
Isopropyl alcohol	B162268-BLK1	ND	ug/m3	2.0	0.32		2
Methylene chloride	B162268-BLK1	ND	ug/m3	10	0.40		2
Methyl ethyl ketone	B162268-BLK1	ND	ug/m3	2.0	0.19		2
Methyl isobutyl ketone	B162268-BLK1	ND	ug/m3	5.0	0.26		2
Methyl t-butyl ether	B162268-BLK1	ND	ug/m3	2.0	0.28		2
Propylene	B162268-BLK1	ND	ug/m3	2.0	0.25	C01	2
Styrene	B162268-BLK1	ND	ug/m3	5.0	0.24		2
1,1,2,2-Tetrachloroethane	B162268-BLK1	ND	ug/m3	5.0	0.47		2
Tetrachloroethene	B162268-BLK1	ND	ug/m3	2.0	0.50		2
Tetrahydrofuran	B162268-BLK1	ND	ug/m3	2.0	0.27		2
Toluene	B162268-BLK1	ND	ug/m3	2.0	0.27		2
1,2,4-Trichlorobenzene	B162268-BLK1	ND	ug/m3	10	0.82		2
1,1,1-Trichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.39		2
1,1,2-Trichloroethane	B162268-BLK1	ND	ug/m3	5.0	0.61		2
Trichloroethene	B162268-BLK1	ND	ug/m3	2.0	0.54		2
Trichlorofluoromethane	B162268-BLK1	ND	ug/m3	5.0	0.47		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B162268-BLK1	ND	ug/m3	5.0	0.55		2
1,2,4-Trimethylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.40		2
1,3,5-Trimethylbenzene	B162268-BLK1	ND	ug/m3	5.0	0.40		2
Vinyl acetate	B162268-BLK1	ND	ug/m3	2.0	0.33		2
Vinyl chloride	B162268-BLK1	ND	ug/m3	2.0	0.39		2
p- & m-Xylenes	B162268-BLK1	ND	ug/m3	5.0	0.61		2
o-Xylene	B162268-BLK1	ND	ug/m3	5.0	0.30		2
Total Xylenes	B162268-BLK1	ND	ug/m3	10	0.91		2
4-Bromofluorobenzene (Surrogate)	B162268-BLK1	97.1	%	70 - 130 (LCL - UCL)			2

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:14
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161383-BLK1	PB	EPA-TO-15-SIM	03/07/23	03/08/23 02:15	BEP	MS-A2	1
2	B162268-BLK1	PB	EPA-TO-15	03/20/23	03/20/23 14:52	BEP	MS-A2	1

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 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161383											
Benzene	B161383-BS1	LCS	0.29682	0.31948	ug/m3	92.9		70 - 130			1
	B161383-BSD1	LCSD	0.29411	0.31948	ug/m3	92.1	0.9	70 - 130	30		2
Benzyl chloride	B161383-BS1	LCS	0.53191	0.51772	ug/m3	103		70 - 130			1
	B161383-BSD1	LCSD	0.52673	0.51772	ug/m3	102	1.0	70 - 130	30		2
Carbon tetrachloride	B161383-BS1	LCS	0.61246	0.62913	ug/m3	97.4		70 - 130			1
	B161383-BSD1	LCSD	0.60831	0.62913	ug/m3	96.7	0.7	70 - 130	30		2
Chlorobenzene	B161383-BS1	LCS	0.44954	0.46036	ug/m3	97.6		70 - 130			1
	B161383-BSD1	LCSD	0.44512	0.46036	ug/m3	96.7	1.0	70 - 130	30		2
Chloroform	B161383-BS1	LCS	0.46941	0.48825	ug/m3	96.1		70 - 130			1
	B161383-BSD1	LCSD	0.46589	0.48825	ug/m3	95.4	0.8	70 - 130	30		2
1,2-Dibromoethane	B161383-BS1	LCS	0.74722	0.76835	ug/m3	97.2		70 - 130			1
	B161383-BSD1	LCSD	0.74315	0.76835	ug/m3	96.7	0.5	70 - 130	30		2
1,2-Dichlorobenzene	B161383-BS1	LCS	0.63683	0.60124	ug/m3	106		70 - 130			1
	B161383-BSD1	LCSD	0.61176	0.60124	ug/m3	102	4.0	70 - 130	30		2
1,3-Dichlorobenzene	B161383-BS1	LCS	0.64416	0.60124	ug/m3	107		70 - 130			1
	B161383-BSD1	LCSD	0.62769	0.60124	ug/m3	104	2.6	70 - 130	30		2
1,4-Dichlorobenzene	B161383-BS1	LCS	0.65108	0.60124	ug/m3	108		70 - 130			1
	B161383-BSD1	LCSD	0.62769	0.60124	ug/m3	104	3.7	70 - 130	30		2
1,1-Dichloroethane	B161383-BS1	LCS	0.38616	0.40474	ug/m3	95.4		70 - 130			1
	B161383-BSD1	LCSD	0.38341	0.40474	ug/m3	94.7	0.7	70 - 130	30		2
1,2-Dichloroethane	B161383-BS1	LCS	0.39183	0.40474	ug/m3	96.8		70 - 130			1
	B161383-BSD1	LCSD	0.38458	0.40474	ug/m3	95.0	1.9	70 - 130	30		2
1,1-Dichloroethene	B161383-BS1	LCS	0.37298	0.39649	ug/m3	94.1		70 - 130			1
	B161383-BSD1	LCSD	0.36997	0.39649	ug/m3	93.3	0.8	70 - 130	30		2
cis-1,2-Dichloroethene	B161383-BS1	LCS	0.37497	0.39649	ug/m3	94.6		70 - 130			1
	B161383-BSD1	LCSD	0.36949	0.39649	ug/m3	93.2	1.5	70 - 130	30		2
Methylene chloride	B161383-BS1	LCS	0.34783	0.34737	ug/m3	100		70 - 130			1
	B161383-BSD1	LCSD	0.34418	0.34737	ug/m3	99.1	1.1	70 - 130	30		2
Tetrachloroethene	B161383-BS1	LCS	0.65458	0.67825	ug/m3	96.5		70 - 130			1
	B161383-BSD1	LCSD	0.64285	0.67825	ug/m3	94.8	1.8	70 - 130	30		2
Toluene	B161383-BS1	LCS	0.35698	0.37684	ug/m3	94.7		70 - 130			1
	B161383-BSD1	LCSD	0.35333	0.37684	ug/m3	93.8	1.0	70 - 130	30		2
1,1,1-Trichloroethane	B161383-BS1	LCS	0.52363	0.54562	ug/m3	96.0		70 - 130			1
	B161383-BSD1	LCSD	0.52019	0.54562	ug/m3	95.3	0.7	70 - 130	30		2
1,1,2-Trichloroethane	B161383-BS1	LCS	0.52450	0.54562	ug/m3	96.1		70 - 130			1
	B161383-BSD1	LCSD	0.52587	0.54562	ug/m3	96.4	0.3	70 - 130	30		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161383											
Trichloroethene	B161383-BS1	LCS	0.51287	0.53737	ug/m3	95.4		70 - 130			1
	B161383-BSD1	LCSD	0.50626	0.53737	ug/m3	94.2	1.3	70 - 130	30		2
Vinyl chloride	B161383-BS1	LCS	0.26078	0.25562	ug/m3	102		70 - 130			1
	B161383-BSD1	LCSD	0.25027	0.25562	ug/m3	97.9	4.1	70 - 130	30		2
p- & m-Xylenes	B161383-BS1	LCS	0.89166	0.86843	ug/m3	103		70 - 130			1
	B161383-BSD1	LCSD	0.87277	0.86843	ug/m3	100	2.1	70 - 130	30		2
o-Xylene	B161383-BS1	LCS	0.43174	0.43421	ug/m3	99.4		70 - 130			1
	B161383-BSD1	LCSD	0.42427	0.43421	ug/m3	97.7	1.7	70 - 130	30		2
Total Xylenes	B161383-BS1	LCS	1.3234	1.3026	ug/m3	102		70 - 130			1
	B161383-BSD1	LCSD	1.2970	1.3026	ug/m3	99.6	2.0	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161383-BS1	LCS	3.81	3.58	ug/m3	106		50 - 150			1
	B161383-BSD1	LCSD	3.75	3.58	ug/m3	105	1.7	50 - 150			2
QC Batch ID: B162268											
Benzene	B162268-BS1	LCS	15.590	15.974	ug/m3	97.6		70 - 130			3
	B162268-BSD1	LCSD	15.718	15.974	ug/m3	98.4	0.8	70 - 130	30		4
Chloroform	B162268-BS1	LCS	23.436	24.413	ug/m3	96.0		70 - 130			3
	B162268-BSD1	LCSD	23.631	24.413	ug/m3	96.8	0.8	70 - 130	30		4
Ethylbenzene	B162268-BS1	LCS	20.712	21.711	ug/m3	95.4		70 - 130			3
	B162268-BSD1	LCSD	21.146	21.711	ug/m3	97.4	2.1	70 - 130	30		4
Tetrachloroethene	B162268-BS1	LCS	33.641	33.913	ug/m3	99.2		70 - 130			3
	B162268-BSD1	LCSD	34.184	33.913	ug/m3	101	1.6	70 - 130	30		4
Toluene	B162268-BS1	LCS	18.805	18.842	ug/m3	99.8		70 - 130			3
	B162268-BSD1	LCSD	19.219	18.842	ug/m3	102	2.2	70 - 130	30		4
Trichloroethene	B162268-BS1	LCS	26.815	26.869	ug/m3	99.8		70 - 130			3
	B162268-BSD1	LCSD	27.406	26.869	ug/m3	102	2.2	70 - 130	30		4
Trichlorofluoromethane	B162268-BS1	LCS	27.137	28.092	ug/m3	96.6		70 - 130			3
	B162268-BSD1	LCSD	27.249	28.092	ug/m3	97.0	0.4	70 - 130	30		4
1,1,2-Trichloro-1,2,2-trifluoroethane	B162268-BS1	LCS	37.015	38.318	ug/m3	96.6		70 - 130			3
	B162268-BSD1	LCSD	37.322	38.318	ug/m3	97.4	0.8	70 - 130	30		4
p- & m-Xylenes	B162268-BS1	LCS	43.378	43.421	ug/m3	99.9		70 - 130			3
	B162268-BSD1	LCSD	44.680	43.421	ug/m3	103	3.0	70 - 130	30		4
o-Xylene	B162268-BS1	LCS	21.190	21.711	ug/m3	97.6		70 - 130			3
	B162268-BSD1	LCSD	22.058	21.711	ug/m3	102	4.0	70 - 130	30		4
Total Xylenes	B162268-BS1	LCS	64.567	65.132	ug/m3	99.1		70 - 130			3
	B162268-BSD1	LCSD	66.738	65.132	ug/m3	102	3.3	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B162268-BS1	LCS	72.7	71.6	ug/m3	102		70 - 130			3
	B162268-BSD1	LCSD	73.9	71.6	ug/m3	103	1.7	70 - 130			4

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Reported: 04/03/2023 13:14
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161383-BS1	LCS	EPA-TO-15-SIM	03/07/23	03/08/23 01:02	BEP	MS-A2	1
2	B161383-BSD1	LCSD	EPA-TO-15-SIM	03/07/23	03/08/23 01:41	BEP	MS-A2	1
3	B162268-BS1	LCS	EPA-TO-15	03/20/23	03/20/23 13:31	BEP	MS-A2	1
4	B162268-BSD1	LCSD	EPA-TO-15	03/20/23	03/20/23 14:14	BEP	MS-A2	1

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Reported: 04/03/2023 13:14
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B162383

Methane (CH4)	B162383-BLK1	ND	ppmv	2.0	1.8		1
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Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162383-BLK1	PB	ASTM-D1946	03/21/23	03/21/23 17:42	RMK	GC-A1	1

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Reported: 04/03/2023 13:14
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 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162383											
Methane (CH4)	B162383-BS1	LCS	19846	18000	ppmv	110		70 - 130			1
	B162383-BSD1	LCSD	19848	18000	ppmv	110	0.0	70 - 130	30		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162383-BS1	LCS	ASTM-D1946	03/21/23	03/21/23	17:01	RMK	GC-A1	1
2	B162383-BSD1	LCSD	ASTM-D1946	03/21/23	03/21/23	17:22	RMK	GC-A1	1

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Reported: 04/03/2023 13:14
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Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- C01 The calibration curve did not contain the minimum number of standards.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Date of Report: 03/14/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304753
Invoice ID: B471333

Enclosed are the results of analyses for samples received by the laboratory on 3/8/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "BS", is positioned above a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", is positioned above a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / Analytical R
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed. **2304753**

Page: 1 of 1

Section A Required Client Information

Company: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 400
Long Beach, CA 90804
Email To: amcgure@rouxinc.com
Phone: 562-441-8624 Fax:
Requested Due Date/TAE: Standard

Section B Required Project Information

Report To: April McGuire
Copy To:
Purchase Order No.:
Project Name: City Terrace
Project Number: 2855

Section C Invoice Information

Attention: Roux Accounts Payable (rouxap@rouxinc.com)
Company Name: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
Pace Quote Reference: 00130481 & 00132633
Pace Project Manager/Sales Rep: Branna Schulte / Dawn Grisar
Pace Profile #:

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

1 SN-35-1 -1
2 SN-35-2 -2

Method:

TO-15 (SIL)

TO-15 (Short Lat)

TO-15

TO-14

TO-13 (P&H)

TO-13 (Methane)

TO-3M (Methane)

TO-3

3C - Fixed Gas (%)

PM10

Flow Control Number

Summa Can Number

Carister Pressure (Initial Field - psig)

Carister Pressure (Final Field - psig)

31823 Per April
Run TO-15 NOT
SIM - BLS

CHK BY: JCN
DISTRIBUTION
SUB-OUT

ITEM #	COLLECTED		RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS	
	DATE	TIME	DATE	TIME	DATE	TIME	Temp in °C	Received on
1	3/12/23	11:25	3/12/23	11:34	3/23/23	15:56		Y/N
2	3/12/23	11:28	3/12/23	11:35	3/23/23	10:46		Y/N
3								Y/N
4								Y/N
5								Y/N
6								Y/N
7								Y/N
8								Y/N
9								Y/N
10								Y/N
11								Y/N
12								Y/N

SAMPLER NAME AND SIGNATURE

CLIENT NAME: Roux
SIGNATURE: [Signature]
DATE SIGNED: 3/23/23

Temp in °C

Received on

Sealed Cooler

Custody

Samples Test

Comments:

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

FC046Rev 01, 03Feb2010

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>	
Submission #: <u>23-04753</u>					
SHIPPING INFORMATION			SHIPPING CONTAINER		FREE LIQUID
Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / G.L.S <input type="checkbox"/> Hand Delivery <input type="checkbox"/>			Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/>		YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			Other <input type="checkbox"/> (Specify) _____		W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Summa</u> Thermometer ID: _____		Date/Time <u>3-8-23</u>	
		Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Analyst Init <u>SMH1046</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
Pa PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT OIBOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 304										
QT EPA 508/608 J8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz IAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	<u>1AL</u>	<u>A</u>	<u>A</u>							

Comments: _____
 Sample Numbering Completed By: SMH Date/Time: 3-8-23 15:40
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304753-01	COC Number:	---	Receive Date:	03/08/2023 10:46
	Project Number:	---	Sampling Date:	03/07/2023 11:34
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-35-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2304753-02	COC Number:	---	Receive Date:	03/08/2023 10:46
	Project Number:	---	Sampling Date:	03/07/2023 11:35
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-35-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304753-01		Client Sample Name: SV-35-1, 3/7/2023 11:34:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	110	ug/m3	7.9	0.68	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.2	0.44	EPA-TO-15	ND	A01	1
Benzene	6.2	ug/m3	3.2	0.33	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.41	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	7.9	0.71	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.2	0.74	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.2	0.35	EPA-TO-15	ND	A01	1
Carbon disulfide	29	ug/m3	3.2	0.30	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	7.9	0.71	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	7.9	0.63	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.2	0.84	EPA-TO-15	ND	A01	1
Chloroform	1.4	ug/m3	7.9	0.85	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.2	0.33	EPA-TO-15	ND	A01	1
Cyclohexane	1.6	ug/m3	3.2	0.60	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	7.9	0.68	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	7.9	0.92	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	7.9	0.79	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	7.9	0.49	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	7.9	0.79	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.7	ug/m3	7.9	0.71	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	7.9	0.36	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	7.9	0.41	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	7.9	0.49	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.2	0.51	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	7.9	0.51	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	7.9	0.47	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	7.9	0.63	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	7.9	1.4	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	7.9	3.2	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304753-01		Client Sample Name: SV-35-1, 3/7/2023 11:34:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	15	ug/m3	3.2	0.66	EPA-TO-15	ND	A01	1
Ethyl acetate	2.3	ug/m3	3.2	0.52	EPA-TO-15	ND	J,A01	1
Ethylbenzene	2.5	ug/m3	7.9	0.51	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	7.9	0.47	EPA-TO-15	ND	A01	1
n-Heptane	3.2	ug/m3	3.2	0.54	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	1
Hexane	3.4	ug/m3	7.9	0.32	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	7.9	0.46	EPA-TO-15	ND	A01	1
Isopropyl alcohol	27	ug/m3	3.2	0.51	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.63	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	10	ug/m3	3.2	0.30	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	1.8	ug/m3	7.9	0.41	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.2	0.44	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.2	0.40	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	7.9	0.38	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	7.9	0.74	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.2	0.79	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Toluene	26	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	7.9	0.62	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	7.9	0.96	EPA-TO-15	ND	A01	1
Trichloroethene	0.93	ug/m3	3.2	0.85	EPA-TO-15	ND	J,A01	1
Trichlorofluoromethane	1.5	ug/m3	7.9	0.74	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	7.9	0.87	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.4	ug/m3	7.9	0.63	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	7.9	0.63	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.2	0.62	EPA-TO-15	ND	A01	1
p- & m-Xylenes	8.1	ug/m3	7.9	0.96	EPA-TO-15	ND	A01	1
o-Xylene	2.5	ug/m3	7.9	0.47	EPA-TO-15	ND	J,A01	1
Total Xylenes	11	ug/m3	16	1.4	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	96.9	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304753-01	Client Sample Name: SV-35-1, 3/7/2023 11:34:00AM, Client
----------------------------------	---

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	03/09/23 13:05	03/10/23 05:42	BEP	MS-A1	1.580	B161561 EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304753-02		Client Sample Name: SV-35-2, 3/7/2023 11:35:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	27	ug/m3	7.4	0.64	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.0	0.40	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.0	0.41	EPA-TO-15	ND	A01	1
Benzene	3.5	ug/m3	3.0	0.31	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	15	0.38	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	7.4	0.67	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	15	1.3	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.0	0.70	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.0	0.33	EPA-TO-15	ND	A01	1
Carbon disulfide	10	ug/m3	3.0	0.28	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	7.4	0.67	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	7.4	0.59	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.0	0.78	EPA-TO-15	ND	A01	1
Chloroform	0.87	ug/m3	7.4	0.80	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.0	0.31	EPA-TO-15	ND	A01	1
Cyclohexane	0.87	ug/m3	3.0	0.56	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	7.4	0.64	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	7.4	0.86	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	7.4	0.74	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	7.4	0.46	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	7.4	0.74	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.7	ug/m3	7.4	0.67	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	7.4	0.34	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	7.4	0.38	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	7.4	0.46	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.0	0.47	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.0	0.40	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	7.4	0.47	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	7.4	0.44	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	7.4	0.59	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	7.4	1.3	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	7.4	3.0	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.0	0.49	EPA-TO-15	ND	A01	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304753-02		Client Sample Name: SV-35-2, 3/7/2023 11:35:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	22	ug/m3	3.0	0.62	EPA-TO-15	ND	A01	1
Ethyl acetate	1.7	ug/m3	3.0	0.49	EPA-TO-15	ND	J,A01	1
Ethylbenzene	1.5	ug/m3	7.4	0.47	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	7.4	0.44	EPA-TO-15	ND	A01	1
n-Heptane	2.3	ug/m3	3.0	0.50	EPA-TO-15	ND	J,A01	1
Hexachlorobutadiene	ND	ug/m3	15	2.2	EPA-TO-15	ND	A01	1
Hexane	3.5	ug/m3	7.4	0.30	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	7.4	0.43	EPA-TO-15	ND	A01	1
Isopropyl alcohol	41	ug/m3	3.0	0.47	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	15	0.59	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	1.3	ug/m3	3.0	0.28	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	ND	ug/m3	7.4	0.38	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	3.0	0.41	EPA-TO-15	ND	A01	1
Propylene	7.2	ug/m3	3.0	0.37	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	7.4	0.36	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	7.4	0.70	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.0	0.74	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.0	0.40	EPA-TO-15	ND	A01	1
Toluene	17	ug/m3	3.0	0.40	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	15	1.2	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	7.4	0.58	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	7.4	0.90	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.0	0.80	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.4	ug/m3	7.4	0.70	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	7.4	0.81	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	0.95	ug/m3	7.4	0.59	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	7.4	0.59	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.0	0.49	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.0	0.58	EPA-TO-15	ND	A01	1
p- & m-Xylenes	3.9	ug/m3	7.4	0.90	EPA-TO-15	ND	J,A01	1
o-Xylene	1.2	ug/m3	7.4	0.44	EPA-TO-15	ND	J,A01	1
Total Xylenes	5.1	ug/m3	15	1.3	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	95.1	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/14/2023 10:09
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304753-02	Client Sample Name: SV-35-2, 3/7/2023 11:35:00AM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-TO-15	03/09/23 13:05	03/10/23 06:18	BEP	MS-A1	1.480	B161561	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161561							
Acetone	B161561-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B161561-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B161561-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B161561-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B161561-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B161561-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B161561-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B161561-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B161561-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B161561-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B161561-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B161561-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B161561-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B161561-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B161561-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B161561-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B161561-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B161561-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B161561-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B161561-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B161561-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B161561-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B161561-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B161561-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B161561-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B161561-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B161561-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B161561-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B161561-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B161561-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B161561-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B161561-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B161561-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B161561-BLK1	ND	ug/m3	2.0	0.42		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161561							
Ethyl acetate	B161561-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B161561-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B161561-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B161561-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B161561-BLK1	ND	ug/m3	10	1.5		1
Hexane	B161561-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B161561-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B161561-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B161561-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B161561-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B161561-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B161561-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B161561-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B161561-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B161561-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B161561-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B161561-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B161561-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B161561-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B161561-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B161561-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B161561-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B161561-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161561-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B161561-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B161561-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B161561-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B161561-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B161561-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B161561-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B161561-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B161561-BLK1	92.4	%	70 - 130 (LCL - UCL)			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/14/2023 10:09
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B161561-BLK1	PB	EPA-TO-15	03/09/23	03/09/23	15:26	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B161561											
Benzene	B161561-BS1	LCS	16.165	15.974	ug/m3	101		70 - 130			1
	B161561-BSD1	LCSD	16.261	15.974	ug/m3	102	0.6	70 - 130	30		2
Chloroform	B161561-BS1	LCS	24.120	24.413	ug/m3	98.8		70 - 130			1
	B161561-BSD1	LCSD	24.706	24.413	ug/m3	101	2.4	70 - 130	30		2
Ethylbenzene	B161561-BS1	LCS	21.971	21.711	ug/m3	101		70 - 130			1
	B161561-BSD1	LCSD	21.928	21.711	ug/m3	101	0.2	70 - 130	30		2
Tetrachloroethene	B161561-BS1	LCS	33.845	33.913	ug/m3	99.8		70 - 130			1
	B161561-BSD1	LCSD	33.167	33.913	ug/m3	97.8	2.0	70 - 130	30		2
Toluene	B161561-BS1	LCS	19.596	18.842	ug/m3	104		70 - 130			1
	B161561-BSD1	LCSD	19.294	18.842	ug/m3	102	1.6	70 - 130	30		2
Trichloroethene	B161561-BS1	LCS	26.707	26.869	ug/m3	99.4		70 - 130			1
	B161561-BSD1	LCSD	25.901	26.869	ug/m3	96.4	3.1	70 - 130	30		2
Trichlorofluoromethane	B161561-BS1	LCS	27.867	28.092	ug/m3	99.2		70 - 130			1
	B161561-BSD1	LCSD	28.148	28.092	ug/m3	100	1.0	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B161561-BS1	LCS	37.475	38.318	ug/m3	97.8		70 - 130			1
	B161561-BSD1	LCSD	38.088	38.318	ug/m3	99.4	1.6	70 - 130	30		2
p- & m-Xylenes	B161561-BS1	LCS	44.159	43.421	ug/m3	102		70 - 130			1
	B161561-BSD1	LCSD	44.116	43.421	ug/m3	102	0.1	70 - 130	30		2
o-Xylene	B161561-BS1	LCS	22.101	21.711	ug/m3	102		70 - 130			1
	B161561-BSD1	LCSD	22.188	21.711	ug/m3	102	0.4	70 - 130	30		2
Total Xylenes	B161561-BS1	LCS	66.261	65.132	ug/m3	102		70 - 130			1
	B161561-BSD1	LCSD	66.304	65.132	ug/m3	102	0.1	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161561-BS1	LCS	73.4	71.6	ug/m3	103		70 - 130			1
	B161561-BSD1	LCSD	72.0	71.6	ug/m3	101	2.0	70 - 130			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B161561-BS1	LCS	EPA-TO-15	03/09/23	03/09/23	14:26	BEP	MS-A1	1
2	B161561-BSD1	LCSD	EPA-TO-15	03/09/23	03/09/23	14:58	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/14/2023 10:09
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

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

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Date of Report: 04/03/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304474
Invoice ID: B471453, B471954, B472846

Enclosed are the results of analyses for samples received by the laboratory on 3/4/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001408464

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / Analytical
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

2304474

Page: 1 of 1

Section A Required Client Information	Section B Required Project Information	Section C Invoice Information	Program
Company: Roux Address: 5150 E. Pacific Coast Hwy, Ste. 450 Long Beach, CA 90804 Email To: amcguire@rouxinc.com Phone: 562-449-8024 Fax: Requested Due Date (CAT): Standard	Report To: April McGuire Company Name: Roux Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804 Phone Quote Reference: 00132481 & 00132633 Pace Project Manager/Sales Rep: Brianna Schultz / Dawn Gmorr Pace Profile #: _____	Attention: Roux Accounts Payable (rouxap@rouxinc.com) Company Name: Roux Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804 Phone Quote Reference: 00132481 & 00132633 Pace Project Manager/Sales Rep: Brianna Schultz / Dawn Gmorr Pace Profile #: _____	<input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other Location of Sampling by State: CA Report Level: I. II. III. IV. Other

ITEM #	'Section D' Required Client Information		AIR SAMPLE ID		Sample IDs MUST BE UNIQUE	Method	Flow Control Number	Summa Can Number	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	ACCEPTED BY / AFFILIATION	DATE	TIME	RELINQUISHED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Method	Flow Control Number	Summa Can Number	Canister Pressure (Initial Field - psig)													Canister Pressure (Final Field - psig)	ACCEPTED BY / AFFILIATION	DATE	TIME	Received on	Ice	Cooler	Sealed Cooler	Samples Intact
1	IA-36-1	6L	1231	1231	3-3-23	11:59	3:373	0766	-4	-4	Hander Roux	3/3/23	1345	Hander Roux	3/3/23	1345	Y/N	Y/N	Y/N	Y/N
2	IA-36-2	6L	1232	1232	3-3-23	12:02	↑	8343	-4	-4	Hander Roux	3/3/23	1420	Hander Roux	3/3/23	1420	Y/N	Y/N	Y/N	Y/N
3	AA-36-1	6L	1132	1132	3-3-23	11:32	↑	0684	-2	-2	Hander Roux	3/3/23	1120	Hander Roux	3/3/23	1120	Y/N	Y/N	Y/N	Y/N

COLLECTED

DATE	TIME	DATE	TIME
3/3/23	11:59	3:373	12:31
3/3/23	12:02	↑	12:32
3/3/23	11:32	↑	11:32

RELINQUISHED BY / AFFILIATION

Hander Roux 3/3/23 1345
Hander Roux 3/3/23 1420
Hander Roux 3/3/23 1120

SAMPLER NAME AND SIGNATURE

Hander Roux
Signature: [Signature]
Date: 02/03/23

Comments:

CHK BY DISTRIBUTION
SUB-OUT

FCD46Rev.01, 03Feb2010

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

PACE ANALYTICAL		COOLER RECEIPT FORM		Page	Of							
Submission #: 23-04474												
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S							
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments:												
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>												
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: SUMMA Thermometer ID: _____		Date/Time 3/4/23								
		Temperature: (A) Room °C / (C) Temp. °C		Analyst Init JCD H20								
SAMPLE CONTAINERS			SAMPLE NUMBERS									
			1	2	3	4	5	6	7	8	9	10
QT PE UNPRES												
4oz / 8oz / 16oz PE UNPRES												
2oz Cr ⁶												
QT INORGANIC CHEMICAL METALS												
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz												
PT CYANIDE												
PT NITROGEN FORMS												
PT TOTAL SULFIDE												
2oz. NITRATE / NITRITE												
PT TOTAL ORGANIC CARBON												
PT CHEMICAL OXYGEN DEMAND												
PA PHENOLICS												
40ml VOA VIAL TRAVEL BLANK												
40ml VOA VIAL												
QT EPA 1664B												
PT ODOR												
RADIOLOGICAL												
BACTERIOLOGICAL												
40 ml VOA VIAL- 504												
QT EPA 505/605.3/8181A												
QT EPA 515.1/8151A												
QT EPA 525.2												
QT EPA 525.2 TRAVEL BLANK												
40ml EPA 547												
40ml EPA 531.1												
8oz EPA 548.1												
QT EPA 549.2												
QT EPA 5015M												
QT EPA 3270C												
8oz / 16oz / 32oz AMBER												
8oz / 16oz / 32oz JAR												
SOIL SLEEVE												
PCB VIAL												
PLASTIC BAG												
TEDLAR BAG												
FERROUS IRON												
ENCORE												
SMART KIT												
SUMMA CANISTER			A	A	A							

Comments: _____
 Sample Numbering Completed By: JCD Date/Time: 3/4/23 1245
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304474-01	COC Number:	---	Receive Date:	03/04/2023 11:20
	Project Number:	---	Sampling Date:	03/03/2023 12:31
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-36-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2304474-02	COC Number:	---	Receive Date:	03/04/2023 11:20
	Project Number:	---	Sampling Date:	03/03/2023 12:32
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-36-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2304474-03	COC Number:	---	Receive Date:	03/04/2023 11:20
	Project Number:	---	Sampling Date:	03/03/2023 12:28
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AA-36-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304474-01		Client Sample Name: IA-36-1, 3/3/2023 12:31:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	34	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	15	ug/m3	5.0	0.038	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.89	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.85	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	0.38	ug/m3	2.0	0.38	EPA-TO-15	ND	J	1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	3.9	ug/m3	1.0	0.080	EPA-TO-15-SIM	ND	A01	2
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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 Long Beach, CA 90804

Reported: 04/03/2023 13:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304474-01		Client Sample Name: IA-36-1, 3/3/2023 12:31:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	3.4	ug/m3	5.0	2.0	EPA-TO-15	ND	J	1
1,1-Difluoroethane	3.3	ug/m3	25	0.014	EPA-TO-15-SIM	ND	J,A01	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	110	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	1.2	ug/m3	2.0	0.33	EPA-TO-15	ND	J	1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.56	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	0.74	ug/m3	2.0	0.34	EPA-TO-15	ND	J	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	0.67	ug/m3	5.0	0.20	EPA-TO-15	ND	J	1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	130	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.2	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304474-01		Client Sample Name: IA-36-1, 3/3/2023 12:31:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	0.51	ug/m3	5.0	0.24	EPA-TO-15	ND	J	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	2.3	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	2.3	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	0.49	ug/m3	5.0	0.40	EPA-TO-15	ND	J	1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.4	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.9	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.52	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
o-Xylene	0.65	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	2.0	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	2.6	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	97.6	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	107	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	120	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304474-01		Client Sample Name: IA-36-1, 3/3/2023 12:31:00PM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/17/23 13:12	03/18/23 17:23	BEP	MS-A2	1	B162179	EPA TO-15	
2	EPA-TO-15-SIM	03/07/23 13:07	03/08/23 12:21	BEP	MS-A2	5	B161383	EPA TO-15	
3	EPA-TO-15-SIM	03/07/23 13:07	03/08/23 07:12	BEP	MS-A2	1	B161383	EPA TO-15	

DCN = Data Continuation Number

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Reported: 04/03/2023 13:10
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 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304474-01	Client Sample Name: IA-36-1, 3/3/2023 12:31:00PM, Client
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.1	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/21/23 08:24	03/21/23 13:57	RMK	GC-A1	1	B162343	No Prep

DCN = Data Continuation Number

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 Project Number: 2855
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Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304474-02		Client Sample Name: IA-36-2, 3/3/2023 12:32:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	14	ug/m3	5.0	0.43	EPA-TO-15	ND		1
Acetone	6.3	ug/m3	5.0	0.038	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1
Benzene	0.93	ug/m3	2.0	0.21	EPA-TO-15	ND	J	1
Benzene	0.87	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304474-02		Client Sample Name: IA-36-2, 3/3/2023 12:32:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		1
1,1-Difluoroethane	3.6	ug/m3	5.0	2.0	EPA-TO-15	ND	J	1
1,1-Difluoroethane	3.4	ug/m3	25	0.014	EPA-TO-15-SIM	ND	J,A01	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethanol	18	ug/m3	2.0	0.42	EPA-TO-15	ND		1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		1
Ethylbenzene	0.48	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		1
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		1
Isopropyl alcohol	26	ug/m3	2.0	0.32	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	0.86	ug/m3	2.0	0.19	EPA-TO-15	ND	J	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		1

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 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304474-02		Client Sample Name: IA-36-2, 3/3/2023 12:32:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	1
Styrene	0.51	ug/m3	5.0	0.24	EPA-TO-15	ND	J	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	2.3	ug/m3	2.0	0.27	EPA-TO-15	ND		1
Toluene	2.4	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.2	ug/m3	5.0	0.47	EPA-TO-15	ND	J	1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.4	ug/m3	5.0	0.61	EPA-TO-15	ND	J	1
p- & m-Xylenes	1.7	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.52	ug/m3	5.0	0.30	EPA-TO-15	ND	J	1
o-Xylene	0.58	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	1.9	ug/m3	10	0.91	EPA-TO-15	ND	J	1
Total Xylenes	2.3	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	96.9	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	106	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	104	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:10
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304474-02	Client Sample Name: IA-36-2, 3/3/2023 12:32:00PM, Client
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DCN	Method	Prep Date		Run		Analyst	Instrument	Dilution	QC	
				Date/Time	Date/Time				Batch ID	
1	EPA-TO-15	03/17/23	13:12	03/18/23	18:09	BEP	MS-A2	1	B162179	EPA TO-15
2	EPA-TO-15-SIM	03/07/23	13:07	03/08/23	13:00	BEP	MS-A2	5	B161383	EPA TO-15
3	EPA-TO-15-SIM	03/07/23	13:07	03/08/23	07:56	BEP	MS-A2	1	B161383	EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304474-02	Client Sample Name: IA-36-2, 3/3/2023 12:32:00PM, Client							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	79	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/21/23 08:24	03/21/23 14:18	RMK	GC-A1	1	B162343	No Prep

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
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Reported: 04/03/2023 13:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304474-03		Client Sample Name: AA-36-1, 3/3/2023 12:28:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	4.1	ug/m3	2.0	0.015	EPA-TO-15-SIM	ND	A01	1
Acetone	9.1	ug/m3	5.0	0.43	EPA-TO-15	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		2
Benzene	0.86	ug/m3	2.0	0.21	EPA-TO-15	ND	J	2
Benzene	0.85	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		2
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND		2
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND		2
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND		2
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		2
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND		2
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	ND	ug/m3	2.0	0.21	EPA-TO-15	ND		2
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND		2
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND		2
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	2.1	ug/m3	5.0	0.45	EPA-TO-15	ND	J	2
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304474-03		Client Sample Name: AA-36-1, 3/3/2023 12:28:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND		2
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		2
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND		2
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND		2
1,1-Difluoroethane	0.86	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	3
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Ethanol	7.3	ug/m3	2.0	0.42	EPA-TO-15	ND		2
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2
Ethylbenzene	ND	ug/m3	5.0	0.32	EPA-TO-15	ND		2
Ethylbenzene	0.43	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		2
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND		2
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND		2
Hexane	ND	ug/m3	5.0	0.20	EPA-TO-15	ND		2
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND		2
Isopropyl alcohol	3.2	ug/m3	2.0	0.32	EPA-TO-15	ND		2
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND		2
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	ND	ug/m3	2.0	0.19	EPA-TO-15	ND		2
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND		2
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND		2

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Roux Associates, Inc -Long Beach
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 Long Beach, CA 90804

Reported: 04/03/2023 13:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID:	2304474-03	Client Sample Name:	AA-36-1, 3/3/2023 12:28:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	C01	2	
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND		2	
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND		2	
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND		2	
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3	
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND		2	
Toluene	1.9	ug/m3	0.20	0.012	EPA-TO-15-SIM	ND	A01	1	
Toluene	1.9	ug/m3	2.0	0.27	EPA-TO-15	ND	J	2	
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND		2	
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND		2	
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3	
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND		2	
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3	
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND		2	
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3	
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J	2	
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND		2	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3	
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2	
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND		2	
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND		2	
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND		2	
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3	
p- & m-Xylenes	1.2	ug/m3	5.0	0.61	EPA-TO-15	ND	J	2	
p- & m-Xylenes	1.5	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3	
o-Xylene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND		2	
o-Xylene	0.53	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3	
Total Xylenes	1.2	ug/m3	10	0.91	EPA-TO-15	ND	J	2	
Total Xylenes	2.0	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3	
4-Bromofluorobenzene (Surrogate)	106	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1	
4-Bromofluorobenzene (Surrogate)	97.9	%	70 - 130 (LCL - UCL)		EPA-TO-15			2	
4-Bromofluorobenzene (Surrogate)	105	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3	

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Reported: 04/03/2023 13:10
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304474-03		Client Sample Name: AA-36-1, 3/3/2023 12:28:00PM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15-SIM	03/07/23 13:07	03/08/23 13:43	BEP	MS-A2	2	B161383	EPA TO-15	
2	EPA-TO-15	03/17/23 13:12	03/18/23 18:54	BEP	MS-A2	1	B162179	EPA TO-15	
3	EPA-TO-15-SIM	03/07/23 13:07	03/08/23 08:41	BEP	MS-A2	1	B161383	EPA TO-15	

DCN = Data Continuation Number

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Reported: 04/03/2023 13:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2304474-03	Client Sample Name: AA-36-1, 3/3/2023 12:28:00PM, Client
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.1	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/21/23 08:24	03/21/23 14:38	RMK	GC-A1	1	B162343	No Prep

DCN = Data Continuation Number

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Reported: 04/03/2023 13:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161383							
Acetone	B161383-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B161383-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B161383-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B161383-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B161383-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B161383-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B161383-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B161383-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B161383-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B161383-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B161383-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B161383-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B161383-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B161383-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B161383-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B161383-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B161383-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B161383-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B161383-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B161383-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B161383-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B161383-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B161383-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B161383-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B161383-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B161383-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161383-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B161383-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B161383-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B161383-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B161383-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B161383-BLK1	97.5	%	50 - 150 (LCL - UCL)			1
QC Batch ID: B162179							

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/03/2023 13:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162179							
Acetone	B162179-BLK1	ND	ug/m3	5.0	0.43		2
Acrylonitrile	B162179-BLK1	ND	ug/m3	2.0	0.27		2
Allyl chloride	B162179-BLK1	ND	ug/m3	2.0	0.28		2
Benzene	B162179-BLK1	ND	ug/m3	2.0	0.21		2
Benzyl chloride	B162179-BLK1	ND	ug/m3	10	0.26		2
Bromodichloromethane	B162179-BLK1	ND	ug/m3	5.0	0.45		2
Bromoform	B162179-BLK1	ND	ug/m3	10	0.86		2
Bromomethane	B162179-BLK1	ND	ug/m3	2.0	0.47		2
1,3-Butadiene	B162179-BLK1	ND	ug/m3	2.0	0.22		2
Carbon disulfide	B162179-BLK1	ND	ug/m3	2.0	0.19		2
Carbon tetrachloride	B162179-BLK1	ND	ug/m3	5.0	0.45		2
Chlorobenzene	B162179-BLK1	ND	ug/m3	5.0	0.40		2
Chloroethane	B162179-BLK1	ND	ug/m3	2.0	0.53		2
Chloroform	B162179-BLK1	ND	ug/m3	5.0	0.54		2
Chloromethane	B162179-BLK1	ND	ug/m3	2.0	0.21		2
Cyclohexane	B162179-BLK1	ND	ug/m3	2.0	0.38		2
Dibromochloromethane	B162179-BLK1	ND	ug/m3	5.0	0.43		2
1,2-Dibromoethane	B162179-BLK1	ND	ug/m3	5.0	0.58		2
1,2-Dichlorobenzene	B162179-BLK1	ND	ug/m3	5.0	0.50		2
1,3-Dichlorobenzene	B162179-BLK1	ND	ug/m3	5.0	0.31		2
1,4-Dichlorobenzene	B162179-BLK1	ND	ug/m3	5.0	0.50		2
Dichlorodifluoromethane	B162179-BLK1	ND	ug/m3	5.0	0.45		2
1,1-Dichloroethane	B162179-BLK1	ND	ug/m3	5.0	0.23		2
1,2-Dichloroethane	B162179-BLK1	ND	ug/m3	5.0	0.26		2
1,1-Dichloroethene	B162179-BLK1	ND	ug/m3	5.0	0.31		2
cis-1,2-Dichloroethene	B162179-BLK1	ND	ug/m3	2.0	0.32		2
trans-1,2-Dichloroethene	B162179-BLK1	ND	ug/m3	2.0	0.27		2
1,2-Dichloropropane	B162179-BLK1	ND	ug/m3	5.0	0.32		2
cis-1,3-Dichloropropene	B162179-BLK1	ND	ug/m3	5.0	0.30		2
trans-1,3-Dichloropropene	B162179-BLK1	ND	ug/m3	5.0	0.40		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B162179-BLK1	ND	ug/m3	5.0	0.91		2
1,1-Difluoroethane	B162179-BLK1	ND	ug/m3	5.0	2.0		2
1,4-Dioxane	B162179-BLK1	ND	ug/m3	2.0	0.33		2
Ethanol	B162179-BLK1	ND	ug/m3	2.0	0.42		2

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Reported: 04/03/2023 13:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162179							
Ethyl acetate	B162179-BLK1	ND	ug/m3	2.0	0.33		2
Ethylbenzene	B162179-BLK1	ND	ug/m3	5.0	0.32		2
1-Ethyl-4-methylbenzene	B162179-BLK1	ND	ug/m3	5.0	0.30		2
n-Heptane	B162179-BLK1	ND	ug/m3	2.0	0.34		2
Hexachlorobutadiene	B162179-BLK1	ND	ug/m3	10	1.5		2
Hexane	B162179-BLK1	ND	ug/m3	5.0	0.20		2
2-Hexanone	B162179-BLK1	ND	ug/m3	5.0	0.29		2
Isopropyl alcohol	B162179-BLK1	ND	ug/m3	2.0	0.32		2
Methylene chloride	B162179-BLK1	ND	ug/m3	10	0.40		2
Methyl ethyl ketone	B162179-BLK1	ND	ug/m3	2.0	0.19		2
Methyl isobutyl ketone	B162179-BLK1	ND	ug/m3	5.0	0.26		2
Methyl t-butyl ether	B162179-BLK1	ND	ug/m3	2.0	0.28		2
Propylene	B162179-BLK1	ND	ug/m3	2.0	0.25		2
Styrene	B162179-BLK1	ND	ug/m3	5.0	0.24		2
1,1,2,2-Tetrachloroethane	B162179-BLK1	ND	ug/m3	5.0	0.47		2
Tetrachloroethene	B162179-BLK1	ND	ug/m3	2.0	0.50		2
Tetrahydrofuran	B162179-BLK1	ND	ug/m3	2.0	0.27		2
Toluene	B162179-BLK1	ND	ug/m3	2.0	0.27		2
1,2,4-Trichlorobenzene	B162179-BLK1	ND	ug/m3	10	0.82		2
1,1,1-Trichloroethane	B162179-BLK1	ND	ug/m3	5.0	0.39		2
1,1,2-Trichloroethane	B162179-BLK1	ND	ug/m3	5.0	0.61		2
Trichloroethene	B162179-BLK1	ND	ug/m3	2.0	0.54		2
Trichlorofluoromethane	B162179-BLK1	ND	ug/m3	5.0	0.47		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B162179-BLK1	ND	ug/m3	5.0	0.55		2
1,2,4-Trimethylbenzene	B162179-BLK1	ND	ug/m3	5.0	0.40		2
1,3,5-Trimethylbenzene	B162179-BLK1	ND	ug/m3	5.0	0.40		2
Vinyl acetate	B162179-BLK1	ND	ug/m3	2.0	0.33		2
Vinyl chloride	B162179-BLK1	ND	ug/m3	2.0	0.39		2
p- & m-Xylenes	B162179-BLK1	ND	ug/m3	5.0	0.61		2
o-Xylene	B162179-BLK1	ND	ug/m3	5.0	0.30		2
Total Xylenes	B162179-BLK1	ND	ug/m3	10	0.91		2
4-Bromofluorobenzene (Surrogate)	B162179-BLK1	0	%	70 - 130 (LCL - UCL)	S09		2

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Long Beach, CA 90804

Reported: 04/03/2023 13:10
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161383-BLK1	PB	EPA-TO-15-SIM	03/07/23	03/08/23 02:15	BEP	MS-A2	1
2	B162179-BLK1	PB	EPA-TO-15	03/17/23	03/18/23 06:11	BEP	MS-A2	1

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Reported: 04/03/2023 13:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161383											
Benzene	B161383-BS1	LCS	0.29682	0.31948	ug/m3	92.9		70 - 130			1
	B161383-BSD1	LCSD	0.29411	0.31948	ug/m3	92.1	0.9	70 - 130	30		2
Benzyl chloride	B161383-BS1	LCS	0.53191	0.51772	ug/m3	103		70 - 130			1
	B161383-BSD1	LCSD	0.52673	0.51772	ug/m3	102	1.0	70 - 130	30		2
Carbon tetrachloride	B161383-BS1	LCS	0.61246	0.62913	ug/m3	97.4		70 - 130			1
	B161383-BSD1	LCSD	0.60831	0.62913	ug/m3	96.7	0.7	70 - 130	30		2
Chlorobenzene	B161383-BS1	LCS	0.44954	0.46036	ug/m3	97.6		70 - 130			1
	B161383-BSD1	LCSD	0.44512	0.46036	ug/m3	96.7	1.0	70 - 130	30		2
Chloroform	B161383-BS1	LCS	0.46941	0.48825	ug/m3	96.1		70 - 130			1
	B161383-BSD1	LCSD	0.46589	0.48825	ug/m3	95.4	0.8	70 - 130	30		2
1,2-Dibromoethane	B161383-BS1	LCS	0.74722	0.76835	ug/m3	97.2		70 - 130			1
	B161383-BSD1	LCSD	0.74315	0.76835	ug/m3	96.7	0.5	70 - 130	30		2
1,2-Dichlorobenzene	B161383-BS1	LCS	0.63683	0.60124	ug/m3	106		70 - 130			1
	B161383-BSD1	LCSD	0.61176	0.60124	ug/m3	102	4.0	70 - 130	30		2
1,3-Dichlorobenzene	B161383-BS1	LCS	0.64416	0.60124	ug/m3	107		70 - 130			1
	B161383-BSD1	LCSD	0.62769	0.60124	ug/m3	104	2.6	70 - 130	30		2
1,4-Dichlorobenzene	B161383-BS1	LCS	0.65108	0.60124	ug/m3	108		70 - 130			1
	B161383-BSD1	LCSD	0.62769	0.60124	ug/m3	104	3.7	70 - 130	30		2
1,1-Dichloroethane	B161383-BS1	LCS	0.38616	0.40474	ug/m3	95.4		70 - 130			1
	B161383-BSD1	LCSD	0.38341	0.40474	ug/m3	94.7	0.7	70 - 130	30		2
1,2-Dichloroethane	B161383-BS1	LCS	0.39183	0.40474	ug/m3	96.8		70 - 130			1
	B161383-BSD1	LCSD	0.38458	0.40474	ug/m3	95.0	1.9	70 - 130	30		2
1,1-Dichloroethene	B161383-BS1	LCS	0.37298	0.39649	ug/m3	94.1		70 - 130			1
	B161383-BSD1	LCSD	0.36997	0.39649	ug/m3	93.3	0.8	70 - 130	30		2
cis-1,2-Dichloroethene	B161383-BS1	LCS	0.37497	0.39649	ug/m3	94.6		70 - 130			1
	B161383-BSD1	LCSD	0.36949	0.39649	ug/m3	93.2	1.5	70 - 130	30		2
Methylene chloride	B161383-BS1	LCS	0.34783	0.34737	ug/m3	100		70 - 130			1
	B161383-BSD1	LCSD	0.34418	0.34737	ug/m3	99.1	1.1	70 - 130	30		2
Tetrachloroethene	B161383-BS1	LCS	0.65458	0.67825	ug/m3	96.5		70 - 130			1
	B161383-BSD1	LCSD	0.64285	0.67825	ug/m3	94.8	1.8	70 - 130	30		2
Toluene	B161383-BS1	LCS	0.35698	0.37684	ug/m3	94.7		70 - 130			1
	B161383-BSD1	LCSD	0.35333	0.37684	ug/m3	93.8	1.0	70 - 130	30		2
1,1,1-Trichloroethane	B161383-BS1	LCS	0.52363	0.54562	ug/m3	96.0		70 - 130			1
	B161383-BSD1	LCSD	0.52019	0.54562	ug/m3	95.3	0.7	70 - 130	30		2
1,1,2-Trichloroethane	B161383-BS1	LCS	0.52450	0.54562	ug/m3	96.1		70 - 130			1
	B161383-BSD1	LCSD	0.52587	0.54562	ug/m3	96.4	0.3	70 - 130	30		2

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Reported: 04/03/2023 13:10
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B161383											
Trichloroethene	B161383-BS1	LCS	0.51287	0.53737	ug/m3	95.4		70 - 130			1
	B161383-BSD1	LCSD	0.50626	0.53737	ug/m3	94.2	1.3	70 - 130	30		2
Vinyl chloride	B161383-BS1	LCS	0.26078	0.25562	ug/m3	102		70 - 130			1
	B161383-BSD1	LCSD	0.25027	0.25562	ug/m3	97.9	4.1	70 - 130	30		2
p- & m-Xylenes	B161383-BS1	LCS	0.89166	0.86843	ug/m3	103		70 - 130			1
	B161383-BSD1	LCSD	0.87277	0.86843	ug/m3	100	2.1	70 - 130	30		2
o-Xylene	B161383-BS1	LCS	0.43174	0.43421	ug/m3	99.4		70 - 130			1
	B161383-BSD1	LCSD	0.42427	0.43421	ug/m3	97.7	1.7	70 - 130	30		2
Total Xylenes	B161383-BS1	LCS	1.3234	1.3026	ug/m3	102		70 - 130			1
	B161383-BSD1	LCSD	1.2970	1.3026	ug/m3	99.6	2.0	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161383-BS1	LCS	3.81	3.58	ug/m3	106		50 - 150			1
	B161383-BSD1	LCSD	3.75	3.58	ug/m3	105	1.7	50 - 150			2
QC Batch ID: B162179											
Benzene	B162179-BS1	LCS	15.175	15.974	ug/m3	95.0		70 - 130			3
	B162179-BSD1	LCSD	15.239	15.974	ug/m3	95.4	0.4	70 - 130	30		4
Chloroform	B162179-BS1	LCS	22.899	24.413	ug/m3	93.8		70 - 130			3
	B162179-BSD1	LCSD	22.948	24.413	ug/m3	94.0	0.2	70 - 130	30		4
Ethylbenzene	B162179-BS1	LCS	20.451	21.711	ug/m3	94.2		70 - 130			3
	B162179-BSD1	LCSD	20.321	21.711	ug/m3	93.6	0.6	70 - 130	30		4
Tetrachloroethene	B162179-BS1	LCS	34.184	33.913	ug/m3	101		70 - 130			3
	B162179-BSD1	LCSD	33.302	33.913	ug/m3	98.2	2.6	70 - 130	30		4
Toluene	B162179-BS1	LCS	18.805	18.842	ug/m3	99.8		70 - 130			3
	B162179-BSD1	LCSD	18.578	18.842	ug/m3	98.6	1.2	70 - 130	30		4
Trichloroethene	B162179-BS1	LCS	26.385	26.869	ug/m3	98.2		70 - 130			3
	B162179-BSD1	LCSD	26.331	26.869	ug/m3	98.0	0.2	70 - 130	30		4
Trichlorofluoromethane	B162179-BS1	LCS	26.631	28.092	ug/m3	94.8		70 - 130			3
	B162179-BSD1	LCSD	26.575	28.092	ug/m3	94.6	0.2	70 - 130	30		4
1,1,2-Trichloro-1,2,2-trifluoroethane	B162179-BS1	LCS	36.096	38.318	ug/m3	94.2		70 - 130			3
	B162179-BSD1	LCSD	36.249	38.318	ug/m3	94.6	0.4	70 - 130	30		4
p- & m-Xylenes	B162179-BS1	LCS	43.030	43.421	ug/m3	99.1		70 - 130			3
	B162179-BSD1	LCSD	42.509	43.421	ug/m3	97.9	1.2	70 - 130	30		4
o-Xylene	B162179-BS1	LCS	21.276	21.711	ug/m3	98.0		70 - 130			3
	B162179-BSD1	LCSD	20.972	21.711	ug/m3	96.6	1.4	70 - 130	30		4
Total Xylenes	B162179-BS1	LCS	64.307	65.132	ug/m3	98.7		70 - 130			3
	B162179-BSD1	LCSD	63.482	65.132	ug/m3	97.5	1.3	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B162179-BS1	LCS	73.5	71.6	ug/m3	103		70 - 130			3
	B162179-BSD1	LCSD	73.4	71.6	ug/m3	102	0.2	70 - 130			4

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Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161383-BS1	LCS	EPA-TO-15-SIM	03/07/23	03/08/23 01:02	BEP	MS-A2	1
2	B161383-BSD1	LCSD	EPA-TO-15-SIM	03/07/23	03/08/23 01:41	BEP	MS-A2	1
3	B162179-BS1	LCS	EPA-TO-15	03/17/23	03/18/23 04:58	BEP	MS-A2	1
4	B162179-BSD1	LCSD	EPA-TO-15	03/17/23	03/18/23 05:37	BEP	MS-A2	1

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 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
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QC Batch ID: B162343

Methane (CH4)	B162343-BLK1	ND	ppmv	2.0	1.8		1
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Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162343-BLK1	PB	ASTM-D1946	03/21/23	03/21/23 12:25	RMK	GC-A1	1

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 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162343											
Methane (CH4)	B162343-BS1	LCS	19312	18000	ppmv	107		70 - 130			1
	B162343-BSD1	LCSD	19330	18000	ppmv	107	0.1	70 - 130	30		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162343-BS1	LCS	ASTM-D1946	03/21/23	03/21/23	11:44	RMK	GC-A1	1
2	B162343-BSD1	LCSD	ASTM-D1946	03/21/23	03/21/23	12:05	RMK	GC-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/03/2023 13:10
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- C01 The calibration curve did not contain the minimum number of standards.
- S09 The surrogate recovery for this compound was not within the control limits.



Date of Report: 03/14/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2304751
Invoice ID: B471331

Enclosed are the results of analyses for samples received by the laboratory on 3/8/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "BS", is positioned above a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", is positioned above a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Quality Control Reports

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AIR: CHAIN-OF-CUSTODY
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant

2304751 REVISED
3/10/23

Section A Required Client Information
Company: Hou
Address: 5150 E. Pacific Coast Hwy, Ste. 450
City: Long Beach, CA 90804
Phone: 562-446-9024 Fax: _____
E-mail To: amc@paceanalytical.com

Section B Required Project Information
Report To: April McGuire
Client To: _____
Purchase Order No.: _____
Project Name: City Terrace
Project Number: 2855

Section C Invoice Information
Attention: Roux Accounts Payable (roux@paceanalytical.com)
Company Name: Roux
Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
Phone: 562-446-9024 & 562-446-9025
Pace Project Manager/Sales Rep: Bernard Schuster / Dawn Gomer
Pace Profile # _____

Section D Required Client Information
AIR SAMPLE ID
SAMPLE IDS MUST BE UNIQUE

ITEM #	DATE	TIME	FLOW CONTROL NUMBER	SUMMA CAN NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDIT
1	3-6-23	12:51	1359	0841	Juan Carlos	3-7-23	15:55	Juan Carlos	3-7-23	15:55	Temp in C
2	3-6-23	12:51	1359	0841	Juan Carlos	3-7-23	15:55	Juan Carlos	3-7-23	15:55	Received by
3	3-6-23	12:51	1359	0841	Juan Carlos	3-7-23	15:55	Juan Carlos	3-7-23	15:55	Checked by

Comments:

3/10/23 Per email
GOM April run to 15
NOT SUB - BUS -
SUB-OUT

RELINQUISHED BY / AFFILIATION
JUAN CARLOS / PACELABS

ACCEPTED BY / AFFILIATION
JUAN CARLOS / PACELABS

SAMPLER NAME AND SIGNATURE
JUAN CARLOS MOORE
DATE: 03/07/23

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



23-04751

Section A Required Client Information:
 Company: Roux
 Address: 5100 E. Pacific Coast Hwy, Ste. 450
 Long Beach, CA 90804
 Email To: anprog@roux.com
 Phone: 562-448-8624
 Requested Due Date: Standard

Section B Required Project Information:
 Report To: April McDivine
 Copy To:
 Purchased Order No.:
 Project Name: City Terrace
 Project Number: 2655

Section C Invoice Information:
 Client: Roux Accounts Payable (roux@roux.com)
 Company Name: Roux
 Address: 5100 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804
 POC Name: Bianna Schultz / Dawn Greir
 POC Phone: 562-448-8624
 POC Email: roux@roux.com

Section D Required Client Information:
 AIR SAMPLE ID
 Sample ID MUST BE UNIQUE

ITEM #	Media Code	COLLECTED		RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDIT	
		DATE	TIME	DATE	TIME	DATE	TIME	Temp in °C	Received on
1	11C	3-6-23	3-6-23	3-8-23	1555	3-8-23	1557		
2	11C								
3	11C								

Comments:

Summa Can Number: 1359, 1135
 Carister Pressure (Initial Field - psi):
 Carister Pressure (Final Field - psi):
 Flow Control Number:
 Method: P10, P11, P12, P13, P14, P15, P16, P17, P18, P19, P20, P21, P22, P23, P24, P25, P26, P27, P28, P29, P30, P31, P32, P33, P34, P35, P36, P37, P38, P39, P40, P41, P42, P43, P44, P45, P46, P47, P48, P49, P50, P51, P52, P53, P54, P55, P56, P57, P58, P59, P60, P61, P62, P63, P64, P65, P66, P67, P68, P69, P70, P71, P72, P73, P74, P75, P76, P77, P78, P79, P80, P81, P82, P83, P84, P85, P86, P87, P88, P89, P90, P91, P92, P93, P94, P95, P96, P97, P98, P99, P100, P101, P102, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P117, P118, P119, P120, P121, P122, P123, P124, P125, P126, P127, P128, P129, P130, P131, P132, P133, P134, P135, P136, P137, P138, P139, P140, P141, P142, P143, P144, P145, P146, P147, P148, P149, P150, P151, P152, P153, P154, P155, P156, P157, P158, P159, P160, P161, P162, P163, P164, P165, P166, P167, P168, P169, P170, P171, P172, P173, P174, P175, P176, P177, P178, P179, P180, P181, P182, P183, P184, P185, P186, P187, P188, P189, 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1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612-763-8866

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page	Of
Submission #: <u>23-04751</u>					
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments:					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments:					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUNIMA</u> Thermometer ID: _____		Date/Time: <u>3-8-23</u>	
Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Analyst Init: <u>SMH/1157</u>			

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁴⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL-514										
QT EPA 502/608/3031A										
QT EPA 515, 1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA-548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
3oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUNIMA CANISTER	A	A	A							

Comments: _____
 Sample Numbering Completed By: MAJ Date/Time: 3/8/23 1240
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304751-01	COC Number:	---	Receive Date:	03/08/2023 11:57
	Project Number:	---	Sampling Date:	03/06/2023 12:59
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-36-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor Blank
	<hr/>			
2304751-02	COC Number:	---	Receive Date:	03/08/2023 11:57
	Project Number:	---	Sampling Date:	03/06/2023 12:46
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-36-1-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor Blank
	<hr/>			
2304751-03	COC Number:	---	Receive Date:	03/08/2023 11:57
	Project Number:	---	Sampling Date:	03/06/2023 12:11
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-36-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor Blank
	<hr/>			

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304751-01		Client Sample Name: SV-36-1, 3/6/2023 12:59:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	18	ug/m3	8.0	0.69	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Benzene	6.9	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.42	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.2	0.76	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.2	0.35	EPA-TO-15	ND	A01	1
Carbon disulfide	20	ug/m3	3.2	0.31	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.0	0.72	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.2	0.85	EPA-TO-15	ND	A01	1
Chloroform	1.5	ug/m3	8.0	0.87	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.2	0.34	EPA-TO-15	ND	A01	1
Cyclohexane	1.7	ug/m3	3.2	0.61	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	8.0	0.69	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	3.0	ug/m3	8.0	0.93	EPA-TO-15	ND	J,A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.0	0.50	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.0	0.80	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.6	ug/m3	8.0	0.72	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.0	0.37	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	0.72	ug/m3	8.0	0.42	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethene	ND	ug/m3	8.0	0.50	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.0	0.52	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.0	0.48	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.0	1.5	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.0	3.2	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304751-01		Client Sample Name: SV-36-1, 3/6/2023 12:59:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	12	ug/m3	3.2	0.68	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1
Ethylbenzene	4.2	ug/m3	8.0	0.52	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	1.0	ug/m3	8.0	0.48	EPA-TO-15	ND	J,A01	1
n-Heptane	5.5	ug/m3	3.2	0.55	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.4	EPA-TO-15	ND	A01	1
Hexane	2.8	ug/m3	8.0	0.32	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	8.0	0.47	EPA-TO-15	ND	A01	1
Isopropyl alcohol	8.1	ug/m3	3.2	0.52	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.64	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	5.2	ug/m3	3.2	0.31	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	0.92	ug/m3	8.0	0.42	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.2	0.45	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.2	0.40	EPA-TO-15	ND	A01	1
Styrene	12	ug/m3	8.0	0.39	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.0	0.76	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.2	0.80	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
Toluene	26	ug/m3	3.2	0.43	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.0	0.63	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.0	0.98	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.2	0.87	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.4	ug/m3	8.0	0.76	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.0	0.89	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	2.1	ug/m3	8.0	0.64	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.0	0.64	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.2	0.53	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.2	0.63	EPA-TO-15	ND	A01	1
p- & m-Xylenes	11	ug/m3	8.0	0.98	EPA-TO-15	ND	A01	1
o-Xylene	5.4	ug/m3	8.0	0.48	EPA-TO-15	ND	J,A01	1
Total Xylenes	17	ug/m3	16	1.5	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	104	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304751-01	Client Sample Name: SV-36-1, 3/6/2023 12:59:00PM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15	03/09/23 13:05	03/09/23	23:39	BEP	MS-A1	1.610	B161561	EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304751-02		Client Sample Name: SV-36-1-D, 3/6/2023 12:46:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	18	ug/m3	8.2	0.71	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.3	0.46	EPA-TO-15	ND	A01	1
Benzene	8.1	ug/m3	3.3	0.34	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	16	0.43	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.2	0.74	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	16	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.3	0.77	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.3	0.36	EPA-TO-15	ND	A01	1
Carbon disulfide	24	ug/m3	3.3	0.31	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.2	0.74	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.2	0.66	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.3	0.87	EPA-TO-15	ND	A01	1
Chloroform	1.8	ug/m3	8.2	0.89	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.3	0.34	EPA-TO-15	ND	A01	1
Cyclohexane	2.2	ug/m3	3.3	0.62	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	8.2	0.71	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.2	0.95	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.2	0.82	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.2	0.51	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.2	0.82	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.8	ug/m3	8.2	0.74	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.2	0.38	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.2	0.43	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.2	0.51	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.3	0.52	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.2	0.52	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.2	0.49	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.2	0.66	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.2	1.5	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.2	3.3	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304751-02		Client Sample Name: SV-36-1-D, 3/6/2023 12:46:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	15	ug/m3	3.3	0.69	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	1
Ethylbenzene	6.6	ug/m3	8.2	0.52	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	2.3	ug/m3	8.2	0.49	EPA-TO-15	ND	J,A01	1
n-Heptane	5.0	ug/m3	3.3	0.56	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	16	2.5	EPA-TO-15	ND	A01	1
Hexane	4.1	ug/m3	8.2	0.33	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	8.2	0.48	EPA-TO-15	ND	A01	1
Isopropyl alcohol	16	ug/m3	3.3	0.52	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	16	0.66	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	4.4	ug/m3	3.3	0.31	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	0.81	ug/m3	8.2	0.43	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.3	0.46	EPA-TO-15	ND	A01	1
Propylene	8.9	ug/m3	3.3	0.41	EPA-TO-15	ND	A01	1
Styrene	5.2	ug/m3	8.2	0.39	EPA-TO-15	ND	J,A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.2	0.77	EPA-TO-15	ND	A01	1
Tetrachloroethene	2.7	ug/m3	3.3	0.82	EPA-TO-15	ND	J,A01	1
Tetrahydrofuran	ND	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	1
Toluene	37	ug/m3	3.3	0.44	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	16	1.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.2	0.64	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.2	1.0	EPA-TO-15	ND	A01	1
Trichloroethene	1.3	ug/m3	3.3	0.89	EPA-TO-15	ND	J,A01	1
Trichlorofluoromethane	1.5	ug/m3	8.2	0.77	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.2	0.90	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	4.1	ug/m3	8.2	0.66	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	1.3	ug/m3	8.2	0.66	EPA-TO-15	ND	J,A01	1
Vinyl acetate	ND	ug/m3	3.3	0.54	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.3	0.64	EPA-TO-15	ND	A01	1
p- & m-Xylenes	19	ug/m3	8.2	1.0	EPA-TO-15	ND	A01	1
o-Xylene	7.0	ug/m3	8.2	0.49	EPA-TO-15	ND	J,A01	1
Total Xylenes	26	ug/m3	16	1.5	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	100	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/14/2023 10:09
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304751-02	Client Sample Name: SV-36-1-D, 3/6/2023 12:46:00PM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15	03/09/23 13:05	03/10/23 00:15		BEP	MS-A1	1.640	B161561	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304751-03		Client Sample Name: SV-36-2, 3/6/2023 12:11:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	17	ug/m3	7.6	0.65	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.0	0.41	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.0	0.42	EPA-TO-15	ND	A01	1
Benzene	0.87	ug/m3	3.0	0.32	EPA-TO-15	ND	J,A01	1
Benzyl chloride	ND	ug/m3	15	0.39	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	7.6	0.68	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	15	1.3	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.0	0.71	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.0	0.33	EPA-TO-15	ND	A01	1
Carbon disulfide	2.0	ug/m3	3.0	0.29	EPA-TO-15	ND	J,A01	1
Carbon tetrachloride	ND	ug/m3	7.6	0.68	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	7.6	0.60	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.0	0.80	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	7.6	0.82	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	3.0	0.32	EPA-TO-15	ND	A01	1
Cyclohexane	0.57	ug/m3	3.0	0.57	EPA-TO-15	ND	J,A01	1
Dibromochloromethane	ND	ug/m3	7.6	0.65	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	7.6	0.88	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	7.6	0.76	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	7.6	0.47	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	7.6	0.76	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.7	ug/m3	7.6	0.68	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	7.6	0.35	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	7.6	0.39	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	7.6	0.47	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.0	0.48	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.0	0.41	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	7.6	0.48	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	7.6	0.45	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	7.6	0.60	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	7.6	1.4	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	7.6	3.0	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.0	0.50	EPA-TO-15	ND	A01	1

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 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304751-03		Client Sample Name: SV-36-2, 3/6/2023 12:11:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	11	ug/m3	3.0	0.63	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	3.0	0.50	EPA-TO-15	ND	A01	1
Ethylbenzene	2.0	ug/m3	7.6	0.48	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	1.4	ug/m3	7.6	0.45	EPA-TO-15	ND	J,A01	1
n-Heptane	2.4	ug/m3	3.0	0.51	EPA-TO-15	ND	J,A01	1
Hexachlorobutadiene	ND	ug/m3	15	2.3	EPA-TO-15	ND	A01	1
Hexane	ND	ug/m3	7.6	0.30	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ug/m3	7.6	0.44	EPA-TO-15	ND	A01	1
Isopropyl alcohol	7.1	ug/m3	3.0	0.48	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	15	0.60	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	5.5	ug/m3	3.0	0.29	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	0.99	ug/m3	7.6	0.39	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.0	0.42	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	3.0	0.38	EPA-TO-15	ND	A01	1
Styrene	15	ug/m3	7.6	0.36	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	7.6	0.71	EPA-TO-15	ND	A01	1
Tetrachloroethene	1.0	ug/m3	3.0	0.76	EPA-TO-15	ND	J,A01	1
Tetrahydrofuran	0.80	ug/m3	3.0	0.41	EPA-TO-15	ND	J,A01	1
Toluene	2.8	ug/m3	3.0	0.41	EPA-TO-15	ND	J,A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	15	1.2	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	7.6	0.59	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	7.6	0.92	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.0	0.82	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.3	ug/m3	7.6	0.71	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	7.6	0.83	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	2.7	ug/m3	7.6	0.60	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	7.6	0.60	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.0	0.50	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.0	0.59	EPA-TO-15	ND	A01	1
p- & m-Xylenes	6.2	ug/m3	7.6	0.92	EPA-TO-15	ND	J,A01	1
o-Xylene	3.6	ug/m3	7.6	0.45	EPA-TO-15	ND	J,A01	1
Total Xylenes	9.8	ug/m3	15	1.4	EPA-TO-15	ND	J,A01	1
4-Bromofluorobenzene (Surrogate)	100	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2304751-03	Client Sample Name: SV-36-2, 3/6/2023 12:11:00PM, Client
----------------------------------	---

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	03/09/23 13:05	03/10/23 00:51	BEP	MS-A1	1.510	B161561 EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161561							
Acetone	B161561-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B161561-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B161561-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B161561-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B161561-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B161561-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B161561-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B161561-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B161561-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B161561-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B161561-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B161561-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B161561-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B161561-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B161561-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B161561-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B161561-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B161561-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B161561-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B161561-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B161561-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B161561-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B161561-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B161561-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B161561-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B161561-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B161561-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B161561-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B161561-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B161561-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B161561-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B161561-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B161561-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B161561-BLK1	ND	ug/m3	2.0	0.42		1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161561							
Ethyl acetate	B161561-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B161561-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B161561-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B161561-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B161561-BLK1	ND	ug/m3	10	1.5		1
Hexane	B161561-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B161561-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B161561-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B161561-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B161561-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B161561-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B161561-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B161561-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B161561-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B161561-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B161561-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B161561-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B161561-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B161561-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B161561-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B161561-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B161561-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B161561-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161561-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B161561-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B161561-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B161561-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B161561-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B161561-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B161561-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B161561-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B161561-BLK1	92.4	%	70 - 130 (LCL - UCL)			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/14/2023 10:09
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B161561-BLK1	PB	EPA-TO-15	03/09/23	03/09/23	15:26	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 03/14/2023 10:09
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B161561											
Benzene	B161561-BS1	LCS	16.165	15.974	ug/m3	101		70 - 130			1
	B161561-BSD1	LCSD	16.261	15.974	ug/m3	102	0.6	70 - 130	30		2
Chloroform	B161561-BS1	LCS	24.120	24.413	ug/m3	98.8		70 - 130			1
	B161561-BSD1	LCSD	24.706	24.413	ug/m3	101	2.4	70 - 130	30		2
Ethylbenzene	B161561-BS1	LCS	21.971	21.711	ug/m3	101		70 - 130			1
	B161561-BSD1	LCSD	21.928	21.711	ug/m3	101	0.2	70 - 130	30		2
Tetrachloroethene	B161561-BS1	LCS	33.845	33.913	ug/m3	99.8		70 - 130			1
	B161561-BSD1	LCSD	33.167	33.913	ug/m3	97.8	2.0	70 - 130	30		2
Toluene	B161561-BS1	LCS	19.596	18.842	ug/m3	104		70 - 130			1
	B161561-BSD1	LCSD	19.294	18.842	ug/m3	102	1.6	70 - 130	30		2
Trichloroethene	B161561-BS1	LCS	26.707	26.869	ug/m3	99.4		70 - 130			1
	B161561-BSD1	LCSD	25.901	26.869	ug/m3	96.4	3.1	70 - 130	30		2
Trichlorofluoromethane	B161561-BS1	LCS	27.867	28.092	ug/m3	99.2		70 - 130			1
	B161561-BSD1	LCSD	28.148	28.092	ug/m3	100	1.0	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B161561-BS1	LCS	37.475	38.318	ug/m3	97.8		70 - 130			1
	B161561-BSD1	LCSD	38.088	38.318	ug/m3	99.4	1.6	70 - 130	30		2
p- & m-Xylenes	B161561-BS1	LCS	44.159	43.421	ug/m3	102		70 - 130			1
	B161561-BSD1	LCSD	44.116	43.421	ug/m3	102	0.1	70 - 130	30		2
o-Xylene	B161561-BS1	LCS	22.101	21.711	ug/m3	102		70 - 130			1
	B161561-BSD1	LCSD	22.188	21.711	ug/m3	102	0.4	70 - 130	30		2
Total Xylenes	B161561-BS1	LCS	66.261	65.132	ug/m3	102		70 - 130			1
	B161561-BSD1	LCSD	66.304	65.132	ug/m3	102	0.1	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B161561-BS1	LCS	73.4	71.6	ug/m3	103		70 - 130			1
	B161561-BSD1	LCSD	72.0	71.6	ug/m3	101	2.0	70 - 130			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B161561-BS1	LCS	EPA-TO-15	03/09/23	03/09/23	14:26	BEP	MS-A1	1
2	B161561-BSD1	LCSD	EPA-TO-15	03/09/23	03/09/23	14:58	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 03/14/2023 10:09
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

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



Date of Report: 04/04/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2306196
Invoice ID: B472901

Enclosed are the results of analyses for samples received by the laboratory on 3/29/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "BS", is positioned above a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", is positioned above a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / Analytic
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be

2306196

Section A Required Client Information: Company: Roux Address: 5150 E. Pacific Coast Hwy, Ste. 450 Long Beach, CA 90804 Email To: amrc@rouxinc.com Phone: 562-446-8624 Fax: [redacted] Requested Due Date: 3/19/23		Section B Required Project Information: Report To: April McGuire Copy To: Purchase Order No: Project Name: City Terrace Project Number: 2855		Section C Invoice Information: Attention: Roux Accounts Payable (rouxinc.com) Company Name: Roux Address: 5150 E. Pacific Coast Hwy, Ste. 450, Long Beach, CA 90804 POC: Brianna Schum / Dawn Griner POC Profile #:		Page: 1 of 1 Program: <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other Location of Sampling by State: CA Reporting ID(s): Other:	
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE 1 SV-37-1 2 SV-37-2		COLLECTED DATE: 3/28/23 TIME: 1418 DATE: 3/28/23 TIME: 1446 DATE: 3/28/23 TIME: 1423		Method: M10 30 Fixed Gas (%) T0-3M (minutes) T0-4 (PCBs) T0-12 (PAM) T0-14 T0-15 T0-15 Short List T0-15 (SIL)		Flow Control Number Summa Can Number 6125 1381 3029 1211	
Comments: Lab report needed by 3/31/23, if not possible then as soon as possible thereafter		RELINQUISHED BY / AFFILIATION Amy Low Roux 3/28/23 DATE: 3/28/23 TIME: 1600		ACCEPTED BY / AFFILIATION [Signature] 3/29/23 1025		SAMPLE CONDITIONS Received on: Y/N Y/N Y/N Y/N Y/N Ice: Y/N Y/N Y/N Y/N Y/N Sealed Cooler: Y/N Y/N Y/N Y/N Y/N Samples Intact: Y/N Y/N Y/N Y/N Y/N	
PD Reading (Clear only): MEDIA CODE: 1LC, 1LC		CARISTER PRESSURE (Initial Field - psig): -27, -25 CARISTER PRESSURE (Final Field - psig): -6, -5		CHK BY DISTRIBUTION [Signature] [Signature] SUB OUT		SAMPLER NAME AND SIGNATURE Travis Clay [Signature] DATE: 3/28/23	

FC046Rev 01, 03Feb2010

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

PACE ANALYTICAL		COOLER RECEIPT FORM		Page	Of
Submission #: <u>23-06196</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUMMA</u> Thermometer ID: <u>5</u>		Date/Time <u>3/29/23</u>	
		Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Analyst Inlt <u>KP</u> <u>1025</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁴										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS doz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 505/508.3/5081A										
QT EPA 515.1/5151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
3oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8170C										
3oz / 16oz / 32oz AMBER										
3oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A								

Comments: _____
 Sample Numbering Completed By: TOE Date/Time: 3/29/23 1439 Rev 23 06/20/22
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2306196-01	COC Number:	---	Receive Date:	03/29/2023 10:25
	Project Number:	---	Sampling Date:	03/28/2023 14:46
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-37-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2306196-02	COC Number:	---	Receive Date:	03/29/2023 10:25
	Project Number:	---	Sampling Date:	03/28/2023 14:23
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SV-37-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306196-01		Client Sample Name: SV-37-1, 3/28/2023 2:46:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	86	ug/m3	8.3	0.71	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.3	0.45	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.3	0.46	EPA-TO-15	ND	A01	1
Benzene	1.2	ug/m3	3.3	0.35	EPA-TO-15	ND	J,A01	1
Benzyl chloride	ND	ug/m3	17	0.43	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.3	0.75	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	17	1.4	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.3	0.78	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.3	0.37	EPA-TO-15	ND	A01	1
Carbon disulfide	1.9	ug/m3	3.3	0.32	EPA-TO-15	ND	J,A01	1
Carbon tetrachloride	ND	ug/m3	8.3	0.75	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.3	0.66	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.3	0.88	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	8.3	0.90	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	3.3	0.35	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	3.3	0.63	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	8.3	0.71	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.3	0.96	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.3	0.83	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.3	0.51	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.3	0.83	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.2	ug/m3	8.3	0.75	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.3	0.38	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.3	0.43	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.3	0.51	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.3	0.53	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.3	0.45	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.3	0.53	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.3	0.50	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.3	0.66	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.3	1.5	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.3	3.3	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.3	0.55	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306196-01		Client Sample Name: SV-37-1, 3/28/2023 2:46:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	24	ug/m3	3.3	0.70	EPA-TO-15	ND	A01	1
Ethyl acetate	4.0	ug/m3	3.3	0.55	EPA-TO-15	ND	A01	1
Ethylbenzene	8.0	ug/m3	8.3	0.53	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	1.1	ug/m3	8.3	0.50	EPA-TO-15	ND	J,A01	1
n-Heptane	ND	ug/m3	3.3	0.56	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	17	2.5	EPA-TO-15	ND	A01	1
Hexane	1.8	ug/m3	8.3	0.33	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	8.3	0.48	EPA-TO-15	ND	A01	1
Isopropyl alcohol	17	ug/m3	3.3	0.53	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	17	0.66	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	2.1	ug/m3	3.3	0.32	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	1.6	ug/m3	8.3	0.43	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.3	0.46	EPA-TO-15	ND	A01	1
Propylene	1.6	ug/m3	3.3	0.42	EPA-TO-15	ND	J,A01	1
Styrene	ND	ug/m3	8.3	0.40	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.3	0.78	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.3	0.83	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.3	0.45	EPA-TO-15	ND	A01	1
Toluene	4.1	ug/m3	3.3	0.45	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	17	1.4	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.3	0.65	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.3	1.0	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.3	0.90	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.4	ug/m3	8.3	0.78	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.3	0.91	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.6	ug/m3	8.3	0.66	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.3	0.66	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.3	0.55	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.3	0.65	EPA-TO-15	ND	A01	1
p- & m-Xylenes	35	ug/m3	8.3	1.0	EPA-TO-15	ND	A01	1
o-Xylene	11	ug/m3	8.3	0.50	EPA-TO-15	ND	A01	1
Total Xylenes	46	ug/m3	17	1.5	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	93.4	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306196-01	Client Sample Name: SV-37-1, 3/28/2023 2:46:00PM, Client
----------------------------------	---

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15	03/30/23 13:16	03/31/23	04:33	BEP	MS-A2	1.660	B163114	EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306196-02		Client Sample Name: SV-37-2, 3/28/2023 2:23:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	63	ug/m3	8.6	0.74	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	3.5	0.47	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	3.5	0.48	EPA-TO-15	ND	A01	1
Benzene	1.5	ug/m3	3.5	0.36	EPA-TO-15	ND	J,A01	1
Benzyl chloride	ND	ug/m3	17	0.45	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	8.6	0.78	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	17	1.5	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	3.5	0.81	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	3.5	0.38	EPA-TO-15	ND	A01	1
Carbon disulfide	5.5	ug/m3	3.5	0.33	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	8.6	0.78	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	8.6	0.69	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	3.5	0.92	EPA-TO-15	ND	A01	1
Chloroform	2.7	ug/m3	8.6	0.93	EPA-TO-15	ND	J,A01	1
Chloromethane	ND	ug/m3	3.5	0.36	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	3.5	0.66	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	8.6	0.74	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	8.6	1.0	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	8.6	0.86	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	8.6	0.54	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	8.6	0.86	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	2.5	ug/m3	8.6	0.78	EPA-TO-15	ND	J,A01	1
1,1-Dichloroethane	ND	ug/m3	8.6	0.40	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	8.6	0.45	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	8.6	0.54	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	3.5	0.55	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	3.5	0.47	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	8.6	0.55	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	8.6	0.52	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	8.6	0.69	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	8.6	1.6	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	8.6	3.5	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	3.5	0.57	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306196-02		Client Sample Name: SV-37-2, 3/28/2023 2:23:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Ethanol	15	ug/m3	3.5	0.73	EPA-TO-15	ND	A01	1
Ethyl acetate	2.2	ug/m3	3.5	0.57	EPA-TO-15	ND	J,A01	1
Ethylbenzene	7.6	ug/m3	8.6	0.55	EPA-TO-15	ND	J,A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	8.6	0.52	EPA-TO-15	ND	A01	1
n-Heptane	0.92	ug/m3	3.5	0.59	EPA-TO-15	ND	J,A01	1
Hexachlorobutadiene	ND	ug/m3	17	2.6	EPA-TO-15	ND	A01	1
Hexane	2.1	ug/m3	8.6	0.35	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	8.6	0.50	EPA-TO-15	ND	A01	1
Isopropyl alcohol	13	ug/m3	3.5	0.55	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	17	0.69	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	1.8	ug/m3	3.5	0.33	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	1.1	ug/m3	8.6	0.45	EPA-TO-15	ND	J,A01	1
Methyl t-butyl ether	ND	ug/m3	3.5	0.48	EPA-TO-15	ND	A01	1
Propylene	8.1	ug/m3	3.5	0.43	EPA-TO-15	ND	A01	1
Styrene	1.1	ug/m3	8.6	0.42	EPA-TO-15	ND	J,A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.6	0.81	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	3.5	0.86	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	3.5	0.47	EPA-TO-15	ND	A01	1
Toluene	5.4	ug/m3	3.5	0.47	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	17	1.4	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	8.6	0.67	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	8.6	1.1	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	3.5	0.93	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	1.7	ug/m3	8.6	0.81	EPA-TO-15	ND	J,A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	8.6	0.95	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	1.2	ug/m3	8.6	0.69	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	8.6	0.69	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	3.5	0.57	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	3.5	0.67	EPA-TO-15	ND	A01	1
p- & m-Xylenes	32	ug/m3	8.6	1.1	EPA-TO-15	ND	A01	1
o-Xylene	10	ug/m3	8.6	0.52	EPA-TO-15	ND	A01	1
Total Xylenes	43	ug/m3	17	1.6	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	94.4	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
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Reported: 04/04/2023 10:57
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306196-02	Client Sample Name: SV-37-2, 3/28/2023 2:23:00PM, Client
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	03/30/23 13:16	03/31/23 05:18	BEP	MS-A2	1.730	B163114 EPA TO-15

DCN = Data Continuation Number

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Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163114							
Acetone	B163114-BLK1	ND	ug/m3	5.0	0.43		1
Acrylonitrile	B163114-BLK1	ND	ug/m3	2.0	0.27		1
Allyl chloride	B163114-BLK1	ND	ug/m3	2.0	0.28		1
Benzene	B163114-BLK1	ND	ug/m3	2.0	0.21		1
Benzyl chloride	B163114-BLK1	ND	ug/m3	10	0.26		1
Bromodichloromethane	B163114-BLK1	ND	ug/m3	5.0	0.45		1
Bromoform	B163114-BLK1	ND	ug/m3	10	0.86		1
Bromomethane	B163114-BLK1	ND	ug/m3	2.0	0.47		1
1,3-Butadiene	B163114-BLK1	ND	ug/m3	2.0	0.22		1
Carbon disulfide	B163114-BLK1	ND	ug/m3	2.0	0.19		1
Carbon tetrachloride	B163114-BLK1	ND	ug/m3	5.0	0.45		1
Chlorobenzene	B163114-BLK1	ND	ug/m3	5.0	0.40		1
Chloroethane	B163114-BLK1	ND	ug/m3	2.0	0.53		1
Chloroform	B163114-BLK1	ND	ug/m3	5.0	0.54		1
Chloromethane	B163114-BLK1	ND	ug/m3	2.0	0.21		1
Cyclohexane	B163114-BLK1	ND	ug/m3	2.0	0.38		1
Dibromochloromethane	B163114-BLK1	ND	ug/m3	5.0	0.43		1
1,2-Dibromoethane	B163114-BLK1	ND	ug/m3	5.0	0.58		1
1,2-Dichlorobenzene	B163114-BLK1	ND	ug/m3	5.0	0.50		1
1,3-Dichlorobenzene	B163114-BLK1	ND	ug/m3	5.0	0.31		1
1,4-Dichlorobenzene	B163114-BLK1	ND	ug/m3	5.0	0.50		1
Dichlorodifluoromethane	B163114-BLK1	ND	ug/m3	5.0	0.45		1
1,1-Dichloroethane	B163114-BLK1	ND	ug/m3	5.0	0.23		1
1,2-Dichloroethane	B163114-BLK1	ND	ug/m3	5.0	0.26		1
1,1-Dichloroethene	B163114-BLK1	ND	ug/m3	5.0	0.31		1
cis-1,2-Dichloroethene	B163114-BLK1	ND	ug/m3	2.0	0.32		1
trans-1,2-Dichloroethene	B163114-BLK1	ND	ug/m3	2.0	0.27		1
1,2-Dichloropropane	B163114-BLK1	ND	ug/m3	5.0	0.32		1
cis-1,3-Dichloropropene	B163114-BLK1	ND	ug/m3	5.0	0.30		1
trans-1,3-Dichloropropene	B163114-BLK1	ND	ug/m3	5.0	0.40		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B163114-BLK1	ND	ug/m3	5.0	0.91		1
1,1-Difluoroethane	B163114-BLK1	ND	ug/m3	5.0	2.0		1
1,4-Dioxane	B163114-BLK1	ND	ug/m3	2.0	0.33		1
Ethanol	B163114-BLK1	ND	ug/m3	2.0	0.42		1

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Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163114							
Ethyl acetate	B163114-BLK1	ND	ug/m3	2.0	0.33		1
Ethylbenzene	B163114-BLK1	ND	ug/m3	5.0	0.32		1
1-Ethyl-4-methylbenzene	B163114-BLK1	ND	ug/m3	5.0	0.30		1
n-Heptane	B163114-BLK1	ND	ug/m3	2.0	0.34		1
Hexachlorobutadiene	B163114-BLK1	ND	ug/m3	10	1.5		1
Hexane	B163114-BLK1	ND	ug/m3	5.0	0.20		1
2-Hexanone	B163114-BLK1	ND	ug/m3	5.0	0.29		1
Isopropyl alcohol	B163114-BLK1	ND	ug/m3	2.0	0.32		1
Methylene chloride	B163114-BLK1	ND	ug/m3	10	0.40		1
Methyl ethyl ketone	B163114-BLK1	ND	ug/m3	2.0	0.19		1
Methyl isobutyl ketone	B163114-BLK1	ND	ug/m3	5.0	0.26		1
Methyl t-butyl ether	B163114-BLK1	ND	ug/m3	2.0	0.28		1
Propylene	B163114-BLK1	ND	ug/m3	2.0	0.25		1
Styrene	B163114-BLK1	ND	ug/m3	5.0	0.24		1
1,1,2,2-Tetrachloroethane	B163114-BLK1	ND	ug/m3	5.0	0.47		1
Tetrachloroethene	B163114-BLK1	ND	ug/m3	2.0	0.50		1
Tetrahydrofuran	B163114-BLK1	ND	ug/m3	2.0	0.27		1
Toluene	B163114-BLK1	ND	ug/m3	2.0	0.27		1
1,2,4-Trichlorobenzene	B163114-BLK1	ND	ug/m3	10	0.82		1
1,1,1-Trichloroethane	B163114-BLK1	ND	ug/m3	5.0	0.39		1
1,1,2-Trichloroethane	B163114-BLK1	ND	ug/m3	5.0	0.61		1
Trichloroethene	B163114-BLK1	ND	ug/m3	2.0	0.54		1
Trichlorofluoromethane	B163114-BLK1	ND	ug/m3	5.0	0.47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B163114-BLK1	ND	ug/m3	5.0	0.55		1
1,2,4-Trimethylbenzene	B163114-BLK1	ND	ug/m3	5.0	0.40		1
1,3,5-Trimethylbenzene	B163114-BLK1	ND	ug/m3	5.0	0.40		1
Vinyl acetate	B163114-BLK1	ND	ug/m3	2.0	0.33		1
Vinyl chloride	B163114-BLK1	ND	ug/m3	2.0	0.39		1
p- & m-Xylenes	B163114-BLK1	ND	ug/m3	5.0	0.61		1
o-Xylene	B163114-BLK1	ND	ug/m3	5.0	0.30		1
Total Xylenes	B163114-BLK1	ND	ug/m3	10	0.91		1
4-Bromofluorobenzene (Surrogate)	B163114-BLK1	91.0	%	70 - 130 (LCL - UCL)			1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/04/2023 10:57
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
1	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B163114											
Benzene	B163114-BS1	LCS	15.878	15.974	ug/m3	99.4		70 - 130			1
	B163114-BSD1	LCSD	15.846	15.974	ug/m3	99.2	0.2	70 - 130	30		2
Chloroform	B163114-BS1	LCS	23.436	24.413	ug/m3	96.0		70 - 130			1
	B163114-BSD1	LCSD	23.241	24.413	ug/m3	95.2	0.8	70 - 130	30		2
Ethylbenzene	B163114-BS1	LCS	22.883	21.711	ug/m3	105		70 - 130			1
	B163114-BSD1	LCSD	23.057	21.711	ug/m3	106	0.8	70 - 130	30		2
Tetrachloroethene	B163114-BS1	LCS	34.116	33.913	ug/m3	101		70 - 130			1
	B163114-BSD1	LCSD	34.591	33.913	ug/m3	102	1.4	70 - 130	30		2
Toluene	B163114-BS1	LCS	19.332	18.842	ug/m3	103		70 - 130			1
	B163114-BSD1	LCSD	19.445	18.842	ug/m3	103	0.6	70 - 130	30		2
Trichloroethene	B163114-BS1	LCS	27.191	26.869	ug/m3	101		70 - 130			1
	B163114-BSD1	LCSD	27.245	26.869	ug/m3	101	0.2	70 - 130	30		2
Trichlorofluoromethane	B163114-BS1	LCS	27.024	28.092	ug/m3	96.2		70 - 130			1
	B163114-BSD1	LCSD	26.856	28.092	ug/m3	95.6	0.6	70 - 130	30		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B163114-BS1	LCS	37.475	38.318	ug/m3	97.8		70 - 130			1
	B163114-BSD1	LCSD	37.552	38.318	ug/m3	98.0	0.2	70 - 130	30		2
p- & m-Xylenes	B163114-BS1	LCS	46.548	43.421	ug/m3	107		70 - 130			1
	B163114-BSD1	LCSD	46.765	43.421	ug/m3	108	0.5	70 - 130	30		2
o-Xylene	B163114-BS1	LCS	22.926	21.711	ug/m3	106		70 - 130			1
	B163114-BSD1	LCSD	23.100	21.711	ug/m3	106	0.8	70 - 130	30		2
Total Xylenes	B163114-BS1	LCS	69.474	65.132	ug/m3	107		70 - 130			1
	B163114-BSD1	LCSD	69.865	65.132	ug/m3	107	0.6	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B163114-BS1	LCS	72.4	71.6	ug/m3	101		70 - 130			1
	B163114-BSD1	LCSD	72.9	71.6	ug/m3	102	0.7	70 - 130			2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
1	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
2	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 04/04/2023 10:57
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Notes And Definitions

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



Date of Report: 04/04/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2855
BCL Project: City Terrace
BCL Work Order: 2306197
Invoice ID: B472902

Enclosed are the results of analyses for samples received by the laboratory on 3/29/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / ANALYSIS
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

2306197



23-06197

Page: 1 of 1

Section A Required Client Information Company: Roux Address: 5150 E. Pacific Coast Hwy, Ste 450 Long Beach, CA 20804 Email To: amcgure@rouxinc.com Phone: 562-446-8624 Fax: 562-446-8625 Requested Due Date/TAT: Standard 48 hours		Section B Required Project Information Report To: April McGure Copy To: Purchase Order No: Project Name: City Terrace Project Number: 2855		Section C Invoice Information Attention: Roux Accounts Payable (rouxap@rouxinc.com) Company Name: Roux Address: 5150 E. Pacific Coast Hwy, Ste 450, Long Beach, CA 90804 PACE Order Reference: 00132481 & 00132633 PACE Project Manager/Sales Rep: Brianna Schutte / Dawn Groer PACE Profile #		Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE AA-37-1 -1 IA-37-1 -2 IA-37-1-D -3 IA-37-2 -1																																																																															
Section E Required Project Information Method: Report Level: II, III, IV, Other Location of Sampling by State: CA Program: <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other Reporting Date: mm/yy/yy Date: mm/yy/yy		Section F Collected Data <table border="1"> <thead> <tr> <th>ITEM #</th> <th>DATE</th> <th>TIME</th> <th>DATE</th> <th>TIME</th> <th>COMPOSITE TIME</th> <th>RELIQUISHED BY / AFFILIATION</th> <th>DATE</th> <th>TIME</th> <th>ACCEPTED BY / AFFILIATION</th> <th>DATE</th> <th>TIME</th> <th>SAMPLE CONDITIONS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>03/21/23</td> <td>1405</td> <td>03/28/23</td> <td>1003</td> <td></td> <td>Travis Clow</td> <td>03/28/23</td> <td>1600</td> <td>Travis Clow</td> <td>03/28/23</td> <td>1025</td> <td>Temp in °C: _____ Received on: Y/N Ice: Y/N Cooled: Y/N Sealed Cooler: Y/N Samples Shipped: Y/N</td> </tr> <tr> <td>2</td> <td>03/21/23</td> <td>1433</td> <td></td> <td>1150</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>03/21/23</td> <td>1433</td> <td></td> <td>1150</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>03/21/23</td> <td>1433</td> <td></td> <td>1000</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		ITEM #	DATE	TIME	DATE	TIME	COMPOSITE TIME	RELIQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	1	03/21/23	1405	03/28/23	1003		Travis Clow	03/28/23	1600	Travis Clow	03/28/23	1025	Temp in °C: _____ Received on: Y/N Ice: Y/N Cooled: Y/N Sealed Cooler: Y/N Samples Shipped: Y/N	2	03/21/23	1433		1150									3	03/21/23	1433		1150									4	03/21/23	1433		1000									Section G Flow Control Data <table border="1"> <thead> <tr> <th>ITEM #</th> <th>Summa Can Number</th> <th>Flow Control Number</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>652105</td> <td>984</td> </tr> <tr> <td>2</td> <td>2381376</td> <td>29</td> </tr> <tr> <td>3</td> <td>4353503</td> <td>874</td> </tr> <tr> <td>4</td> <td>2381003</td> <td>875</td> </tr> </tbody> </table>		ITEM #	Summa Can Number	Flow Control Number	1	652105	984	2	2381376	29	3	4353503	874	4	2381003	875
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Comments:
Lab report needed by 3/31/23; if not possible, then as soon as possible thereafter.

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>	
Submission #: <u>23-06197</u>					
SHIPPING INFORMATION Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>6</u> Container: _____ Thermometer ID: _____		Date/Time: <u>3/29/23</u> Analyst Init.: <u>DD 1025</u>	
Temperature: (A) <u>Rcom</u> °C / (C) <u>Temp</u> °C					

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / Box / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / Box / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 501										
QT EPA 503/605.3/5031A										
QT EPA 515.1/5151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
3oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUNBA CANISTER	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>						

Comments: _____
 Sample Numbering Completed By: JOL Date/Time: 3/29/23 1444
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2306197-01	COC Number:	---	Receive Date:	03/29/2023 10:25
	Project Number:	---	Sampling Date:	03/27/2023 10:03
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AA-37-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2306197-02	COC Number:	---	Receive Date:	03/29/2023 10:25
	Project Number:	---	Sampling Date:	03/27/2023 11:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-37-1	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2306197-03	COC Number:	---	Receive Date:	03/29/2023 10:25
	Project Number:	---	Sampling Date:	03/27/2023 11:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-37-1-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2306197-04	COC Number:	---	Receive Date:	03/29/2023 10:25
	Project Number:	---	Sampling Date:	03/27/2023 10:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	IA-37-2	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306197-01		Client Sample Name: AA-37-1, 3/27/2023 10:03:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	9.2	ug/m3	5.0	0.43	EPA-TO-15	ND	A01	1
Acetone	8.3	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND		2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND	A01	1
Benzene	0.93	ug/m3	2.0	0.21	EPA-TO-15	ND	J,A01	1
Benzene	0.67	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
Chloromethane	1.0	ug/m3	2.0	0.21	EPA-TO-15	ND	J,A01	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	1.9	ug/m3	5.0	0.45	EPA-TO-15	ND	J,A01	1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306197-01		Client Sample Name: AA-37-1, 3/27/2023 10:03:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	5.0	2.0	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	0.54	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND	A01	1
Ethanol	8.6	ug/m3	2.0	0.42	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND	A01	1
Ethylbenzene	0.91	ug/m3	5.0	0.32	EPA-TO-15	ND	J,A01	1
Ethylbenzene	0.28	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
1-Ethyl-4-methylbenzene	0.59	ug/m3	5.0	0.30	EPA-TO-15	ND	J,A01	1
n-Heptane	1.0	ug/m3	2.0	0.34	EPA-TO-15	ND	J,A01	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND	A01	1
Hexane	1.7	ug/m3	5.0	0.20	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND	A01	1
Isopropyl alcohol	4.2	ug/m3	2.0	0.32	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Methyl ethyl ketone	0.71	ug/m3	2.0	0.19	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
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 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306197-01		Client Sample Name: AA-37-1, 3/27/2023 10:03:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	1
Toluene	2.1	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	1
Toluene	1.4	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.3	ug/m3	5.0	0.47	EPA-TO-15	ND	J,A01	1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
1,2,4-Trimethylbenzene	0.74	ug/m3	5.0	0.40	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	3.7	ug/m3	5.0	0.61	EPA-TO-15	ND	J,A01	1
p- & m-Xylenes	1.0	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	1.0	ug/m3	5.0	0.30	EPA-TO-15	ND	J,A01	1
o-Xylene	0.36	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	4.8	ug/m3	10	0.91	EPA-TO-15	ND	J,A01	1
Total Xylenes	1.4	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	95.1	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	101	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2

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 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306197-01	Client Sample Name: AA-37-1, 3/27/2023 10:03:00AM, Client								
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/30/23 13:16	03/31/23 00:04	BEP	MS-A2	1	B163114	EPA TO-15	
2	EPA-TO-15-SIM	03/29/23 13:51	03/29/23 18:58	BEP	MS-A1	1	B163012	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2306197-01	Client Sample Name: AA-37-1, 3/27/2023 10:03:00AM, Client
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.0	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/29/23 12:00	03/29/23 22:00	RMK	GC-A1	1	B162999	No Prep

DCN = Data Continuation Number

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Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306197-02		Client Sample Name: IA-37-1, 3/27/2023 11:50:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	34	ug/m3	5.0	0.43	EPA-TO-15	ND	A01	1
Acetone	40	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND	A01	1
Benzene	0.83	ug/m3	2.0	0.21	EPA-TO-15	ND	J,A01	1
Benzene	0.79	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.4	ug/m3	2.0	0.21	EPA-TO-15	ND	J,A01	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	1.9	ug/m3	5.0	0.45	EPA-TO-15	ND	J,A01	1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306197-02		Client Sample Name: IA-37-1, 3/27/2023 11:50:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	2.9	ug/m3	5.0	2.0	EPA-TO-15	ND	J,A01	1
1,1-Difluoroethane	2.6	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND	A01	1
Ethanol	210	ug/m3	2.0	0.42	EPA-TO-15	ND	A01	1
Ethyl acetate	1.8	ug/m3	2.0	0.33	EPA-TO-15	ND	J,A01	1
Ethylbenzene	0.65	ug/m3	5.0	0.32	EPA-TO-15	ND	J,A01	1
Ethylbenzene	0.42	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND	A01	1
n-Heptane	0.70	ug/m3	2.0	0.34	EPA-TO-15	ND	J,A01	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND	A01	1
Hexane	1.2	ug/m3	5.0	0.20	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND	A01	1
Isopropyl alcohol	480	ug/m3	2.0	0.32	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.4	ug/m3	2.0	0.19	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND	A01	1

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Reported: 04/04/2023 10:57
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 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306197-02		Client Sample Name: IA-37-1, 3/27/2023 11:50:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	1
Toluene	2.4	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	1
Toluene	2.3	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.2	ug/m3	5.0	0.47	EPA-TO-15	ND	J,A01	1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	0.64	ug/m3	5.0	0.40	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	2.2	ug/m3	5.0	0.61	EPA-TO-15	ND	J,A01	1
p- & m-Xylenes	1.5	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.78	ug/m3	5.0	0.30	EPA-TO-15	ND	J,A01	1
o-Xylene	0.54	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	3.0	ug/m3	10	0.91	EPA-TO-15	ND	J,A01	1
Total Xylenes	2.0	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	97.8	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	91.6	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	113	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306197-02		Client Sample Name: IA-37-1, 3/27/2023 11:50:00AM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/30/23 13:16	03/31/23 00:49	BEP	MS-A2	1	B163114	EPA TO-15	
2	EPA-TO-15-SIM	03/29/23 13:51	03/29/23 21:18	BEP	MS-A1	20	B163012	EPA TO-15	
3	EPA-TO-15-SIM	03/29/23 13:51	03/29/23 19:34	BEP	MS-A1	1	B163012	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2306197-02	Client Sample Name: IA-37-1, 3/27/2023 11:50:00AM, Client
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.7	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/29/23 12:00	03/29/23 22:20	RMK	GC-A1	1	B162999	No Prep

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306197-03		Client Sample Name: IA-37-1-D, 3/27/2023 11:50:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	37	ug/m3	5.0	0.43	EPA-TO-15	ND	A01	1
Acetone	32	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND	A01	1
Benzene	0.73	ug/m3	2.0	0.21	EPA-TO-15	ND	J,A01	1
Benzene	0.85	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND	A01	1
Carbon disulfide	0.34	ug/m3	2.0	0.19	EPA-TO-15	ND	J,A01	1
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.4	ug/m3	2.0	0.21	EPA-TO-15	ND	J,A01	1
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	1.8	ug/m3	5.0	0.45	EPA-TO-15	ND	J,A01	1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306197-03		Client Sample Name: IA-37-1-D, 3/27/2023 11:50:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	2.6	ug/m3	5.0	2.0	EPA-TO-15	ND	J,A01	1
1,1-Difluoroethane	2.7	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND	A01	1
Ethanol	210	ug/m3	2.0	0.42	EPA-TO-15	ND	A01	1
Ethyl acetate	1.6	ug/m3	2.0	0.33	EPA-TO-15	ND	J,A01	1
Ethylbenzene	0.43	ug/m3	5.0	0.32	EPA-TO-15	ND	J,A01	1
Ethylbenzene	0.43	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND	A01	1
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND	A01	1
Hexane	0.67	ug/m3	5.0	0.20	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND	A01	1
Isopropyl alcohol	470	ug/m3	2.0	0.32	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.3	ug/m3	2.0	0.19	EPA-TO-15	ND	J,A01	1
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND	A01	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306197-03		Client Sample Name: IA-37-1-D, 3/27/2023 11:50:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	1
Toluene	2.0	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	1
Toluene	1.8	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	J,A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.1	ug/m3	5.0	0.47	EPA-TO-15	ND	J,A01	1
Trichlorofluoromethane	1.6	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.4	ug/m3	5.0	0.61	EPA-TO-15	ND	J,A01	1
p- & m-Xylenes	1.6	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.56	ug/m3	5.0	0.30	EPA-TO-15	ND	J,A01	1
o-Xylene	0.58	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	2.0	ug/m3	10	0.91	EPA-TO-15	ND	J,A01	1
Total Xylenes	2.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	97.2	%	70 - 130 (LCL - UCL)		EPA-TO-15			1
4-Bromofluorobenzene (Surrogate)	93.6	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2
4-Bromofluorobenzene (Surrogate)	112	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306197-03		Client Sample Name: IA-37-1-D, 3/27/2023 11:50:00AM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15	03/30/23 13:16	03/31/23 01:34	BEP	MS-A2	1	B163114	EPA TO-15	
2	EPA-TO-15-SIM	03/29/23 13:51	03/29/23 21:49	BEP	MS-A1	20	B163012	EPA TO-15	
3	EPA-TO-15-SIM	03/29/23 13:51	03/29/23 20:10	BEP	MS-A1	1	B163012	EPA TO-15	

DCN = Data Continuation Number

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Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2306197-03	Client Sample Name: IA-37-1-D, 3/27/2023 11:50:00AM, Client
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	4.8	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/29/23 12:00	03/29/23 22:40	RMK	GC-A1	1	B162999	No Prep

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306197-04		Client Sample Name: IA-37-2, 3/27/2023 10:00:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	31	ug/m3	20	0.15	EPA-TO-15-SIM	ND	A01	1
Acetone	32	ug/m3	5.0	0.43	EPA-TO-15	ND	A01	2
Acrylonitrile	ND	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	2
Allyl chloride	ND	ug/m3	2.0	0.28	EPA-TO-15	ND	A01	2
Benzene	0.77	ug/m3	2.0	0.21	EPA-TO-15	ND	J,A01	2
Benzene	0.81	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		3
Benzyl chloride	ND	ug/m3	10	0.26	EPA-TO-15	ND	A01	2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		3
Bromodichloromethane	ND	ug/m3	5.0	0.45	EPA-TO-15	ND	A01	2
Bromoform	ND	ug/m3	10	0.86	EPA-TO-15	ND	A01	2
Bromomethane	ND	ug/m3	2.0	0.47	EPA-TO-15	ND	A01	2
1,3-Butadiene	ND	ug/m3	2.0	0.22	EPA-TO-15	ND	A01	2
Carbon disulfide	ND	ug/m3	2.0	0.19	EPA-TO-15	ND	A01	2
Carbon tetrachloride	ND	ug/m3	5.0	0.45	EPA-TO-15	ND	A01	2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		3
Chlorobenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		3
Chloroethane	ND	ug/m3	2.0	0.53	EPA-TO-15	ND	A01	2
Chloroform	ND	ug/m3	5.0	0.54	EPA-TO-15	ND	A01	2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		3
Chloromethane	1.3	ug/m3	2.0	0.21	EPA-TO-15	ND	J,A01	2
Cyclohexane	ND	ug/m3	2.0	0.38	EPA-TO-15	ND	A01	2
Dibromochloromethane	ND	ug/m3	5.0	0.43	EPA-TO-15	ND	A01	2
1,2-Dibromoethane	ND	ug/m3	5.0	0.58	EPA-TO-15	ND	A01	2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		3
1,2-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND	A01	2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		3
1,3-Dichlorobenzene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND	A01	2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		3
1,4-Dichlorobenzene	ND	ug/m3	5.0	0.50	EPA-TO-15	ND	A01	2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		3
Dichlorodifluoromethane	1.9	ug/m3	5.0	0.45	EPA-TO-15	ND	J,A01	2
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		3

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306197-04		Client Sample Name: IA-37-2, 3/27/2023 10:00:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloroethane	ND	ug/m3	5.0	0.23	EPA-TO-15	ND	A01	2
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		3
1,2-Dichloroethane	ND	ug/m3	5.0	0.26	EPA-TO-15	ND	A01	2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		3
1,1-Dichloroethene	ND	ug/m3	5.0	0.31	EPA-TO-15	ND	A01	2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		3
cis-1,2-Dichloroethene	ND	ug/m3	2.0	0.32	EPA-TO-15	ND	A01	2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
trans-1,2-Dichloroethene	ND	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	2
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		3
1,2-Dichloropropane	ND	ug/m3	5.0	0.32	EPA-TO-15	ND	A01	2
cis-1,3-Dichloropropene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND	A01	2
trans-1,3-Dichloropropene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	2
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	5.0	0.91	EPA-TO-15	ND	A01	2
1,1-Difluoroethane	2.1	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	1
1,1-Difluoroethane	2.2	ug/m3	5.0	2.0	EPA-TO-15	ND	J,A01	2
1,4-Dioxane	ND	ug/m3	2.0	0.33	EPA-TO-15	ND	A01	2
Ethanol	230	ug/m3	2.0	0.42	EPA-TO-15	ND	A01	2
Ethyl acetate	2.5	ug/m3	2.0	0.33	EPA-TO-15	ND	A01	2
Ethylbenzene	0.52	ug/m3	5.0	0.32	EPA-TO-15	ND	J,A01	2
Ethylbenzene	0.51	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		3
1-Ethyl-4-methylbenzene	ND	ug/m3	5.0	0.30	EPA-TO-15	ND	A01	2
n-Heptane	ND	ug/m3	2.0	0.34	EPA-TO-15	ND	A01	2
Hexachlorobutadiene	ND	ug/m3	10	1.5	EPA-TO-15	ND	A01	2
Hexane	0.74	ug/m3	5.0	0.20	EPA-TO-15	ND	J,A01	2
2-Hexanone	ND	ug/m3	5.0	0.29	EPA-TO-15	ND	A01	2
Isopropyl alcohol	480	ug/m3	2.0	0.32	EPA-TO-15	ND	A01	2
Methylene chloride	ND	ug/m3	10	0.40	EPA-TO-15	ND	A01	2
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		3
Methyl ethyl ketone	1.1	ug/m3	2.0	0.19	EPA-TO-15	ND	J,A01	2
Methyl isobutyl ketone	ND	ug/m3	5.0	0.26	EPA-TO-15	ND	A01	2
Methyl t-butyl ether	ND	ug/m3	2.0	0.28	EPA-TO-15	ND	A01	2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306197-04		Client Sample Name: IA-37-2, 3/27/2023 10:00:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Propylene	ND	ug/m3	2.0	0.25	EPA-TO-15	ND	A01	2
Styrene	ND	ug/m3	5.0	0.24	EPA-TO-15	ND	A01	2
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	0.47	EPA-TO-15	ND	A01	2
Tetrachloroethene	ND	ug/m3	2.0	0.50	EPA-TO-15	ND	A01	2
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		3
Tetrahydrofuran	ND	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	2
Toluene	1.8	ug/m3	2.0	0.12	EPA-TO-15-SIM	ND	J,A01	1
Toluene	2.1	ug/m3	2.0	0.27	EPA-TO-15	ND	A01	2
1,2,4-Trichlorobenzene	ND	ug/m3	10	0.82	EPA-TO-15	ND	A01	2
1,1,1-Trichloroethane	ND	ug/m3	5.0	0.39	EPA-TO-15	ND	A01	2
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
1,1,2-Trichloroethane	ND	ug/m3	5.0	0.61	EPA-TO-15	ND	A01	2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		3
Trichloroethene	ND	ug/m3	2.0	0.54	EPA-TO-15	ND	A01	2
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		3
Trichlorofluoromethane	1.2	ug/m3	5.0	0.47	EPA-TO-15	ND	J,A01	2
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	5.0	0.55	EPA-TO-15	ND	A01	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		3
1,2,4-Trimethylbenzene	0.59	ug/m3	5.0	0.40	EPA-TO-15	ND	J,A01	2
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	0.40	EPA-TO-15	ND	A01	2
Vinyl acetate	ND	ug/m3	2.0	0.33	EPA-TO-15	ND	A01	2
Vinyl chloride	ND	ug/m3	2.0	0.39	EPA-TO-15	ND	A01	2
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		3
p- & m-Xylenes	1.6	ug/m3	5.0	0.61	EPA-TO-15	ND	J,A01	2
p- & m-Xylenes	1.6	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		3
o-Xylene	0.56	ug/m3	5.0	0.30	EPA-TO-15	ND	J,A01	2
o-Xylene	0.54	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		3
Total Xylenes	2.2	ug/m3	10	0.91	EPA-TO-15	ND	J,A01	2
Total Xylenes	2.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		3
4-Bromofluorobenzene (Surrogate)	88.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	96.9	%	70 - 130 (LCL - UCL)		EPA-TO-15			2
4-Bromofluorobenzene (Surrogate)	113	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			3

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Reported: 04/04/2023 10:57
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2306197-04		Client Sample Name: IA-37-2, 3/27/2023 10:00:00AM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15-SIM	03/29/23 13:51	03/29/23 22:21	BEP	MS-A1	20	B163012	EPA TO-15	
2	EPA-TO-15	03/30/23 13:16	03/31/23 02:19	BEP	MS-A2	1	B163114	EPA TO-15	
3	EPA-TO-15-SIM	03/29/23 13:51	03/29/23 20:47	BEP	MS-A1	1	B163012	EPA TO-15	

DCN = Data Continuation Number

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Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 2306197-04	Client Sample Name: IA-37-2, 3/27/2023 10:00:00AM, Client
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)	2.6	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	ASTM-D1946	03/29/23 12:00	03/29/23 23:01	RMK	GC-A1	1	B162999	No Prep

DCN = Data Continuation Number

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Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163012							
Acetone	B163012-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B163012-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B163012-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B163012-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B163012-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B163012-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B163012-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B163012-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B163012-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B163012-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B163012-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B163012-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B163012-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B163012-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B163012-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B163012-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B163012-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B163012-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B163012-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B163012-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B163012-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B163012-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B163012-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B163012-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B163012-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B163012-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B163012-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B163012-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B163012-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B163012-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B163012-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B163012-BLK1	82.7	%	50 - 150 (LCL - UCL)			1
QC Batch ID: B163114							

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Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163114							
Acetone	B163114-BLK1	ND	ug/m3	5.0	0.43		2
Acrylonitrile	B163114-BLK1	ND	ug/m3	2.0	0.27		2
Allyl chloride	B163114-BLK1	ND	ug/m3	2.0	0.28		2
Benzene	B163114-BLK1	ND	ug/m3	2.0	0.21		2
Benzyl chloride	B163114-BLK1	ND	ug/m3	10	0.26		2
Bromodichloromethane	B163114-BLK1	ND	ug/m3	5.0	0.45		2
Bromoform	B163114-BLK1	ND	ug/m3	10	0.86		2
Bromomethane	B163114-BLK1	ND	ug/m3	2.0	0.47		2
1,3-Butadiene	B163114-BLK1	ND	ug/m3	2.0	0.22		2
Carbon disulfide	B163114-BLK1	ND	ug/m3	2.0	0.19		2
Carbon tetrachloride	B163114-BLK1	ND	ug/m3	5.0	0.45		2
Chlorobenzene	B163114-BLK1	ND	ug/m3	5.0	0.40		2
Chloroethane	B163114-BLK1	ND	ug/m3	2.0	0.53		2
Chloroform	B163114-BLK1	ND	ug/m3	5.0	0.54		2
Chloromethane	B163114-BLK1	ND	ug/m3	2.0	0.21		2
Cyclohexane	B163114-BLK1	ND	ug/m3	2.0	0.38		2
Dibromochloromethane	B163114-BLK1	ND	ug/m3	5.0	0.43		2
1,2-Dibromoethane	B163114-BLK1	ND	ug/m3	5.0	0.58		2
1,2-Dichlorobenzene	B163114-BLK1	ND	ug/m3	5.0	0.50		2
1,3-Dichlorobenzene	B163114-BLK1	ND	ug/m3	5.0	0.31		2
1,4-Dichlorobenzene	B163114-BLK1	ND	ug/m3	5.0	0.50		2
Dichlorodifluoromethane	B163114-BLK1	ND	ug/m3	5.0	0.45		2
1,1-Dichloroethane	B163114-BLK1	ND	ug/m3	5.0	0.23		2
1,2-Dichloroethane	B163114-BLK1	ND	ug/m3	5.0	0.26		2
1,1-Dichloroethene	B163114-BLK1	ND	ug/m3	5.0	0.31		2
cis-1,2-Dichloroethene	B163114-BLK1	ND	ug/m3	2.0	0.32		2
trans-1,2-Dichloroethene	B163114-BLK1	ND	ug/m3	2.0	0.27		2
1,2-Dichloropropane	B163114-BLK1	ND	ug/m3	5.0	0.32		2
cis-1,3-Dichloropropene	B163114-BLK1	ND	ug/m3	5.0	0.30		2
trans-1,3-Dichloropropene	B163114-BLK1	ND	ug/m3	5.0	0.40		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B163114-BLK1	ND	ug/m3	5.0	0.91		2
1,1-Difluoroethane	B163114-BLK1	ND	ug/m3	5.0	2.0		2
1,4-Dioxane	B163114-BLK1	ND	ug/m3	2.0	0.33		2
Ethanol	B163114-BLK1	ND	ug/m3	2.0	0.42		2

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Reported: 04/04/2023 10:57
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 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163114							
Ethyl acetate	B163114-BLK1	ND	ug/m3	2.0	0.33		2
Ethylbenzene	B163114-BLK1	ND	ug/m3	5.0	0.32		2
1-Ethyl-4-methylbenzene	B163114-BLK1	ND	ug/m3	5.0	0.30		2
n-Heptane	B163114-BLK1	ND	ug/m3	2.0	0.34		2
Hexachlorobutadiene	B163114-BLK1	ND	ug/m3	10	1.5		2
Hexane	B163114-BLK1	ND	ug/m3	5.0	0.20		2
2-Hexanone	B163114-BLK1	ND	ug/m3	5.0	0.29		2
Isopropyl alcohol	B163114-BLK1	ND	ug/m3	2.0	0.32		2
Methylene chloride	B163114-BLK1	ND	ug/m3	10	0.40		2
Methyl ethyl ketone	B163114-BLK1	ND	ug/m3	2.0	0.19		2
Methyl isobutyl ketone	B163114-BLK1	ND	ug/m3	5.0	0.26		2
Methyl t-butyl ether	B163114-BLK1	ND	ug/m3	2.0	0.28		2
Propylene	B163114-BLK1	ND	ug/m3	2.0	0.25		2
Styrene	B163114-BLK1	ND	ug/m3	5.0	0.24		2
1,1,2,2-Tetrachloroethane	B163114-BLK1	ND	ug/m3	5.0	0.47		2
Tetrachloroethene	B163114-BLK1	ND	ug/m3	2.0	0.50		2
Tetrahydrofuran	B163114-BLK1	ND	ug/m3	2.0	0.27		2
Toluene	B163114-BLK1	ND	ug/m3	2.0	0.27		2
1,2,4-Trichlorobenzene	B163114-BLK1	ND	ug/m3	10	0.82		2
1,1,1-Trichloroethane	B163114-BLK1	ND	ug/m3	5.0	0.39		2
1,1,2-Trichloroethane	B163114-BLK1	ND	ug/m3	5.0	0.61		2
Trichloroethene	B163114-BLK1	ND	ug/m3	2.0	0.54		2
Trichlorofluoromethane	B163114-BLK1	ND	ug/m3	5.0	0.47		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B163114-BLK1	ND	ug/m3	5.0	0.55		2
1,2,4-Trimethylbenzene	B163114-BLK1	ND	ug/m3	5.0	0.40		2
1,3,5-Trimethylbenzene	B163114-BLK1	ND	ug/m3	5.0	0.40		2
Vinyl acetate	B163114-BLK1	ND	ug/m3	2.0	0.33		2
Vinyl chloride	B163114-BLK1	ND	ug/m3	2.0	0.39		2
p- & m-Xylenes	B163114-BLK1	ND	ug/m3	5.0	0.61		2
o-Xylene	B163114-BLK1	ND	ug/m3	5.0	0.30		2
Total Xylenes	B163114-BLK1	ND	ug/m3	10	0.91		2
4-Bromofluorobenzene (Surrogate)	B163114-BLK1	91.0	%	70 - 130 (LCL - UCL)			2

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Long Beach, CA 90804

Reported: 04/04/2023 10:57
Project: City Terrace
Project Number: 2855
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
2	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1
2	B163114-BLK1	PB	EPA-TO-15	03/30/23	03/30/23 23:19	BEP	MS-A2	1

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 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B163012											
Benzene	B163012-BS1	LCS	0.30376	0.31948	ug/m3	95.1		70 - 130			1
	B163012-BSD1	LCSD	0.30270	0.31948	ug/m3	94.8	0.3	70 - 130	30		2
Benzyl chloride	B163012-BS1	LCS	0.46486	0.51772	ug/m3	89.8		70 - 130		J	1
	B163012-BSD1	LCSD	0.45798	0.51772	ug/m3	88.5	1.5	70 - 130	30	J	2
Carbon tetrachloride	B163012-BS1	LCS	0.62190	0.62913	ug/m3	98.8		70 - 130			1
	B163012-BSD1	LCSD	0.61001	0.62913	ug/m3	97.0	1.9	70 - 130	30		2
Chlorobenzene	B163012-BS1	LCS	0.44383	0.46036	ug/m3	96.4		70 - 130			1
	B163012-BSD1	LCSD	0.43996	0.46036	ug/m3	95.6	0.9	70 - 130	30		2
Chloroform	B163012-BS1	LCS	0.47878	0.48825	ug/m3	98.1		70 - 130			1
	B163012-BSD1	LCSD	0.47043	0.48825	ug/m3	96.4	1.8	70 - 130	30		2
1,2-Dibromoethane	B163012-BS1	LCS	0.74138	0.76835	ug/m3	96.5		70 - 130			1
	B163012-BSD1	LCSD	0.74284	0.76835	ug/m3	96.7	0.2	70 - 130	30		2
1,2-Dichlorobenzene	B163012-BS1	LCS	0.56684	0.60124	ug/m3	94.3		70 - 130			1
	B163012-BSD1	LCSD	0.58440	0.60124	ug/m3	97.2	3.0	70 - 130	30		2
1,3-Dichlorobenzene	B163012-BS1	LCS	0.57502	0.60124	ug/m3	95.6		70 - 130			1
	B163012-BSD1	LCSD	0.57316	0.60124	ug/m3	95.3	0.3	70 - 130	30		2
1,4-Dichlorobenzene	B163012-BS1	LCS	0.54063	0.60124	ug/m3	89.9		70 - 130			1
	B163012-BSD1	LCSD	0.55013	0.60124	ug/m3	91.5	1.7	70 - 130	30		2
1,1-Dichloroethane	B163012-BS1	LCS	0.39155	0.40474	ug/m3	96.7		70 - 130			1
	B163012-BSD1	LCSD	0.38968	0.40474	ug/m3	96.3	0.5	70 - 130	30		2
1,2-Dichloroethane	B163012-BS1	LCS	0.38272	0.40474	ug/m3	94.6		70 - 130			1
	B163012-BSD1	LCSD	0.37940	0.40474	ug/m3	93.7	0.9	70 - 130	30		2
1,1-Dichloroethene	B163012-BS1	LCS	0.43614	0.39649	ug/m3	110		70 - 130			1
	B163012-BSD1	LCSD	0.42457	0.39649	ug/m3	107	2.7	70 - 130	30		2
cis-1,2-Dichloroethene	B163012-BS1	LCS	0.38373	0.39649	ug/m3	96.8		70 - 130			1
	B163012-BSD1	LCSD	0.36930	0.39649	ug/m3	93.1	3.8	70 - 130	30		2
Methylene chloride	B163012-BS1	LCS	0.40024	0.34737	ug/m3	115		70 - 130			1
	B163012-BSD1	LCSD	0.38722	0.34737	ug/m3	111	3.3	70 - 130	30		2
Tetrachloroethene	B163012-BS1	LCS	0.64848	0.67825	ug/m3	95.6		70 - 130			1
	B163012-BSD1	LCSD	0.64529	0.67825	ug/m3	95.1	0.5	70 - 130	30		2
Toluene	B163012-BS1	LCS	0.35917	0.37684	ug/m3	95.3		70 - 130			1
	B163012-BSD1	LCSD	0.34964	0.37684	ug/m3	92.8	2.7	70 - 130	30		2
1,1,1-Trichloroethane	B163012-BS1	LCS	0.53034	0.54562	ug/m3	97.2		70 - 130			1
	B163012-BSD1	LCSD	0.52636	0.54562	ug/m3	96.5	0.8	70 - 130	30		2
1,1,2-Trichloroethane	B163012-BS1	LCS	0.50835	0.54562	ug/m3	93.2		70 - 130			1
	B163012-BSD1	LCSD	0.51370	0.54562	ug/m3	94.2	1.0	70 - 130	30		2

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Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B163012											
Trichloroethene	B163012-BS1	LCS	0.50051	0.53737	ug/m3	93.1		70 - 130			1
	B163012-BSD1	LCSD	0.49772	0.53737	ug/m3	92.6	0.6	70 - 130	30		2
Vinyl chloride	B163012-BS1	LCS	0.24940	0.25562	ug/m3	97.6		70 - 130			1
	B163012-BSD1	LCSD	0.25071	0.25562	ug/m3	98.1	0.5	70 - 130	30		2
p- & m-Xylenes	B163012-BS1	LCS	0.80038	0.86843	ug/m3	92.2		70 - 130			1
	B163012-BSD1	LCSD	0.79991	0.86843	ug/m3	92.1	0.1	70 - 130	30		2
o-Xylene	B163012-BS1	LCS	0.41207	0.43421	ug/m3	94.9		70 - 130			1
	B163012-BSD1	LCSD	0.40799	0.43421	ug/m3	94.0	1.0	70 - 130	30		2
Total Xylenes	B163012-BS1	LCS	1.2125	1.3026	ug/m3	93.1		70 - 130			1
	B163012-BSD1	LCSD	1.2079	1.3026	ug/m3	92.7	0.4	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B163012-BS1	LCS	3.52	3.58	ug/m3	98.4		50 - 150			1
	B163012-BSD1	LCSD	3.53	3.58	ug/m3	98.7	0.3	50 - 150			2
QC Batch ID: B163114											
Benzene	B163114-BS1	LCS	15.878	15.974	ug/m3	99.4		70 - 130			3
	B163114-BSD1	LCSD	15.846	15.974	ug/m3	99.2	0.2	70 - 130	30		4
Chloroform	B163114-BS1	LCS	23.436	24.413	ug/m3	96.0		70 - 130			3
	B163114-BSD1	LCSD	23.241	24.413	ug/m3	95.2	0.8	70 - 130	30		4
Ethylbenzene	B163114-BS1	LCS	22.883	21.711	ug/m3	105		70 - 130			3
	B163114-BSD1	LCSD	23.057	21.711	ug/m3	106	0.8	70 - 130	30		4
Tetrachloroethene	B163114-BS1	LCS	34.116	33.913	ug/m3	101		70 - 130			3
	B163114-BSD1	LCSD	34.591	33.913	ug/m3	102	1.4	70 - 130	30		4
Toluene	B163114-BS1	LCS	19.332	18.842	ug/m3	103		70 - 130			3
	B163114-BSD1	LCSD	19.445	18.842	ug/m3	103	0.6	70 - 130	30		4
Trichloroethene	B163114-BS1	LCS	27.191	26.869	ug/m3	101		70 - 130			3
	B163114-BSD1	LCSD	27.245	26.869	ug/m3	101	0.2	70 - 130	30		4
Trichlorofluoromethane	B163114-BS1	LCS	27.024	28.092	ug/m3	96.2		70 - 130			3
	B163114-BSD1	LCSD	26.856	28.092	ug/m3	95.6	0.6	70 - 130	30		4
1,1,2-Trichloro-1,2,2-trifluoroethane	B163114-BS1	LCS	37.475	38.318	ug/m3	97.8		70 - 130			3
	B163114-BSD1	LCSD	37.552	38.318	ug/m3	98.0	0.2	70 - 130	30		4
p- & m-Xylenes	B163114-BS1	LCS	46.548	43.421	ug/m3	107		70 - 130			3
	B163114-BSD1	LCSD	46.765	43.421	ug/m3	108	0.5	70 - 130	30		4
o-Xylene	B163114-BS1	LCS	22.926	21.711	ug/m3	106		70 - 130			3
	B163114-BSD1	LCSD	23.100	21.711	ug/m3	106	0.8	70 - 130	30		4
Total Xylenes	B163114-BS1	LCS	69.474	65.132	ug/m3	107		70 - 130			3
	B163114-BSD1	LCSD	69.865	65.132	ug/m3	107	0.6	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B163114-BS1	LCS	72.4	71.6	ug/m3	101		70 - 130			3
	B163114-BSD1	LCSD	72.9	71.6	ug/m3	102	0.7	70 - 130			4

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Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
2	B163012-BSD1	LCSD	EPA-TO-15-SIM	03/29/23	03/29/23 17:54	BEP	MS-A1	1
2	B163012-BSD1	LCSD	EPA-TO-15-SIM	03/29/23	03/29/23 17:54	BEP	MS-A1	1
2	B163012-BSD1	LCSD	EPA-TO-15-SIM	03/29/23	03/29/23 17:54	BEP	MS-A1	1
2	B163012-BSD1	LCSD	EPA-TO-15-SIM	03/29/23	03/29/23 17:54	BEP	MS-A1	1
2	B163012-BSD1	LCSD	EPA-TO-15-SIM	03/29/23	03/29/23 17:54	BEP	MS-A1	1
2	B163012-BSD1	LCSD	EPA-TO-15-SIM	03/29/23	03/29/23 17:54	BEP	MS-A1	1
2	B163012-BSD1	LCSD	EPA-TO-15-SIM	03/29/23	03/29/23 17:54	BEP	MS-A1	1
2	B163012-BSD1	LCSD	EPA-TO-15-SIM	03/29/23	03/29/23 17:54	BEP	MS-A1	1
2	B163012-BSD1	LCSD	EPA-TO-15-SIM	03/29/23	03/29/23 17:54	BEP	MS-A1	1
2	B163012-BSD1	LCSD	EPA-TO-15-SIM	03/29/23	03/29/23 17:54	BEP	MS-A1	1
2	B163012-BSD1	LCSD	EPA-TO-15-SIM	03/29/23	03/29/23 17:54	BEP	MS-A1	1
2	B163012-BSD1	LCSD	EPA-TO-15-SIM	03/29/23	03/29/23 17:54	BEP	MS-A1	1
2	B163012-BSD1	LCSD	EPA-TO-15-SIM	03/29/23	03/29/23 17:54	BEP	MS-A1	1
2	B163012-BSD1	LCSD	EPA-TO-15-SIM	03/29/23	03/29/23 17:54	BEP	MS-A1	1
2	B163012-BSD1	LCSD	EPA-TO-15-SIM	03/29/23	03/29/23 17:54	BEP	MS-A1	1
2	B163012-BSD1	LCSD	EPA-TO-15-SIM	03/29/23	03/29/23 17:54	BEP	MS-A1	1
2	B163012-BSD1	LCSD	EPA-TO-15-SIM	03/29/23	03/29/23 17:54	BEP	MS-A1	1
2	B163012-BSD1	LCSD	EPA-TO-15-SIM	03/29/23	03/29/23 17:54	BEP	MS-A1	1
3	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
3	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
3	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
3	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
3	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
3	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
3	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
3	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
3	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
3	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
3	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
3	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
3	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
3	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
3	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
3	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
3	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
3	B163114-BS1	LCS	EPA-TO-15	03/30/23	03/30/23 22:03	BEP	MS-A2	1
4	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
4	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
4	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
4	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1

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Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
4	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
4	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
4	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
4	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
4	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
4	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
4	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1
4	B163114-BSD1	LCSD	EPA-TO-15	03/30/23	03/30/23 22:43	BEP	MS-A2	1

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Reported: 04/04/2023 10:57
 Project: City Terrace
 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B162999

Methane (CH4)	B162999-BLK1	ND	ppmv	2.0	1.8		1
---------------	--------------	----	------	-----	-----	--	---

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162999-BLK1	PB	ASTM-D1946	03/29/23	03/29/23 16:17	RMK	GC-A1	1

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 Project Number: 2855
 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B162999											
Methane (CH4)	B162999-BS1	LCS	18955	18000	ppmv	105		70 - 130			1
	B162999-BSD1	LCSD	19958	18000	ppmv	111	5.2	70 - 130	30		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B162999-BS1	LCS	ASTM-D1946	03/29/23	03/29/23	15:36	RMK	GC-A1	1
2	B162999-BSD1	LCSD	ASTM-D1946	03/29/23	03/29/23	15:56	RMK	GC-A1	1

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Notes And Definitions

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

Soil Gas and Indoor Air Sampling Report
City Terrace, East Los Angeles, California

APPENDIX E

Human Health Screening Evaluation



Limited Human Health Screening Evaluation

City Terrace
East Los Angeles, California

June 22, 2023

Prepared for:

Best, Best & Krieger - City Terrace

Prepared by:

Roux Associates, Inc.

5150 E. Pacific Coast Highway, Suite 450
Long Beach, California, 90804

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LIMITED HUMAN HEALTH SCREENING EVALUATION
City Terrace
East Los Angeles, California

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Executive Summary

Roux Associates, Inc. (Roux), on behalf of the County of Los Angeles (County), has prepared this *Limited Human Health Screening Evaluation* (HHSE) for a portion of the City Terrace community (Community) in East Los Angeles, Los Angeles County, California. This HHSE incorporates results of soil gas, indoor air, and ambient/outdoor air sampling investigations conducted at 23 residential properties as part of the *Soil Gas and Indoor Air Sampling Report* (to which this HHSE is attached).

The objective of the HHSE is to provide a conservative evaluation of the potential risk from exposure to chemicals detected in the indoor air within residential properties of the Community. As such, the HHSE was prepared to evaluate whether chemicals of potential concern (COPCs) present in indoor air in the Community pose an unacceptable level of risk to current residential receptors. The HHSE was prepared pursuant to the California Department of Toxic Substance Control (DTSC) *Preliminary Endangerment Assessment Guidance Manual* (PEA Guidance; DTSC, 2015).

To evaluate residential exposures to indoor air, the DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note Number 3 Screening Levels (DTSC HHRA Note 3; DTSC, 2022a), the United States Environmental Protection Agency (USEPA) Regional Screening Levels (RSLs; USEPA, 2023) and the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) direct-exposure health-risk-based Environmental Screening Levels (ESLs) for non-carcinogenic and carcinogenic effects were utilized.

The risk characterization process integrates the results of the data evaluation, exposure assessment, and toxicity assessment to provide a quantitative estimation of cumulative non-carcinogenic and carcinogenic risks. The risks for current residential use within the Community are summarized below.

Cumulative Cancer Risk and Non-Cancer Hazard

	Estimated Cancer Risk (ILCR)	Exceed Risk Threshold of 1E-06?	Estimated Non-Cancer Hazard (HI)	Exceed Hazard Threshold of 1?
17 Residential Properties	4E-06 to 1E-04	Yes	2E-01 to 1E+00	No
6 Residential Properties	9E-06 to 7E-04	Yes	2E+00 to 5E+00	Yes

1. Introduction

Roux Associates, Inc. (Roux), on behalf of the County, has prepared this *Limited Human Health Screening Evaluation* (HHSE) for a portion of the City Terrace community (Community) in East Los Angeles, Los Angeles County, California. This HHSE incorporates results of soil gas, indoor air, and ambient/outdoor air investigations conducted at 23 residential properties as part of the *Soil Gas and Indoor Air Sampling Report* (to which this HHSE is attached).

The objective of the HHSE is to provide a conservative evaluation of the potential risk from exposure to chemicals in the Community detected in indoor air. As such, the HHSE has been prepared to evaluate whether chemicals of potential concern (COPCs) found in indoor air in the Community pose an unacceptable level of risk to residents.

The HHSE was prepared pursuant to the DTSC *Preliminary Endangerment Assessment Guidance Manual* (PEA Guidance; DTSC, 2015), and consists of four components:

- **Evaluation of Exposure Pathways:** Exposure to chemicals may occur via dermal contact, ingestion, or inhalation of COPCs present in soil and/or soil gas at the site;
- **Evaluation of Exposure to COPCs and Exposure Point Concentrations:** Identification of contaminants found in media at the site and determination of appropriate exposure point concentrations (EPCs)¹ for COPCs;
- **Evaluation of Chemical Toxicity:** Assessment of potential adverse effects of the COPCs and compilation of non-carcinogenic and carcinogenic toxicity values for use in numerical risk estimates; and
- **Risk Characterization:** Integration of results of the hazard assessment to provide a quantitative estimation of non-carcinogenic and carcinogenic risks.

Default exposure parameters from the DTSC and the United States Environmental Protection Agency (USEPA) were utilized to represent a Reasonable Maximum Exposure (RME) scenario. An RME scenario is the highest exposure that is reasonably expected to occur at a site. The HHSE evaluates current exposure to indoor air at the site.

¹ Exposure point concentrations are the representative concentration for each contaminant.

2. Background

The Community is located in the unincorporated area of East Los Angeles, Los Angeles County, California (Figure 1). The Community is zoned as R1/R2 LMD (One- or Two-Family Low/Medium Density Residential – 17 dwelling units/acre) according to the East Los Angeles Community Plan (Los Angeles County Department of Regional Planning, 2014). The Community comprises approximately 150 residential parcels, 23 of which were included in this investigation. The Community is bounded to the north by East City Terrace Drive, to the west by North Eastern Avenue, to the south by Hauck Street, and to the east by Rollins Drive/Sheriff Road.

The San Bernardino (Interstate 10) Freeway and the Long Beach (Interstate 710) Freeway are each located approximately 0.20 miles from the Community at their closest approach. City Terrace Elementary School is located directly adjacent to the Community at the corner of North Eastern Avenue and East City Terrace Drive. There are two nearby gasoline service stations (Chevron and Exxon Mobil) located in the vicinity, approximately 1,000 feet to the north-northwest of the Community. Two historical landfills, the former Cogen Landfill and the former Blanchard Landfill, both of which ceased operations in 1958, are located to the southeast of the Community. The former Cogen Landfill is located directly southeast of the Community and the former Blanchard Landfill is located approximately 1,000 further to the south.

2.1 Soil Gas and Ambient/Outdoor Air Sampling - 2021

In 2021, soil gas sampling and ambient/outdoor air sampling activities were conducted at 29 locations within the Community by consultant Citadel at the direction of the County. A total of 67 soil gas samples and 26 ambient/outdoor air samples were collected and analyzed in the vicinity of 27 residential properties and two additional locations in an alleyway. The results of the investigation identified elevated concentrations of volatile organic compounds (VOCs), particularly benzene, in soil gas.

2.2 Soil Gas, Indoor Air and Ambient/Outdoor Air Sampling - 2023

Due to elevated detections of VOCs, particularly benzene, in soil gas identified as part of Citadel's CHHRA, the County retained Roux to investigate soil gas, indoor air, and ambient/outdoor air concentrations at 27 residential properties in the Community that were previously investigated by Citadel. The County made access requests for all 27 previously sampled residential properties; however, four of the residents declined the additional sampling. Each residential property was assigned a unique ID corresponding to the ID used by Citadel in 2021. Investigation activities provided information about soil gas, ambient/outdoor air, and indoor air as discussed in the *Soil Gas and Indoor Air Sampling Report*, to which this HHSE is attached. The field activities included the collection of soil gas, ambient/outdoor air, and indoor air data between February 20 and April 5, 2023.

A total of 46 temporary single-nested soil gas probes were installed, with two soil gas probes installed at each of the 23 residential properties. Over the course of the investigation, Roux collected a total of 51 soil gas samples (46 primary and five duplicate) from the 46 soil gas probes. All soil gas samples were analyzed for VOCs using United States Environmental Protection Agency (USEPA) Method TO-15 (SCAN).

Roux collected a total of 52 indoor air samples (46 primary and six duplicate) and 25 ambient/outdoor air samples (23 primary and two duplicate). Two primary indoor air samples and one ambient/outdoor air sample were collected in each of the 23 residential properties. Indoor and ambient/outdoor air sampling was conducted in accordance with the *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air* (Vapor Intrusion Guidance; Cal/EPA and DTSC, 2011). The samples were analyzed

for VOCs using USEPA Method TO-15 (SIM) and USEPA Method TO-15 (SCAN) and methane using ASTM Method D1946. Indoor air samples were collected over a 24-hour period inside each residential property at a height of three to five feet above ground surface. The samples were collected from two different rooms in each residential property, co-located to the two soil gas probe sampling locations, where possible. An ambient/outdoor air sample was also collected concurrently outside of each residential property to establish background conditions.

3. Exposure Pathways and Media of Concern

Exposure pathways describe the course a chemical or physical agent takes from the source to the receptor (USEPA, 1989). Four components must be present for an exposure pathway to be complete:

- A primary source and mechanism of chemical release;
- A secondary source or transport medium (or media);
- A point of potential human contact with the contaminated medium (i.e., an exposure point); and
- An exposure route (e.g., ingestion, dermal contact, or inhalation).

Current residential scenarios were evaluated in the HHSE. As discussed below, points of potential current human contact are limited to indoor air.

3.1 Indoor Air Pathway

VOCs have been detected in the Community in soil gas, indoor air, and ambient/outdoor air samples. Residential buildings within the Community were sampled for indoor air to evaluate the potential for a complete exposure pathway from the subsurface. The current residential use of the existing buildings is quantitatively evaluated in this HHSE.

3.2 Exposure Pathway Analysis

The current use and future intended use of the evaluated properties in the Community is residential. Therefore, the conceptual site model (CSM) presented below illustrates potentially complete exposure pathways in the Community:

Primary Source	Secondary Source	Exposure Media	Exposure Route	Receptor
Potential Offsite Releases	Impacted Onsite Vadose Zone Soil Gas	Indoor Air	Inhalation	Current residents
	Impacted Onsite Ambient/Outdoor Air	Indoor Air	Inhalation	Current residents

Other potential sources of chemicals in indoor air include off-gassing building materials, chemicals from products used in hobbies, smoking, and household cleaning products. The HHSE was limited to an evaluation of current residents, future residential exposure was not evaluated.

4 Exposure Concentrations and Chemicals

All samples of paired soil gas, indoor air, and ambient/outdoor air sampling data were utilized in this HHSE. This included samples collected by Roux in 2023. 2021 samples of ambient/outdoor air and soil gas were not paired with indoor air and thus were not included in this HHSE. A summary of data utilized in the screening evaluation is provided in Appendix D of the *Soil Gas and Indoor Air Sampling Report* (to which this HHSE is attached).

Exposure point concentrations (EPCs), the representative concentration for each contaminant, determined to be from each media were developed consistent with DTSC guidance.

4.1 Indoor Air

Indoor air EPCs were developed separately for each property. The maximum detected concentration, from the two indoor air sampling points, for each COPC on each property was identified as the EPC. USEPA Method TO-15 (SCAN) analyzes a larger suite of analytes to a higher reporting limit than TO-15 (SIM). For any compound reported by both USEPA Method TO-15 (SCAN) and (SIM), the result from the USEPA Method TO-15 (SIM) was utilized. The COPCs in indoor air across the Community include the analytes listed in the following table.

Indoor Air COPCs		
1,1,1-Trichloroethane	Carbon tetrachloride	Methyl isobutyl ketone
1,1,2-Trichloro-1,2,2-trifluoroethane	Chloroform	Methylene chloride
1,1-Difluoroethane	Chloromethane	n-Heptane
1,2,4-Trimethylbenzene	Cyclohexane	Styrene
1,2-Dichloroethane	Dichlorodifluoromethane	Tetrachloroethene
1,3,5-Trimethylbenzene	Ethanol	Tetrahydrofuran
1,3-Butadiene	Ethyl acetate	Toluene
1,4-Dichlorobenzene	Ethylbenzene	Total Xylenes
1-Ethyl-4-methylbenzene	Hexane	Trichloroethene
Acetone	Isopropyl alcohol	Trichlorofluoromethane
Benzene	Methane (CH ₄)	Vinyl acetate
Carbon disulfide	Methyl ethyl ketone	

EPCs for indoor air are summarized by property in Table 1.

4.2 Ambient/Outdoor Air

Ambient/outdoor air EPCs were developed for the Community. The maximum detected concentration for each COPC was identified as the EPC. The COPCs in ambient/outdoor air across the Community include the analytes listed in the following table. Ambient/outdoor air results can be used to evaluate whether detections in indoor air could be the result of infiltration of COPCs from ambient/outdoor air (DTSC, 2023).

This HHSE focused on current residential risk, and because current residential risk estimates exceeded relevant thresholds for all residential properties, ambient/outdoor air EPCs were used as a line of evidence for indoor air source attribution. USEPA Method TO-15 (SCAN) analyzes a larger suite of analytes to a higher reporting limit than TO-15 (SIM). For any compound reported by both USEPA Method TO-15 (SCAN) and (SIM), the result from the USEPA Method TO-15 (SIM) was utilized. Compounds only detected by the USEPA Method TO-15 (SCAN) utilized values from USEPA Method TO-15 (SCAN).

Ambient/Outdoor Air COPCs		
1,1,2-Trichloro-1,2,2-trifluoroethane	Chloromethane	Isopropyl alcohol
1,1-Difluoroethane	Cyclohexane	Methane (CH ₄)
1,2,4-Trimethylbenzene	Dichlorodifluoromethane	Methyl ethyl ketone
1-Ethyl-4-methylbenzene	Ethanol	n-Heptane
Acetone	Ethyl acetate	Toluene
Benzene	Ethylbenzene	Total Xylenes
Carbon disulfide	Hexane	Trichlorofluoromethane

EPCs for ambient/outdoor air are found in Table 2.

4.3 Soil Gas

Soil gas samples were collected at five feet bgs during soil gas sampling events. The COPCs identified in soil gas across the Community include the analytes listed in the following table.

Soil Gas COPCs		
1-Ethyl-4-methylbenzene	Chloromethane	Methyl t-butyl ether
1,1-Difluoroethane	Cyclohexane	n-Heptane
1,2-Dibromoethane	Dichlorodifluoromethane	Propylene
1,2-Dichloroethane	Ethanol	Styrene
1,2,4-Trimethylbenzene	Ethyl acetate	Tetrachloroethene
1,3,5-Trimethylbenzene	Ethylbenzene	Tetrahydrofuran
Acetone	Hexane	Toluene
Benzene	Isopropyl alcohol	Total xylenes
Carbon disulfide	Methyl ethyl ketone	Trichloroethene
Chloroform	Methyl isobutyl ketone	Trichlorofluoromethane

Soil gas sampling results may be used to estimate future indoor air concentrations from vapor intrusion (DTSC, 2023). However, soil gas sampling cannot predict contributions to indoor air quality from other sources (e.g., consumer product usage, chemical usage, or ambient/outdoor air infiltration). If indoor air concentrations are higher than would be predicted by soil gas concentrations, risk assessors may conclude that the indoor air COPCs are from indoor or ambient/outdoor air sources, not the subsurface (DTSC, 2023).

Soil gas sampling results were used to estimate vapor intrusion-attributable EPCs for current exposure scenarios as a line of evidence for indoor air source attribution.

Potential vapor intrusion-attributable indoor air concentrations, may be calculated from soil gas concentrations described above using methodology described in DTSC's PEA Guidance (DTSC, 2015) and DTSC's Vapor Intrusion Guidance (DTSC, 2011):

$$C_{\text{indoor}} = \alpha \times C_{\text{soil gas}}$$

Where:

C_{indoor} = Indoor air concentration in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

α = Attenuation factor

$C_{\text{soil gas}}$ = Soil gas air concentration in $\mu\text{g}/\text{m}^3$

An attenuation factor of 0.03 (DTSC, 2023) was used to estimate vapor intrusion-attributable EPCs as a line of evidence for indoor air source attribution.

5. Human Health Screening Levels

To evaluate current residential exposures, screening values for non-carcinogenic and carcinogenic effects were utilized in the HHSE as follows:

- Indoor Air:** DTSC's PEA Guidance (DTSC, 2015), DTSC HHRA Note 3 (DTSC, 2022a) values were utilized for the indoor air evaluation. If no value was provided in DTSC HHRA Note 3, USEPA May 2023 RSLs were utilized. If no value was provided in the DTSC HHRA Note 3 and the USEPA May 2023 RSLs, the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) direct-exposure health-risk-based Environmental Screening Levels (ESLs) were utilized.

Screening values for residential exposure to indoor air are shown in the table below.

Indoor Air COPC	Cancer Screening Level	Non-Cancer Screening Level	Screening Level Source
Acetone	NS	3.2E+04	SFBRWQCB ESLs
Benzene	9.7E-02	3.1E+00	DTSC Note 3
1,3-Butadiene	1.7E-02	2.1E+00	DTSC Note 3
Carbon disulfide	NS	7.3E+02	EPA RSLs
Carbon tetrachloride	4.7E-01	4.2E+01	DTSC Note 3
Chloroform	1.2E-01	1.0E+02	EPA RSLs
Chloromethane	NS	9.4E+01	EPA RSLs
Cyclohexane	NS	6.3E+03	EPA RSLs
1,4-Dichlorobenzene	2.6E-01	8.3E+02	EPA RSLs
Dichlorodifluoromethane	NS	1.0E+02	EPA RSLs
1,2-Dichloroethane	1.1E-01	7.3E+00	EPA RSLs
1,1-Difluoroethane	NS	4.2E+04	EPA RSLs
Ethanol	NS	NS	NS
1-Ethyl-4-methylbenzene	NS	NS	NS
Ethyl acetate	NS	7.3E+01	EPA RSLs
Ethylbenzene	1.1E+00	1.0E+03	EPA RSLs
Tetrahydrofuran	NS	2.1E+03	EPA RSLs
n-Heptane	NS	4.2E+02	EPA RSLs
Hexane	NS	7.3E+02	EPA RSLs
Isopropyl alcohol	NS	2.1E+02	EPA RSLs
Methane	NS	NS	NS
Methyl ethyl ketone	NS	5.2E+03	EPA RSLs
Methyl isobutyl ketone	NS	3.1E+03	EPA RSLs
Methylene chloride	1.0E+00	4.2E+02	DTSC Note 3
Styrene	NS	9.4E+02	DTSC Note 3
Tetrachloroethene	4.6E-01	4.2E+01	DTSC Note 3
Toluene	NS	3.1E+02	DTSC Note 3
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	5.2E+03	EPA RSLs
1,1,1-Trichloroethane	NS	1.0E+03	DTSC Note 3

Indoor Air COPC	Cancer Screening Level	Non-Cancer Screening Level	Screening Level Source
Trichloroethene	4.8E-01	2.1E+00	EPA RSLs
Trichlorofluoromethane	NS	1.3E+03	DTSC Note 3
1,2,4-Trimethylbenzene	NS	6.3E+01	EPA RSLs
1,3,5-Trimethylbenzene	NS	6.3E+01	EPA RSLs
Vinyl acetate	NS	2.1E+02	EPA RSLs
Total xylenes	NS	1.0E+02	EPA RSLs

1. NS = no screening value available
2. Only compounds detected in indoor air across the Community are shown in the table above.
3. Screening levels are shown in $\mu\text{g}/\text{m}^3$.

6. Toxicity Values

The toxicity assessment describes the quantitative relationship between the extent of exposure to a contaminant and the increased likelihood and/or severity of adverse effects. This quantitative relationship generally takes the form of toxicity values that are identified for use in risk evaluations. Toxicity values are used to quantify the chance of observing cancer or non-cancer effects in exposed receptors. Toxicity values may be based on epidemiological studies or animal studies.

DTSC's screening levels were calculated based on HHRA Note 10 values, USEPA RSLs (USEPA, 2023) were based on toxicity values described in the May 2023 RSL tables and the SFBRWQCB ESLs were calculated from the values shown in the 2019 ESL Workbook (SFBRWQCB, 2019).

6.1 Toxicity Information for Non-Carcinogenic Effects

In assessing the potential for non-cancer health effects, USEPA assumes there is a toxicological threshold below which no adverse health effects are observable (USEPA, 1993). These toxicological thresholds are represented by reference doses (RfDs) for oral exposures and reference concentrations (RfCs) for inhalation exposures. The RfDs and RfCs are estimates (with uncertainty spanning, in some cases, an order of magnitude) of daily exposures to the human population (including sensitive subgroups) that are likely to be without an appreciable risk of deleterious effects during a lifetime. USEPA derives RfDs and RfCs using a standardized approach, considering available information from human and animal studies, which establish the levels below which toxicological effects are not observed and the uncertainties inherent in the available information (USEPA, 1993).

6.2 Toxicity Information for Carcinogenic Effects

USEPA uses a two-part evaluation in assessing potentially carcinogenic substances. In the first part, a chemical is assigned a weight-of-evidence classification, which reflects USEPA's assessment of the likelihood that the chemical is a human carcinogen. For chemicals that are classified as possible, probable, or known human carcinogens, USEPA calculates a cancer slope factor (CSF) for oral exposures and an inhalation unit risk (IUR) for inhalation exposures when sufficient information is available to support the calculation. USEPA guidance indicates that a linear, no-threshold dose-response model is appropriate for carcinogenic risk assessment (USEPA, 2005). An extremely low level of exposure to a carcinogen may result in chromosomal or enzyme changes leading to cancer. Therefore, USEPA does not generally estimate thresholds for carcinogens. CSF or IURs are used to estimate the probability of a cancer effect occurring in a receptor exposed over their lifetime.

7. Risk Characterization Summary

The risk characterization process integrates the results of the data evaluation, exposure assessment, and toxicity assessment to provide a quantitative estimation of cumulative non-carcinogenic hazard and carcinogenic risk for residential exposure for each residential property in the Community. A cumulative risk calculation represents the cumulative cancer and cumulative non-cancer impact that the subject site has on a particular receptor, and accounts for exposures that a receptor could receive from multiple chemicals and exposure pathways.

The measure used to describe the potential for noncarcinogenic health effects is the Hazard Index (HI). An HI is the ratio of a receptor's exposure level (or dose) to the "acceptable" (or allowable) exposure level (i.e., the reference dose or concentration). An HI of 1 or less indicates that the receptor's exposure is equal to or less than the allowable exposure level, and that it is unlikely that adverse health effects will occur. An HI greater than 1 indicates that the receptor's exposure is greater than the allowable exposure level, and that adverse health effects may occur.

The potential for cancer effects is characterized as the Incremental Lifetime Cancer Risk (ILCR). The ILCR represents the incremental probability of an individual developing cancer over a lifetime as a result of exposure to the potential carcinogen. For a given chemical, the ILCR is the product of the receptor's quantified exposure and the carcinogenic potency of the chemical.

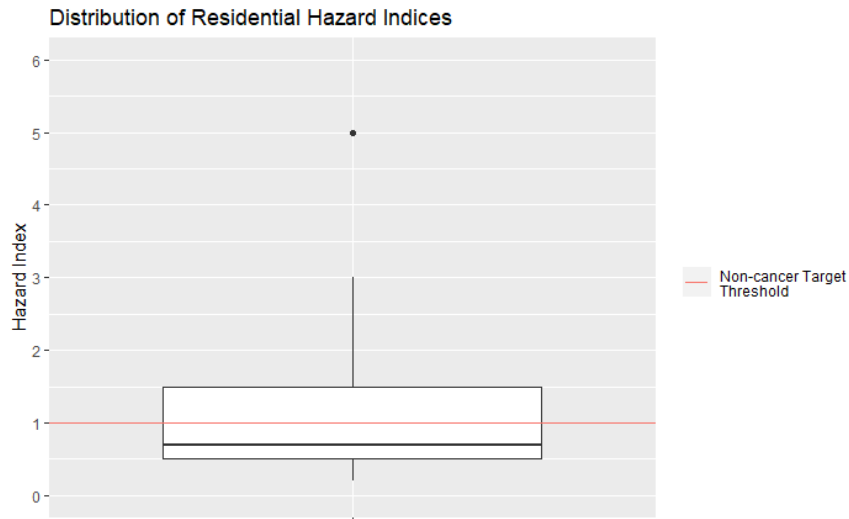
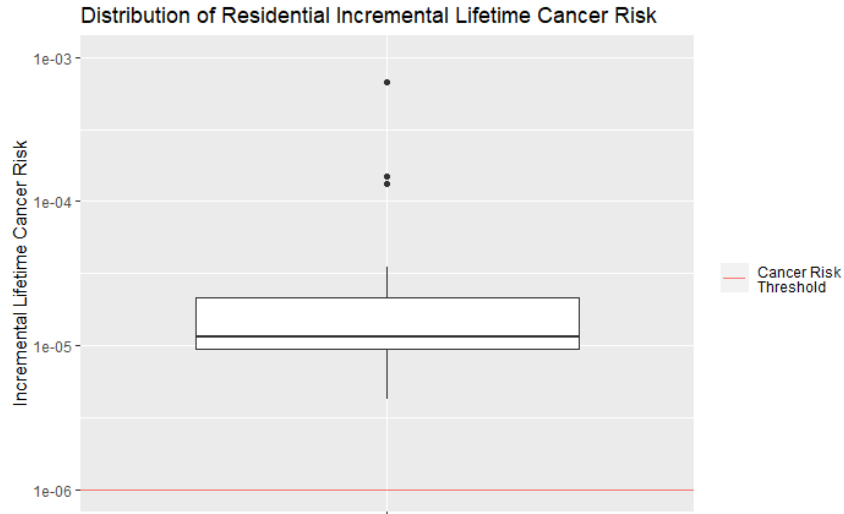
The quantitative estimation of cumulative non-carcinogenic hazard and carcinogenic risk for residential exposure to indoor air for each residential property in the Community is summarized in the text and tables below and in Table 3.

Indoor Air Community Wide Cumulative Cancer Risks and Non-Cancer Hazard Summary

	Estimated Cancer Risk (ILCR)	Exceed Risk Threshold of 1E-06?	Estimated Non-Cancer Hazard (HI)	Exceed Hazard Threshold of 1?
17 Residential Properties	4E-06 to 1E-04	Yes	2E-01 to 1E+00	No
6 Residential Properties	9E-06 to 7E-04	Yes	2E+00 to 5E+00	Yes

* All 23 residential properties exceeded the low end ILCR threshold of 1E-06, and therefore results are stratified based on HI exceedances.

The distribution of residential indoor air cancer risk and non-cancer hazard estimates is also shown in the following figures.



7.1 Property Specific Cumulative Risk Summary

All of the residential properties sampled had a cumulative cancer risk estimate for a current residential exposure scenario that exceeded the cancer risk threshold of 1E-06. For 17 of the 23 residential properties, the non-cancer hazard estimate is below the non-cancer hazard target threshold of 1. For six of the 23 residential properties, the non-cancer hazard estimate exceeds the non-cancer hazard target threshold of 1. The following describes the non-cancer hazard threshold exceedance at each of these six residential properties:

- Residential Property 11** – No individual COPC exceeded its non-carcinogenic screening level; however, benzene was detected in indoor air at a concentration of 2.5 $\mu\text{g}/\text{m}^3$, which approached the DTSC non-cancer screening level of 3.1 $\mu\text{g}/\text{m}^3$, and multiple additional COPCs contributed relatively small levels of additional hazard that caused the hazard estimate to exceed the non-cancer hazard target threshold of 1. The indoor air concentration of benzene was greater than the associated ambient/outdoor air concentration of 0.88 $\mu\text{g}/\text{m}^3$ at this residential property. The indoor air concentration of benzene was also greater than what would be predicted by the most conservative estimate of soil vapor intrusion (a soil gas concentration of 3.2 $\mu\text{g}/\text{m}^3$ yields an

estimated indoor air concentration from soil vapor intrusion of 0.096 $\mu\text{g}/\text{m}^3$). Therefore, the presence of elevated benzene in indoor air may be attributable to a confounding source within the residential property (i.e., cleaning products, paint, detergents).

- **Residential Property 23** – Isopropyl alcohol was detected in indoor air at a concentration of 990 $\mu\text{g}/\text{m}^3$, which exceeded the EPA non-cancer screening level of 210 $\mu\text{g}/\text{m}^3$. This indoor air concentration of isopropyl alcohol was greater than the associated ambient/outdoor air concentration of 3.5 $\mu\text{g}/\text{m}^3$ at this residential property. The indoor air concentration of isopropyl alcohol was also greater than what would be predicted by the most conservative estimate of soil vapor intrusion (a soil gas concentration of 45 $\mu\text{g}/\text{m}^3$ yields an estimated indoor air concentration from soil vapor intrusion of 1.35 $\mu\text{g}/\text{m}^3$). Therefore, the presence of elevated isopropyl alcohol in indoor air may be attributable to a confounding source within the residential property (i.e., personal care products, solvent, cleaning products).
- **Residential Property 24** – Isopropyl alcohol was detected in indoor air at a concentration of 420 $\mu\text{g}/\text{m}^3$, which exceeded the EPA non-cancer screening level of 210 $\mu\text{g}/\text{m}^3$. This indoor air concentration of isopropyl alcohol was greater than the associated ambient/outdoor air concentration of 1.9 $\mu\text{g}/\text{m}^3$ at this residential property. The indoor air concentration of isopropyl alcohol was also greater than what would be predicted by the most conservative estimate of soil vapor intrusion (a soil gas concentration of 16 $\mu\text{g}/\text{m}^3$ yields an estimated indoor air concentration from soil vapor intrusion of 0.48 $\mu\text{g}/\text{m}^3$). Therefore, the presence of elevated isopropyl alcohol in indoor air may be attributable to a confounding source within the residential property (i.e., cleaning products, paint, detergents).
- **Residential Property 33** – Benzene was detected in indoor air at a concentration of 4.8 $\mu\text{g}/\text{m}^3$, which exceeded the DTSC non-cancer screening level of 3.1 $\mu\text{g}/\text{m}^3$. This indoor air concentration of benzene was greater than the ambient/outdoor air concentration of 0.7 $\mu\text{g}/\text{m}^3$ at this residential property. The indoor air concentration of benzene was also greater than what would be predicted by the most conservative estimate of soil vapor intrusion (a soil gas concentration of 6 $\mu\text{g}/\text{m}^3$ yields an estimated indoor air concentration from soil vapor intrusion of 0.18 $\mu\text{g}/\text{m}^3$). Therefore, the presence of elevated benzene in indoor air may be attributable to a confounding source within the residential property (i.e., cleaning products, paint, detergents).
- **Residential Property 37** – Isopropyl alcohol was detected in indoor air at a concentration of 480 $\mu\text{g}/\text{m}^3$, which exceeded the EPA non-cancer screening level of 210 $\mu\text{g}/\text{m}^3$. This indoor air concentration of isopropyl alcohol was greater than the ambient/outdoor air concentration of 4.2 $\mu\text{g}/\text{m}^3$ at this residential property. The indoor air concentration of isopropyl alcohol was also greater than what would be estimated by the most conservative estimate of soil vapor intrusion (a soil gas concentration of 17 $\mu\text{g}/\text{m}^3$ yields an estimated indoor air concentration from soil vapor intrusion of 0.51 $\mu\text{g}/\text{m}^3$). Therefore, the presence of elevated isopropyl alcohol in indoor air may be attributable to a confounding source within the residential property (i.e., cleaning products, paint, detergents).
- **Residential Property 17** – The non-cancer hazard did not exceed 1 for any individual COPC, although isopropyl alcohol was detected at a concentration of 290 $\mu\text{g}/\text{m}^3$, slightly greater than the EPA non-cancer screening level of 210 $\mu\text{g}/\text{m}^3$. Multiple additional COPCs contributed relatively small levels of additional hazard that caused the hazard estimate to exceed the non-cancer hazard target threshold of 1. This indoor air concentration of isopropyl alcohol was greater than the ambient/outdoor air concentration of 2.2 $\mu\text{g}/\text{m}^3$ at this residential property. The indoor air concentration of isopropyl alcohol was also greater than what would be predicted by the most conservative estimate of soil vapor intrusion (a soil gas concentration of 14 $\mu\text{g}/\text{m}^3$ yields a predicted indoor air concentration from soil vapor intrusion of 0.42 $\mu\text{g}/\text{m}^3$). Therefore, the presence of elevated isopropyl alcohol in indoor air may be attributable to a confounding source within the residential property (i.e., cleaning products, paint, detergents).

For one of the 23 residential properties, the cumulative cancer risk estimate for the current residential exposure scenarios was significantly elevated compared to other residential properties. The following describes the cancer threshold exceedance at this residential property:

- Residential Property 17** – At this property 1,4-dichlorobenzene was detected in indoor air at a concentration of 170 $\mu\text{g}/\text{m}^3$, which exceeded the EPA cancer screening level of 0.26 $\mu\text{g}/\text{m}^3$ by more than a factor of 100. 1,4-dichlorobenzene was not detected in ambient/outdoor air or soil vapor at this residential property or in the ambient/outdoor air or soil vapor in any samples within the Community. Therefore, the presence of elevated 1,4-dichlorobenzene in indoor air is likely attributable to a confounding source within the residential property (i.e., cleaning products, paint, detergents).

Risk estimate calculations by property are provided in Attachment 1.

7.2 Ambient/Outdoor Air and Indoor Air Relationship

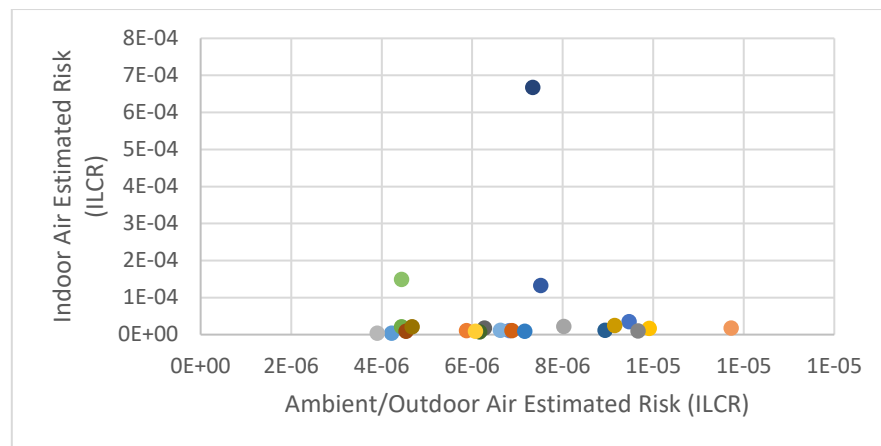
A quantitative estimation of cumulative non-carcinogenic hazard and carcinogenic risk for residential exposure to ambient/outdoor air for each residential property in the Community is summarized in the text and tables below and in Table 4.

Ambient/Outdoor Air Community Wide Cumulative Cancer Risk and Non-Cancer Hazard Summary

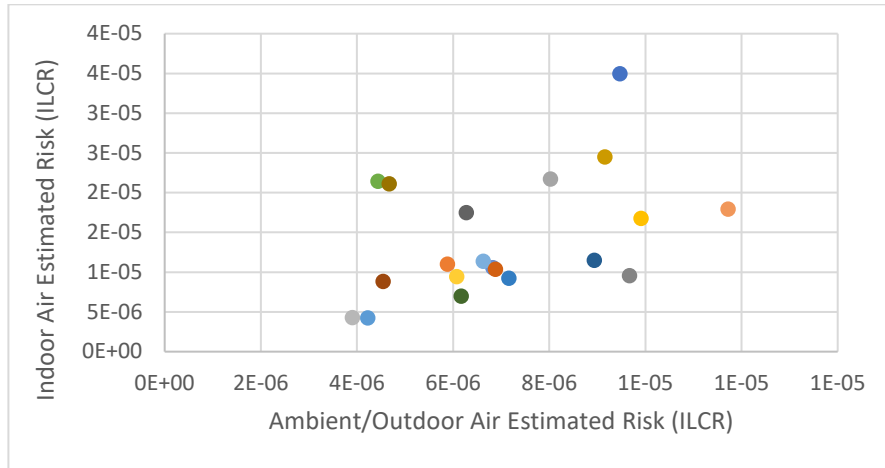
	Estimated Cancer Risk (ICLR)	Exceed Risk Threshold of 1E-06?	Estimated Non-Cancer Hazard (HI)	Exceed Hazard Threshold of 1?
23 Residential Properties	4E-06 to 1E-05	Yes	2E-01 to 4E-1	No

Plots showing the cumulative estimated cancer risk in indoor air versus ambient/outdoor air at each property are shown in the charts below. Two versions of the graph are shown: one with all residential properties and one limiting the indoor air axis to better show the relationship between indoor and ambient/outdoor air for residential properties with lower estimated indoor air risk.

Cumulative Cancer Relationship between Indoor Air and Ambient/Outdoor Air (All Residential Properties)



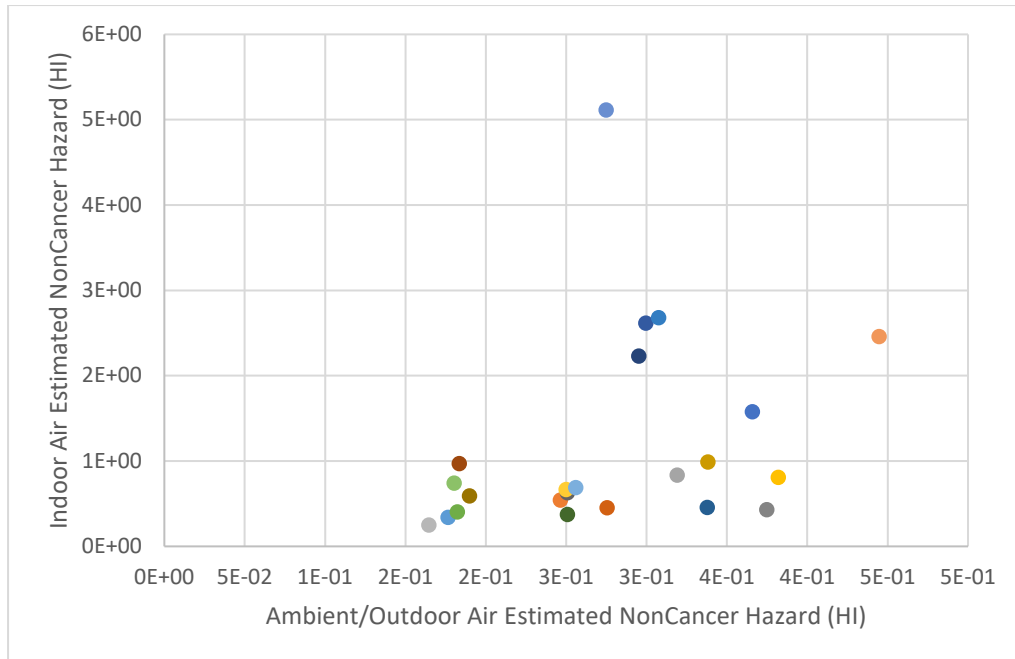
Cumulative Cancer Relationship between Indoor Air and Ambient/Outdoor Air (Limited Indoor Air Axis*)



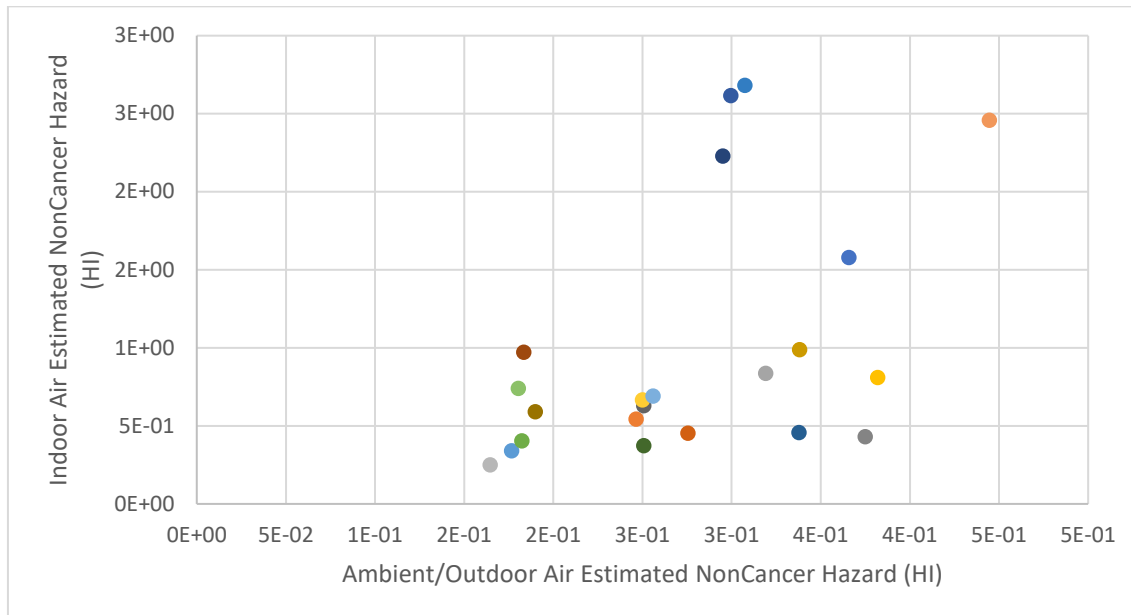
*The limited indoor air axis excludes Residential Properties 17, 29, and 33.

Plots showing the cumulative estimated non-cancer hazard in indoor air versus ambient/outdoor air at each property are shown in the charts below. Two versions of the graph are shown: one with all residential properties and one limiting the indoor air axis to better show the relationship between indoor and ambient/outdoor air for residential properties with lower estimated indoor air risk.

Cumulative Non-Cancer Relationship between Indoor Air and Ambient/Outdoor Air (All Residential Properties)



Cumulative Non-Cancer Relationship between Indoor Air and Ambient/Outdoor Air (Limited Indoor Air Axis*)



* The limited indoor air axis excludes Residential Property 23.

Indoor air cancer risk and noncancer hazard exceeds or is equal to the ambient/outdoor air cancer risk and non-cancer hazard for all properties. The ambient/outdoor air cancer risk exceeds the 1E-06 risk threshold for all properties.

7.3 Uncertainty

Risk and hazard estimates from this screening evaluation do not represent absolute estimates at a specific residential property because environmental regulators use conservative generic exposure assumptions (number of days exposed per year [350 days per year], number of hours spent at home [24 hours per day] and total time of exposure for averaging purposes [26 years, for non-cancer calculations, and 70 years for cancer calculations]) for residential land use in the development of screening values. The numerical estimates in the HHSE have uncertainties reflecting inherent limitations in appropriately characterizing residential conditions and exposure assumptions. Overall, ILCRs and HIs presented in the HHSE are based upon conservative assumptions that are intended to be protective of human health by likely overestimating exposure to account for parameter uncertainty (RME exposure scenario). Therefore, the results presented in this HHSE are conservative and biased high.

Use of maximum concentrations (as described in Section 4 of the report) as EPCs for indoor air within each residential property likely overestimates the actual risk encountered. Reliance on sampling from one season and one sampling event may not reflect conditions in other seasons or over time. Variations in weather conditions and ventilation across seasons may affect VOC concentrations in residential properties (USEPA, 2012). Nevertheless, collection of samples during the cool season (i.e., March) likely provides conservative estimates of indoor air exposure as indoor air concentrations are typically higher in the cool season due to heating of buildings drawing soil gas into the building, closure of windows/doors and higher ambient/outdoor air concentrations.

Indoor air measurements do not reflect concentrations that are due to any one source. Rather, indoor air measurements reflect exposures to multiple sources, including consumer products, chemical usage, building materials, vapor intrusion, and ambient/outdoor air (DTSC, 2023). However, in the six residential properties that exceeded either the cancer risk management threshold or the non-cancer target hazard threshold, risk and hazard were not expected to be due to ambient/outdoor air infiltration or vapor intrusion because paired ambient/outdoor air samples and soil gas samples did not explain the levels of detection seen in the indoor air samples. These lines of evidence suggest that the risk and hazard threshold exceedances in these residential properties were due to indoor sources (i.e., consumer products, chemical usage, or building materials). This HHSE was limited to an evaluation of current residential risk. Risk threshold exceedances identified were likely due to indoor and ambient/outdoor sources (rather than vapor intrusion).

No screening levels or toxicity values were provided in DTSC HHRA Note 3, DTSC HHRA Note 10, USEPA 2023 RSLs or SFBRWQCB ESLs for ethanol, 1-ethyl-4-methylbenzene, and methane. Therefore, these compounds were not quantitatively evaluated in the HHSE. These omissions are considered areas of uncertainty in the HHSE. However, given adoption of numerous conservative assumptions, this uncertainty is not considered to impact conclusions of the HHSE.

8. References

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- USEPA, 2023. May 2023 Regional Screening Levels. Accessed at: <https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>

Limited Human Health Screening Evaluation
City Terrace, East Los Angeles, California

TABLES

1. Summary of Indoor Air EPCs
2. Summary of Ambient/Outdoor Air EPCs
3. Cumulative Indoor Air Risk Estimates by Property
4. Cumulative Ambient/Outdoor Air Risk Estimates by Property

Table 3: Cumulative Indoor Air Estimated Cancer Risk and Non-Cancer Hazard By Property
 City Terrace Community, East Los Angeles, California

Property ID	Estimated Cancer Risk (ILCR)	Exceed Risk Threshold of 1E-06?	Estimated Non-Cancer Risk (HI)	Exceed Risk Threshold of 1?
Residence 11	3E-05	Exceeds	2E+00	Exceeds
Residence 12	1E-05	Exceeds	5E-01	Does Not Exceed
Residence 13	2E-05	Exceeds	8E-01	Does Not Exceed
Residence 14	2E-05	Exceeds	8E-01	Does Not Exceed
Residence 15	4E-06	Exceeds	3E-01	Does Not Exceed
Residence 16	2E-05	Exceeds	4E-01	Does Not Exceed
Residence 17	7E-04	Exceeds	2E+00	Exceeds
Residence 18	9E-06	Exceeds	1E+00	Does Not Exceed
Residence 19	2E-05	Exceeds	6E-01	Does Not Exceed
Residence 20	2E-05	Exceeds	6E-01	Does Not Exceed
Residence 21	1E-05	Exceeds	5E-01	Does Not Exceed
Residence 22	7E-06	Exceeds	4E-01	Does Not Exceed
Residence 23	1E-05	Exceeds	5E+00	Exceeds
Residence 24	2E-05	Exceeds	2E+00	Exceeds
Residence 25	4E-06	Exceeds	2E-01	Does Not Exceed
Residence 26	9E-06	Exceeds	7E-01	Does Not Exceed
Residence 28	1E-05	Exceeds	7E-01	Does Not Exceed
Residence 29	1E-04	Exceeds	7E-01	Does Not Exceed
Residence 33	1E-04	Exceeds	3E+00	Exceeds
Residence 34	1E-05	Exceeds	5E-01	Does Not Exceed
Residence 35	1E-05	Exceeds	4E-01	Does Not Exceed
Residence 36	2E-05	Exceeds	1E+00	Does Not Exceed
Residence 37	9E-06	Exceeds	3E+00	Exceeds

Table 4: Cumulative Ambient/Outdoor Air Estimated Cancer Risk and Non-Cancer Hazard By Property
 City Terrace Community, East Los Angeles, California

Property ID	Estimated Cancer Risk (ILCR)	Exceed Risk Threshold of 1E-06 to 1E-04?	Exceed Risk Threshold of 1E-06?	Estimated Non-Cancer Hazard (HI)	Exceed Risk Threshold of 1?
Residence 11	9E-06	Risk Management Range	Exceeds	4E-01	Does Not Exceed
Residence 12	6E-06	Risk Management Range	Exceeds	2E-01	Does Not Exceed
Residence 13	8E-06	Risk Management Range	Exceeds	3E-01	Does Not Exceed
Residence 14	1E-05	Risk Management Range	Exceeds	4E-01	Does Not Exceed
Residence 15	4E-06	Risk Management Range	Exceeds	2E-01	Does Not Exceed
Residence 16	4E-06	Risk Management Range	Exceeds	2E-01	Does Not Exceed
Residence 17	7E-06	Risk Management Range	Exceeds	3E-01	Does Not Exceed
Residence 18	5E-06	Risk Management Range	Exceeds	2E-01	Does Not Exceed
Residence 19	6E-06	Risk Management Range	Exceeds	3E-01	Does Not Exceed
Residence 20	5E-06	Risk Management Range	Exceeds	2E-01	Does Not Exceed
Residence 21	9E-06	Risk Management Range	Exceeds	3E-01	Does Not Exceed
Residence 22	6E-06	Risk Management Range	Exceeds	3E-01	Does Not Exceed
Residence 23	7E-06	Risk Management Range	Exceeds	3E-01	Does Not Exceed
Residence 24	1E-05	Risk Management Range	Exceeds	4E-01	Does Not Exceed
Residence 25	4E-06	Risk Management Range	Exceeds	2E-01	Does Not Exceed
Residence 26	6E-06	Risk Management Range	Exceeds	3E-01	Does Not Exceed
Residence 28	7E-06	Risk Management Range	Exceeds	3E-01	Does Not Exceed
Residence 29	4E-06	Risk Management Range	Exceeds	2E-01	Does Not Exceed
Residence 33	8E-06	Risk Management Range	Exceeds	3E-01	Does Not Exceed
Residence 34	7E-06	Risk Management Range	Exceeds	3E-01	Does Not Exceed
Residence 35	1E-05	Risk Management Range	Exceeds	4E-01	Does Not Exceed
Residence 36	9E-06	Risk Management Range	Exceeds	3E-01	Does Not Exceed
Residence 37	7E-06	Risk Management Range	Exceeds	3E-01	Does Not Exceed

Limited Human Health Screening Evaluation
City Terrace, East Los Angeles, California

ATTACHMENT 1

Property Specific Risk Estimate Calculations

Summary of Outdoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 11

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Cancer Risk (ILCR)	
11	1,1-Difluoroethane	Outdoor Air	75-37-6	0.7	-	4.2E+04	-	2E-05
11	1,1,2-Trichloro-1,2,2-trifluoroethane	Outdoor Air	76-13-1	0.6	-	5.2E+03	-	1E-04
11	Acetone	Outdoor Air	67-64-1	5.4	-	3.2E+04	-	2E-04
11	Benzene	Outdoor Air	71-43-2	0.88	9.7E-02	3.1E+00	9E-06	3E-01
11	Chloromethane	Outdoor Air	74-87-3	1.2	-	9.4E+01	-	1E-02
11	Dichlorodifluoromethane	Outdoor Air	75-71-8	2.3	-	1.0E+02	-	2E-02
11	Ethanol	Outdoor Air	64-17-5	7.6	-	-	-	-
11	Ethylbenzene	Outdoor Air	100-41-4	0.44	1.1E+00	1.0E+03	4E-07	4E-04
11	Hexane	Outdoor Air	110-54-3	0.56	-	7.3E+02	-	8E-04
11	Isopropyl alcohol	Outdoor Air	67-63-0	3.7	-	2.1E+02	-	2E-02
11	Methane (CH ₄)	Outdoor Air	74-82-8	5.9	-	-	-	-
11	Methyl ethyl ketone	Outdoor Air	78-93-3	0.77	-	5.2E+03	-	1E-04
11	Toluene	Outdoor Air	108-88-3	1.8	-	3.1E+02	-	6E-03
11	Total Xylenes	Outdoor Air	1330-20-7	2	-	1.0E+02	-	2E-02
11	Trichlorofluoromethane	Outdoor Air	75-69-4	1.4	-	1.3E+03	-	1E-03
Cumulative:							9E-06	4E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)
2. - = no screening value

Summary of Indoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 11

PropertyID	Analyte	Type of Air			Cancer Screening	Non-Cancer Screening	Incremental	Hazard
		Sample	CAS Number	EPC ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	Index (HI)
11	1-Ethyl-4-methylbenzene	Indoor Air	622-96-8	4.8	-	-	-	-
11	1,1-Difluoroethane	Indoor Air	75-37-6	0.7	-	4.2E+04	-	2E-05
11	1,1,2-Trichloro-1,2,2-trifluoroethane	Indoor Air	76-13-1	0.6	-	5.2E+03	-	1E-04
11	1,2,4-Trimethylbenzene	Indoor Air	95-63-6	13	-	6.3E+01	-	2E-01
11	1,3,5-Trimethylbenzene	Indoor Air	108-67-8	3.5	-	6.3E+01	-	6E-02
11	Acetone	Indoor Air	67-64-1	36	-	3.2E+04	-	1E-03
11	Benzene	Indoor Air	71-43-2	2.5	9.7E-02	3.1E+00	3E-05	8E-01
11	Chloroform	Indoor Air	67-66-3	0.97	1.2E-01	1.0E+02	8E-06	1E-02
11	Chloromethane	Indoor Air	74-87-3	2.5	-	9.4E+01	-	3E-02
11	Dichlorodifluoromethane	Indoor Air	75-71-8	2.2	-	1.0E+02	-	2E-02
11	Ethanol	Indoor Air	64-17-5	48	-	-	-	-
11	Ethyl acetate	Indoor Air	141-78-6	16	-	7.3E+01	-	2E-01
11	Ethylbenzene	Indoor Air	100-41-4	1.2	1.1E+00	1.0E+03	1E-06	1E-03
11	Isopropyl alcohol	Indoor Air	67-63-0	30	-	2.1E+02	-	1E-01
11	Methane (CH ₄)	Indoor Air	74-82-8	54	-	-	-	-
11	Methyl ethyl ketone	Indoor Air	78-93-3	1.5	-	5.2E+03	-	3E-04
11	n-Heptane	Indoor Air	142-82-5	0.86	-	4.2E+02	-	2E-03
11	Styrene	Indoor Air	100-42-5	0.47	-	9.4E+02	-	5E-04
11	Toluene	Indoor Air	108-88-3	7.1	-	3.1E+02	-	2E-02
11	Total Xylenes	Indoor Air	1330-20-7	5.9	-	1.0E+02	-	6E-02
11	Trichlorofluoromethane	Indoor Air	75-69-4	1.7	-	1.3E+03	-	1E-03
Cumulative:							3E-05	2E+00

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)
2. - = no screening value

Summary of Outdoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 12

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	
12	1,1-Difluoroethane	Outdoor Air	75-37-6	0.51	-	4.2E+04	-	1E-05
12	1,1,2-Trichloro-1,2,2-trifluoroethane	Outdoor Air	76-13-1	0.62	-	5.2E+03	-	1E-04
12	Acetone	Outdoor Air	67-64-1	5.9	-	3.2E+04	-	2E-04
12	Benzene	Outdoor Air	71-43-2	0.55	9.7E-02	3.1E+00	6E-06	2E-01
12	Chloromethane	Outdoor Air	74-87-3	1.4	-	9.4E+01	-	1E-02
12	Dichlorodifluoromethane	Outdoor Air	75-71-8	2.6	-	1.0E+02	-	3E-02
12	Ethanol	Outdoor Air	64-17-5	5.7	-	-	-	-
12	Ethylbenzene	Outdoor Air	100-41-4	0.23	1.1E+00	1.0E+03	2E-07	2E-04
12	Isopropyl alcohol	Outdoor Air	67-63-0	2.3	-	2.1E+02	-	1E-02
12	Methane (CH ₄)	Outdoor Air	74-82-8	2.4	-	-	-	-
12	Toluene	Outdoor Air	108-88-3	1.1	-	3.1E+02	-	4E-03
12	Total Xylenes	Outdoor Air	1330-20-7	1.2	-	1.0E+02	-	1E-02
12	Trichlorofluoromethane	Outdoor Air	75-69-4	1.4	-	1.3E+03	-	1E-03
Cumulative:							6E-06	2E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Indoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 12

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	
12	1,1-Difluoroethane	Indoor Air	75-37-6	0.45	-	4.2E+04	-	1E-05
12	1,1,2-Trichloro-1,2,2-trifluoroethane	Indoor Air	76-13-1	0.58	-	5.2E+03	-	1E-04
12	Acetone	Indoor Air	67-64-1	28	-	3.2E+04	-	9E-04
12	Benzene	Indoor Air	71-43-2	0.8	9.7E-02	3.1E+00	8E-06	3E-01
12	Chloromethane	Indoor Air	74-87-3	1.6	-	9.4E+01	-	2E-02
12	Dichlorodifluoromethane	Indoor Air	75-71-8	3	-	1.0E+02	-	3E-02
12	Ethanol	Indoor Air	64-17-5	75	-	-	-	-
12	Ethyl acetate	Indoor Air	141-78-6	0.72	-	7.3E+01	-	1E-02
12	Ethylbenzene	Indoor Air	100-41-4	1.1	1.1E+00	1.0E+03	1E-06	1E-03
12	Isopropyl alcohol	Indoor Air	67-63-0	34	-	2.1E+02	-	2E-01
12	Methane (CH ₄)	Indoor Air	74-82-8	2.3	-	-	-	-
12	Methyl ethyl ketone	Indoor Air	78-93-3	1.5	-	5.2E+03	-	3E-04
12	Styrene	Indoor Air	100-42-5	0.51	-	9.4E+02	-	5E-04
12	Tetrachloroethene	Indoor Air	127-18-4	0.81	4.6E-01	4.2E+01	2E-06	2E-02
12	Toluene	Indoor Air	108-88-3	3.5	-	3.1E+02	-	1E-02
12	Total Xylenes	Indoor Air	1330-20-7	3.2	-	1.0E+02	-	3E-02
12	Trichlorofluoromethane	Indoor Air	75-69-4	1.3	-	1.3E+03	-	1E-03
Cumulative:							1E-05	5E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Outdoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 13

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	Index (HI)
13	1,1,2-Trichloro-1,2,2-trifluoroethane	Outdoor Air	76-13-1	0.61	-	5.2E+03	-	1E-04
13	Acetone	Outdoor Air	67-64-1	3.9	-	3.2E+04	-	1E-04
13	Benzene	Outdoor Air	71-43-2	0.75	9.7E-02	3.1E+00	8E-06	2E-01
13	Carbon disulfide	Outdoor Air	75-15-0	0.72	-	7.3E+02	-	1E-03
13	Chloromethane	Outdoor Air	74-87-3	1.3	-	9.4E+01	-	1E-02
13	Dichlorodifluoromethane	Outdoor Air	75-71-8	2.6	-	1.0E+02	-	3E-02
13	Ethanol	Outdoor Air	64-17-5	5.8	-	-	-	-
13	Ethylbenzene	Outdoor Air	100-41-4	0.32	1.1E+00	1.0E+03	3E-07	3E-04
13	Hexane	Outdoor Air	110-54-3	0.42	-	7.3E+02	-	6E-04
13	Isopropyl alcohol	Outdoor Air	67-63-0	3	-	2.1E+02	-	1E-02
13	Methane (CH ₄)	Outdoor Air	74-82-8	3.4	-	-	-	-
13	Toluene	Outdoor Air	108-88-3	1.5	-	3.1E+02	-	5E-03
13	Total Xylenes	Outdoor Air	1330-20-7	1.5	-	1.0E+02	-	2E-02
13	Trichlorofluoromethane	Outdoor Air	75-69-4	1.4	-	1.3E+03	-	1E-03
Cumulative:							8E-06	3E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Indoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 13

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	
13	1-Ethyl-4-methylbenzene	Indoor Air	622-96-8	0.64	-	-	-	-
13	1,1-Difluoroethane	Indoor Air	75-37-6	2.5	-	4.2E+04	-	6E-05
13	1,1,2-Trichloro-1,2,2-trifluoroethane	Indoor Air	76-13-1	0.6	-	5.2E+03	-	1E-04
13	1,2,4-Trimethylbenzene	Indoor Air	95-63-6	0.98	-	6.3E+01	-	2E-02
13	Acetone	Indoor Air	67-64-1	15	-	3.2E+04	-	5E-04
13	Benzene	Indoor Air	71-43-2	1.4	9.7E-02	3.1E+00	1E-05	5E-01
13	Carbon disulfide	Indoor Air	75-15-0	0.44	-	7.3E+02	-	6E-04
13	Chloroform	Indoor Air	67-66-3	0.75	1.2E-01	1.0E+02	6E-06	8E-03
13	Chloromethane	Indoor Air	74-87-3	1.4	-	9.4E+01	-	1E-02
13	Dichlorodifluoromethane	Indoor Air	75-71-8	2.3	-	1.0E+02	-	2E-02
13	Ethanol	Indoor Air	64-17-5	400	-	-	-	-
13	Ethyl acetate	Indoor Air	141-78-6	12	-	7.3E+01	-	2E-01
13	Ethylbenzene	Indoor Air	100-41-4	1.1	1.1E+00	1.0E+03	1E-06	1E-03
13	Hexane	Indoor Air	110-54-3	1.2	-	7.3E+02	-	2E-03
13	Isopropyl alcohol	Indoor Air	67-63-0	16	-	2.1E+02	-	8E-02
13	Methane (CH ₄)	Indoor Air	74-82-8	6.3	-	-	-	-
13	Methyl ethyl ketone	Indoor Air	78-93-3	1.4	-	5.2E+03	-	3E-04
13	Methyl isobutyl ketone	Indoor Air	108-10-1	2.1	-	3.1E+03	-	7E-04
13	n-Heptane	Indoor Air	142-82-5	0.78	-	4.2E+02	-	2E-03
13	Styrene	Indoor Air	100-42-5	0.6	-	9.4E+02	-	6E-04
13	Toluene	Indoor Air	108-88-3	4.2	-	3.1E+02	-	1E-02
13	Total Xylenes	Indoor Air	1330-20-7	5	-	1.0E+02	-	5E-02
13	Trichlorofluoromethane	Indoor Air	75-69-4	1.4	-	1.3E+03	-	1E-03
13	Vinyl acetate	Indoor Air	108-05-4	2	-	2.1E+02	-	1E-02
Cumulative:							2E-05	8E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)
2. - = no screening value

Summary of Outdoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 14

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	Quotient (HQ)
14	1,1-Difluoroethane	Outdoor Air	75-37-6	0.68	-	4.2E+04	-	2E-05
14	1,1,2-Trichloro-1,2,2-trifluoroethane	Outdoor Air	76-13-1	0.62	-	5.2E+03	-	1E-04
14	1,2,4-Trimethylbenzene	Outdoor Air	95-63-6	0.49	-	6.3E+01	-	8E-03
14	Acetone	Outdoor Air	67-64-1	7.1	-	-	-	-
14	Benzene	Outdoor Air	71-43-2	0.92	9.7E-02	3.1E+00	9E-06	3E-01
14	Dichlorodifluoromethane	Outdoor Air	75-71-8	2.5	-	1.0E+02	-	3E-02
14	Ethanol	Outdoor Air	64-17-5	9.5	-	-	-	-
14	Ethylbenzene	Outdoor Air	100-41-4	0.47	1.1E+00	1.0E+03	4E-07	5E-04
14	Isopropyl alcohol	Outdoor Air	67-63-0	4.5	-	2.1E+02	-	2E-02
14	Methane (CH ₄)	Outdoor Air	74-82-8	2.5	-	-	-	-
14	Methyl ethyl ketone	Outdoor Air	78-93-3	1.1	-	5.2E+03	-	2E-04
14	Toluene	Outdoor Air	108-88-3	2.4	-	3.1E+02	-	8E-03
14	Total Xylenes	Outdoor Air	1330-20-7	2.1	-	1.0E+02	-	2E-02
14	Trichlorofluoromethane	Outdoor Air	75-69-4	1.5	-	1.3E+03	-	1E-03
Cumulative:							1E-05	4E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Indoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 14

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	Quotient (HQ)
14	1-Ethyl-4-methylbenzene	Indoor Air	622-96-8	0.54	-	-	-	-
14	1,1-Difluoroethane	Indoor Air	75-37-6	6.8	-	4.2E+04	-	2E-04
14	1,1,2-Trichloro-1,2,2-trifluoroethane	Indoor Air	76-13-1	0.61	-	5.2E+03	-	1E-04
14	1,2,4-Trimethylbenzene	Indoor Air	95-63-6	0.93	-	6.3E+01	-	1E-02
14	Acetone	Indoor Air	67-64-1	23	-	-	-	-
14	Benzene	Indoor Air	71-43-2	1.5	9.7E-02	3.1E+00	2E-05	5E-01
14	Carbon disulfide	Indoor Air	75-15-0	0.59	-	7.3E+02	-	8E-04
14	Cyclohexane	Indoor Air	110-82-7	0.86	-	6.3E+03	-	1E-04
14	Dichlorodifluoromethane	Indoor Air	75-71-8	2.4	-	1.0E+02	-	2E-02
14	Ethanol	Indoor Air	64-17-5	190	-	-	-	-
14	Ethyl acetate	Indoor Air	141-78-6	4.9	-	7.3E+01	-	7E-02
14	Ethylbenzene	Indoor Air	100-41-4	1.4	1.1E+00	1.0E+03	1E-06	1E-03
14	Hexane	Indoor Air	110-54-3	1.8	-	7.3E+02	-	2E-03
14	Isopropyl alcohol	Indoor Air	67-63-0	29	-	2.1E+02	-	1E-01
14	Methane (CH ₄)	Indoor Air	74-82-8	4.3	-	-	-	-
14	Methyl ethyl ketone	Indoor Air	78-93-3	3.5	-	5.2E+03	-	7E-04
14	Methyl isobutyl ketone	Indoor Air	108-10-1	0.41	-	3.1E+03	-	1E-04
14	n-Heptane	Indoor Air	142-82-5	1.5	-	4.2E+02	-	4E-03
14	Styrene	Indoor Air	100-42-5	1.2	-	9.4E+02	-	1E-03
14	Toluene	Indoor Air	108-88-3	5.4	-	3.1E+02	-	2E-02
14	Total Xylenes	Indoor Air	1330-20-7	5.1	-	1.0E+02	-	5E-02
14	Trichlorofluoromethane	Indoor Air	75-69-4	1.5	-	1.3E+03	-	1E-03
Cumulative:							2E-05	8E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)
2. - = no screening value

Summary of Outdoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 15

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	Index (HI)
15	1,1,2-Trichloro-1,2,2-trifluoroethane	Outdoor Air	76-13-1	0.63	-	5.2E+03	-	1E-04
15	Acetone	Outdoor Air	67-64-1	2.5	-	3.2E+04	-	8E-05
15	Benzene	Outdoor Air	71-43-2	0.4	9.7E-02	3.1E+00	4E-06	1E-01
15	Dichlorodifluoromethane	Outdoor Air	75-71-8	3.1	-	1.0E+02	-	3E-02
15	Ethanol	Outdoor Air	64-17-5	4.8	-	-	-	-
15	Ethylbenzene	Outdoor Air	100-41-4	0.11	1.1E+00	1.0E+03	1E-07	1E-04
15	Isopropyl alcohol	Outdoor Air	67-63-0	1.7	-	2.1E+02	-	8E-03
15	Methane (CH4)	Outdoor Air	74-82-8	3.7	-	-	-	-
15	Toluene	Outdoor Air	108-88-3	0.59	-	3.1E+02	-	2E-03
15	Total Xylenes	Outdoor Air	1330-20-7	0.52	-	1.0E+02	-	5E-03
15	Trichlorofluoromethane	Outdoor Air	75-69-4	1.4	-	1.3E+03	-	1E-03
Cumulative:							4E-06	2E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Indoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 15

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	Index (HI)
15	1,1,2-Trichloro-1,2,2-trifluoroethane	Indoor Air	76-13-1	0.61	-	5.2E+03	-	1E-04
15	Acetone	Indoor Air	67-64-1	30	-	3.2E+04	-	9E-04
15	Benzene	Indoor Air	71-43-2	0.4	9.7E-02	3.1E+00	4E-06	1E-01
15	Dichlorodifluoromethane	Indoor Air	75-71-8	3.4	-	1.0E+02	-	3E-02
15	Ethanol	Indoor Air	64-17-5	180	-	-	-	-
15	Ethyl acetate	Indoor Air	141-78-6	1	-	7.3E+01	-	1E-02
15	Ethylbenzene	Indoor Air	100-41-4	0.13	1.1E+00	1.0E+03	1E-07	1E-04
15	Isopropyl alcohol	Indoor Air	67-63-0	32	-	2.1E+02	-	2E-01
15	Methane (CH4)	Indoor Air	74-82-8	24	-	-	-	-
15	Methyl ethyl ketone	Indoor Air	78-93-3	1	-	5.2E+03	-	2E-04
15	Toluene	Indoor Air	108-88-3	0.64	-	3.1E+02	-	2E-03
15	Total Xylenes	Indoor Air	1330-20-7	0.57	-	1.0E+02	-	6E-03
15	Trichlorofluoromethane	Indoor Air	75-69-4	1.4	-	1.3E+03	-	1E-03
Cumulative:							4E-06	3E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)
2. - = no screening value

Summary of Outdoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 16

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	Quotient (HQ)
16	1,1,2-Trichloro-1,2,2-trifluoroethane	Outdoor Air	76-13-1	0.66	-	5.2E+03	-	1E-04
16	Acetone	Outdoor Air	67-64-1	2.9	-	3.2E+04	-	9E-05
16	Benzene	Outdoor Air	71-43-2	0.42	9.7E-02	3.1E+00	4E-06	1E-01
16	Dichlorodifluoromethane	Outdoor Air	75-71-8	3.2	-	1.0E+02	-	3E-02
16	Ethanol	Outdoor Air	64-17-5	2.9	-	-	-	-
16	Ethylbenzene	Outdoor Air	100-41-4	0.12	1.1E+00	1.0E+03	1E-07	1E-04
16	Isopropyl alcohol	Outdoor Air	67-63-0	1.2	-	2.1E+02	-	6E-03
16	Methane (CH ₄)	Outdoor Air	74-82-8	3.7	-	-	-	-
16	Toluene	Outdoor Air	108-88-3	0.62	-	3.1E+02	-	2E-03
16	Total Xylenes	Outdoor Air	1330-20-7	0.57	-	1.0E+02	-	6E-03
16	Trichlorofluoromethane	Outdoor Air	75-69-4	1.5	-	1.3E+03	-	1E-03
Cumulative:							4E-06	2E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Indoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 16

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Cancer Risk (ILCR)	Quotient (HQ)
16	1,1-Difluoroethane	Indoor Air	75-37-6	160	-	4.2E+04	-	4E-03
16	1,1,2-Trichloro-1,2,2-trifluoroethane	Indoor Air	76-13-1	0.64	-	5.2E+03	-	1E-04
16	1,4-Dichlorobenzene	Indoor Air	106-46-7	4.2	2.6E-01	8.3E+02	2E-05	5E-03
16	Acetone	Indoor Air	67-64-1	23	-	3.2E+04	-	7E-04
16	Benzene	Indoor Air	71-43-2	0.49	9.7E-02	3.1E+00	5E-06	2E-01
16	Dichlorodifluoromethane	Indoor Air	75-71-8	3.5	-	1.0E+02	-	4E-02
16	Ethanol	Indoor Air	64-17-5	260	-	-	-	-
16	Ethyl acetate	Indoor Air	141-78-6	7.4	-	7.3E+01	-	1E-01
16	Ethylbenzene	Indoor Air	100-41-4	0.24	1.1E+00	1.0E+03	2E-07	2E-04
16	Hexane	Indoor Air	110-54-3	0.53	-	7.3E+02	-	7E-04
16	Isopropyl alcohol	Indoor Air	67-63-0	17	-	2.1E+02	-	8E-02
16	Methane (CH ₄)	Indoor Air	74-82-8	33	-	-	-	-
16	Methyl ethyl ketone	Indoor Air	78-93-3	0.83	-	5.2E+03	-	2E-04
16	Toluene	Indoor Air	108-88-3	1.7	-	3.1E+02	-	5E-03
16	Total Xylenes	Indoor Air	1330-20-7	1	-	1.0E+02	-	1E-02
16	Trichlorofluoromethane	Indoor Air	75-69-4	1.5	-	1.3E+03	-	1E-03
Cumulative:							2E-05	4E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Outdoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 18

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	
18	1,1-Difluoroethane	Outdoor Air	75-37-6	0.76	-	4.2E+04	-	2E-05
18	1,1,2-Trichloro-1,2,2-trifluoroethane	Outdoor Air	76-13-1	0.63	-	5.2E+03	-	1E-04
18	Acetone	Outdoor Air	67-64-1	3.2	-	3.2E+04	-	1E-04
18	Benzene	Outdoor Air	71-43-2	0.43	9.7E-02	3.1E+00	4E-06	1E-01
18	Dichlorodifluoromethane	Outdoor Air	75-71-8	3	-	1.0E+02	-	3E-02
18	Ethanol	Outdoor Air	64-17-5	2.6	-	-	-	-
18	Ethylbenzene	Outdoor Air	100-41-4	0.12	1.1E+00	1.0E+03	1E-07	1E-04
18	Isopropyl alcohol	Outdoor Air	67-63-0	1.2	-	2.1E+02	-	6E-03
18	Methane (CH4)	Outdoor Air	74-82-8	2.2	-	-	-	-
18	Toluene	Outdoor Air	108-88-3	0.6	-	3.1E+02	-	2E-03
18	Total Xylenes	Outdoor Air	1330-20-7	0.56	-	1.0E+02	-	6E-03
18	Trichlorofluoromethane	Outdoor Air	75-69-4	1.5	-	1.3E+03	-	1E-03
Cumulative:							5E-06	2E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Indoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 18

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	
18	1,1-Difluoroethane	Indoor Air	75-37-6	3.1	-	4.2E+04	-	7E-05
18	1,1,2-Trichloro-1,2,2-trifluoroethane	Indoor Air	76-13-1	0.66	-	5.2E+03	-	1E-04
18	1,2-Dichloroethane	Indoor Air	107-06-2	0.34	1.1E-01	7.3E+00	3E-06	5E-02
18	Acetone	Indoor Air	67-64-1	9.8	-	3.2E+04	-	3E-04
18	Benzene	Indoor Air	71-43-2	0.54	9.7E-02	3.1E+00	6E-06	2E-01
18	Chloromethane	Indoor Air	74-87-3	1.2	-	9.4E+01	-	1E-02
18	Dichlorodifluoromethane	Indoor Air	75-71-8	3.4	-	1.0E+02	-	3E-02
18	Ethanol	Indoor Air	64-17-5	98	-	-	-	-
18	Ethyl acetate	Indoor Air	141-78-6	1.8	-	7.3E+01	-	2E-02
18	Ethylbenzene	Indoor Air	100-41-4	0.16	1.1E+00	1.0E+03	1E-07	2E-04
18	Isopropyl alcohol	Indoor Air	67-63-0	140	-	2.1E+02	-	7E-01
18	Methane (CH ₄)	Indoor Air	74-82-8	30	-	-	-	-
18	n-Heptane	Indoor Air	142-82-5	0.41	-	4.2E+02	-	1E-03
18	Toluene	Indoor Air	108-88-3	0.9	-	3.1E+02	-	3E-03
18	Total Xylenes	Indoor Air	1330-20-7	0.71	-	1.0E+02	-	7E-03
18	Trichlorofluoromethane	Indoor Air	75-69-4	1.5	-	1.3E+03	-	1E-03
Cumulative:							9E-06	1E+00

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Outdoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 19

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental Lifetime Cancer Risk (ILCR)	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)		
19	1,1-Difluoroethane	Outdoor Air	75-37-6	0.26	-	4.2E+04	-	6E-06
19	1,1,2-Trichloro-1,2,2-trifluoroethane	Outdoor Air	76-13-1	0.61	-	5.2E+03	-	1E-04
19	Acetone	Outdoor Air	67-64-1	2.6	-	3.2E+04	-	8E-05
19	Benzene	Outdoor Air	71-43-2	0.59	9.7E-02	3.1E+00	6E-06	2E-01
19	Chloromethane	Outdoor Air	74-87-3	1.2	-	9.4E+01	-	1E-02
19	Dichlorodifluoromethane	Outdoor Air	75-71-8	2.4	-	1.0E+02	-	2E-02
19	Ethanol	Outdoor Air	64-17-5	4.9	-	-	-	-
19	Ethylbenzene	Outdoor Air	100-41-4	0.21	1.1E+00	1.0E+03	2E-07	2E-04
19	Isopropyl alcohol	Outdoor Air	67-63-0	1.9	-	2.1E+02	-	9E-03
19	Methane (CH4)	Outdoor Air	74-82-8	2	-	-	-	-
19	Toluene	Outdoor Air	108-88-3	0.99	-	3.1E+02	-	3E-03
19	Total Xylenes	Outdoor Air	1330-20-7	1	-	1.0E+02	-	1E-02
19	Trichlorofluoromethane	Outdoor Air	75-69-4	1.4	-	1.3E+03	-	1E-03
Cumulative:							6E-06	3E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Indoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 19

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental Lifetime Cancer Risk (ILCR)	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)		
19	1,1-Difluoroethane	Indoor Air	75-37-6	45	-	4.2E+04	-	1E-03
19	1,1,2-Trichloro-1,2,2-trifluoroethane	Indoor Air	76-13-1	0.6	-	5.2E+03	-	1E-04
19	Acetone	Indoor Air	67-64-1	72	-	3.2E+04	-	2E-03
19	Benzene	Indoor Air	71-43-2	0.84	9.7E-02	3.1E+00	9E-06	3E-01
19	Chloroform	Indoor Air	67-66-3	0.7	1.2E-01	1.0E+02	6E-06	7E-03
19	Chloromethane	Indoor Air	74-87-3	1.2	-	9.4E+01	-	1E-02
19	Dichlorodifluoromethane	Indoor Air	75-71-8	2.4	-	1.0E+02	-	2E-02
19	Ethanol	Indoor Air	64-17-5	540	-	-	-	-
19	Ethyl acetate	Indoor Air	141-78-6	2.7	-	7.3E+01	-	4E-02
19	Ethylbenzene	Indoor Air	100-41-4	0.42	1.1E+00	1.0E+03	4E-07	4E-04
19	Isopropyl alcohol	Indoor Air	67-63-0	48	-	2.1E+02	-	2E-01
19	Methane (CH ₄)	Indoor Air	74-82-8	86	-	-	-	-
19	Methyl ethyl ketone	Indoor Air	78-93-3	2.3	-	5.2E+03	-	4E-04
19	Methylene chloride	Indoor Air	75-09-2	2.6	1.0E+00	4.2E+02	3E-06	6E-03
19	n-Heptane	Indoor Air	142-82-5	0.45	-	4.2E+02	-	1E-03
19	Styrene	Indoor Air	100-42-5	0.47	-	9.4E+02	-	5E-04
19	Tetrahydrofuran	Indoor Air	109-99-9	0.65	-	2.1E+03	-	3E-04
19	Toluene	Indoor Air	108-88-3	1.8	-	3.1E+02	-	6E-03
19	Total Xylenes	Indoor Air	1330-20-7	2.1	-	1.0E+02	-	2E-02
19	Trichlorofluoromethane	Indoor Air	75-69-4	1.4	-	1.3E+03	-	1E-03
19	Vinyl acetate	Indoor Air	108-05-4	1.5	-	2.1E+02	-	7E-03
Cumulative:							2E-05	6E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Outdoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 20

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	Index (HI)
20	1,1,2-Trichloro-1,2,2-trifluoroethane	Outdoor Air	76-13-1	0.66	-	5.2E+03	-	1E-04
20	Acetone	Outdoor Air	67-64-1	6.4	-	3.2E+04	-	2E-04
20	Benzene	Outdoor Air	71-43-2	0.44	9.7E-02	3.1E+00	5E-06	1E-01
20	Dichlorodifluoromethane	Outdoor Air	75-71-8	2.9	-	1.0E+02	-	3E-02
20	Ethanol	Outdoor Air	64-17-5	3	-	-	-	-
20	Ethylbenzene	Outdoor Air	100-41-4	0.15	1.1E+00	1.0E+03	1E-07	2E-04
20	Hexane	Outdoor Air	110-54-3	1.4	-	7.3E+02	-	2E-03
20	Isopropyl alcohol	Outdoor Air	67-63-0	1.2	-	2.1E+02	-	6E-03
20	Methane (CH ₄)	Outdoor Air	74-82-8	36	-	-	-	-
20	Toluene	Outdoor Air	108-88-3	0.76	-	3.1E+02	-	2E-03
20	Total Xylenes	Outdoor Air	1330-20-7	0.72	-	1.0E+02	-	7E-03
20	Trichlorofluoromethane	Outdoor Air	75-69-4	1.5	-	1.3E+03	-	1E-03
Cumulative:							5E-06	2E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Indoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 20

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Cancer Risk (ILCR)	Index (HI)
20	1,1-Difluoroethane	Indoor Air	75-37-6	3.6	-	4.2E+04	-	9E-05
20	1,1,1-Trichloroethane	Indoor Air	71-55-6	0.12	-	1.0E+03	-	1E-04
20	1,1,2-Trichloro-1,2,2-trifluoroethane	Indoor Air	76-13-1	0.6	-	5.2E+03	-	1E-04
20	1,2-Dichloroethane	Indoor Air	107-06-2	1.5	1.1E-01	7.3E+00	1E-05	2E-01
20	Acetone	Indoor Air	67-64-1	17	-	3.2E+04	-	5E-04
20	Benzene	Indoor Air	71-43-2	0.52	9.7E-02	3.1E+00	5E-06	2E-01
20	Carbon disulfide	Indoor Air	75-15-0	0.4	-	7.3E+02	-	5E-04
20	Dichlorodifluoromethane	Indoor Air	75-71-8	3.4	-	1.0E+02	-	3E-02
20	Ethanol	Indoor Air	64-17-5	120	-	-	-	-
20	Ethyl acetate	Indoor Air	141-78-6	1.5	-	7.3E+01	-	2E-02
20	Ethylbenzene	Indoor Air	100-41-4	0.49	1.1E+00	1.0E+03	4E-07	5E-04
20	Hexane	Indoor Air	110-54-3	0.67	-	7.3E+02	-	9E-04
20	Isopropyl alcohol	Indoor Air	67-63-0	23	-	2.1E+02	-	1E-01
20	Methane (CH ₄)	Indoor Air	74-82-8	6.3	-	-	-	-
20	Methyl ethyl ketone	Indoor Air	78-93-3	1.5	-	5.2E+03	-	3E-04
20	Tetrachloroethene	Indoor Air	127-18-4	0.76	4.6E-01	4.2E+01	2E-06	2E-02
20	Tetrahydrofuran	Indoor Air	109-99-9	1.2	-	2.1E+03	-	6E-04
20	Toluene	Indoor Air	108-88-3	1.8	-	3.1E+02	-	6E-03
20	Total Xylenes	Indoor Air	1330-20-7	2	-	1.0E+02	-	2E-02
20	Trichlorofluoromethane	Indoor Air	75-69-4	1.4	-	1.3E+03	-	1E-03
20	Vinyl acetate	Indoor Air	108-05-4	0.99	-	2.1E+02	-	5E-03
Cumulative:							2E-05	6E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Outdoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 21

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	Index (HI)
21	1,1-Difluoroethane	Outdoor Air	75-37-6	0.56	-	4.2E+04	-	1E-05
21	1,1,2-Trichloro-1,2,2-trifluoroethane	Outdoor Air	76-13-1	0.59	-	5.2E+03	-	1E-04
21	Acetone	Outdoor Air	67-64-1	5.7	-	3.2E+04	-	2E-04
21	Benzene	Outdoor Air	71-43-2	0.82	9.7E-02	3.1E+00	8E-06	3E-01
21	Dichlorodifluoromethane	Outdoor Air	75-71-8	2.2	-	1.0E+02	-	2E-02
21	Ethanol	Outdoor Air	64-17-5	9.3	-	-	-	-
21	Ethylbenzene	Outdoor Air	100-41-4	0.53	1.1E+00	1.0E+03	5E-07	5E-04
21	Hexane	Outdoor Air	110-54-3	0.49	-	7.3E+02	-	7E-04
21	Isopropyl alcohol	Outdoor Air	67-63-0	3.6	-	2.1E+02	-	2E-02
21	Methane (CH ₄)	Outdoor Air	74-82-8	2.9	-	-	-	-
21	Methyl ethyl ketone	Outdoor Air	78-93-3	1.3	-	5.2E+03	-	3E-04
21	Toluene	Outdoor Air	108-88-3	2	-	3.1E+02	-	6E-03
21	Total Xylenes	Outdoor Air	1330-20-7	2.5	-	1.0E+02	-	3E-02
21	Trichlorofluoromethane	Outdoor Air	75-69-4	1.3	-	1.3E+03	-	1E-03
Cumulative:							9E-06	3E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Indoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 21

PropertyID	Analyte	Type of Air		EPC (µg/m ³)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard
		Sample	CAS Number		Level (µg/m ³)	Level (µg/m ³)	Lifetime Cancer Risk (ILCR)	Index (HI)
21	1-Ethyl-4-methylbenzene	Indoor Air	622-96-8	1.4	-	-	-	-
21	1,1-Difluoroethane	Indoor Air	75-37-6	0.62	-	4.2E+04	-	1E-05
21	1,1,2-Trichloro-1,2,2-trifluoroethane	Indoor Air	76-13-1	0.58	-	5.2E+03	-	1E-04
21	1,2,4-Trimethylbenzene	Indoor Air	95-63-6	2	-	6.3E+01	-	3E-02
21	1,3,5-Trimethylbenzene	Indoor Air	108-67-8	0.69	-	6.3E+01	-	1E-02
21	Acetone	Indoor Air	67-64-1	8.9	-	3.2E+04	-	3E-04
21	Benzene	Indoor Air	71-43-2	0.87	9.7E-02	3.1E+00	9E-06	3E-01
21	Cyclohexane	Indoor Air	110-82-7	0.52	-	6.3E+03	-	8E-05
21	Dichlorodifluoromethane	Indoor Air	75-71-8	2.1	-	1.0E+02	-	2E-02
21	Ethanol	Indoor Air	64-17-5	84	-	-	-	-
21	Ethylbenzene	Indoor Air	100-41-4	0.56	1.1E+00	1.0E+03	5E-07	6E-04
21	Isopropyl alcohol	Indoor Air	67-63-0	15	-	2.1E+02	-	7E-02
21	Methane (CH ₄)	Indoor Air	74-82-8	31	-	-	-	-
21	Methyl ethyl ketone	Indoor Air	78-93-3	1.2	-	5.2E+03	-	2E-04
21	Methylene chloride	Indoor Air	75-09-2	2	1.0E+00	4.2E+02	2E-06	5E-03
21	n-Heptane	Indoor Air	142-82-5	0.45	-	4.2E+02	-	1E-03
21	Toluene	Indoor Air	108-88-3	2	-	3.1E+02	-	6E-03
21	Total Xylenes	Indoor Air	1330-20-7	2.6	-	1.0E+02	-	3E-02
21	Trichlorofluoromethane	Indoor Air	75-69-4	1.3	-	1.3E+03	-	1E-03
Cumulative:							1E-05	5E-01

1. Concentrations are shown in micrograms per meter cubed (µg/m³)

2. - = no screening value

Summary of Outdoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 22

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	
22	1,1-Difluoroethane	Outdoor Air	75-37-6	0.29	-	4.2E+04	-	7E-06
22	1,1,2-Trichloro-1,2,2-trifluoroethane	Outdoor Air	76-13-1	0.6	-	5.2E+03	-	1E-04
22	Acetone	Outdoor Air	67-64-1	2.7	-	3.2E+04	-	8E-05
22	Benzene	Outdoor Air	71-43-2	0.58	9.7E-02	3.1E+00	6E-06	2E-01
22	Chloromethane	Outdoor Air	74-87-3	1.2	-	9.4E+01	-	1E-02
22	Dichlorodifluoromethane	Outdoor Air	75-71-8	2.4	-	1.0E+02	-	2E-02
22	Ethanol	Outdoor Air	64-17-5	6.8	-	-	-	-
22	Ethylbenzene	Outdoor Air	100-41-4	0.21	1.1E+00	1.0E+03	2E-07	2E-04
22	Isopropyl alcohol	Outdoor Air	67-63-0	2.6	-	2.1E+02	-	1E-02
22	Methane (CH ₄)	Outdoor Air	74-82-8	3.6	-	-	-	-
22	Toluene	Outdoor Air	108-88-3	0.94	-	3.1E+02	-	3E-03
22	Total Xylenes	Outdoor Air	1330-20-7	1	-	1.0E+02	-	1E-02
22	Trichlorofluoromethane	Outdoor Air	75-69-4	1.4	-	1.3E+03	-	1E-03
Cumulative:							6E-06	3E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Indoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates

Residence 22

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	
22	1,1-Difluoroethane	Indoor Air	75-37-6	2.7	-	4.2E+04	-	6E-05
22	1,1,2-Trichloro-1,2,2-trifluoroethane	Indoor Air	76-13-1	0.6	-	5.2E+03	-	1E-04
22	1,2,4-Trimethylbenzene	Indoor Air	95-63-6	0.49	-	6.3E+01	-	8E-03
22	Acetone	Indoor Air	67-64-1	7.1	-	3.2E+04	-	2E-04
22	Benzene	Indoor Air	71-43-2	0.65	9.7E-02	3.1E+00	7E-06	2E-01
22	Chloromethane	Indoor Air	74-87-3	1.4	-	9.4E+01	-	1E-02
22	Dichlorodifluoromethane	Indoor Air	75-71-8	2.4	-	1.0E+02	-	2E-02
22	Ethanol	Indoor Air	64-17-5	180	-	-	-	-
22	Ethyl acetate	Indoor Air	141-78-6	4.8	-	7.3E+01	-	7E-02
22	Ethylbenzene	Indoor Air	100-41-4	0.3	1.1E+00	1.0E+03	3E-07	3E-04
22	Isopropyl alcohol	Indoor Air	67-63-0	5.4	-	2.1E+02	-	3E-02
22	Methane (CH ₄)	Indoor Air	74-82-8	35	-	-	-	-
22	Methyl ethyl ketone	Indoor Air	78-93-3	1.2	-	5.2E+03	-	2E-04
22	Toluene	Indoor Air	108-88-3	1.5	-	3.1E+02	-	5E-03
22	Total Xylenes	Indoor Air	1330-20-7	1.4	-	1.0E+02	-	1E-02
22	Trichlorofluoromethane	Indoor Air	75-69-4	1.4	-	1.3E+03	-	1E-03
22	Vinyl acetate	Indoor Air	108-05-4	0.7	-	2.1E+02	-	3E-03
Cumulative:							7E-06	4E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Outdoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates

Residence 23

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	
23	1,1-Difluoroethane	Outdoor Air	75-37-6	0.38	-	4.2E+04	-	9E-06
23	1,1,2-Trichloro-1,2,2-trifluoroethane	Outdoor Air	76-13-1	0.61	-	5.2E+03	-	1E-04
23	Acetone	Outdoor Air	67-64-1	2.8	-	3.2E+04	-	9E-05
23	Benzene	Outdoor Air	71-43-2	0.64	9.7E-02	3.1E+00	7E-06	2E-01
23	Chloromethane	Outdoor Air	74-87-3	0.95	-	9.4E+01	-	1E-02
23	Dichlorodifluoromethane	Outdoor Air	75-71-8	2.4	-	1.0E+02	-	2E-02
23	Ethanol	Outdoor Air	64-17-5	5.1	-	-	-	-
23	Ethylbenzene	Outdoor Air	100-41-4	0.25	1.1E+00	1.0E+03	2E-07	3E-04
23	Isopropyl alcohol	Outdoor Air	67-63-0	3.5	-	2.1E+02	-	2E-02
23	Methane (CH4)	Outdoor Air	74-82-8	5.7	-	-	-	-
23	Toluene	Outdoor Air	108-88-3	1.3	-	3.1E+02	-	4E-03
23	Total Xylenes	Outdoor Air	1330-20-7	1.2	-	1.0E+02	-	1E-02
23	Trichlorofluoromethane	Outdoor Air	75-69-4	1.4	-	1.3E+03	-	1E-03
Cumulative:							7E-06	3E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Indoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 23

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	
23	1,1-Difluoroethane	Indoor Air	75-37-6	3.2	-	4.2E+04	-	8E-05
23	1,1,2-Trichloro-1,2,2-trifluoroethane	Indoor Air	76-13-1	0.61	-	5.2E+03	-	1E-04
23	Acetone	Indoor Air	67-64-1	21	-	3.2E+04	-	7E-04
23	Benzene	Indoor Air	71-43-2	0.69	9.7E-02	3.1E+00	7E-06	2E-01
23	Chloromethane	Indoor Air	74-87-3	1	-	9.4E+01	-	1E-02
23	Dichlorodifluoromethane	Indoor Air	75-71-8	2.2	-	1.0E+02	-	2E-02
23	Ethanol	Indoor Air	64-17-5	230	-	-	-	-
23	Ethyl acetate	Indoor Air	141-78-6	6.1	-	7.3E+01	-	8E-02
23	Ethylbenzene	Indoor Air	100-41-4	0.43	1.1E+00	1.0E+03	4E-07	4E-04
23	Hexane	Indoor Air	110-54-3	0.6	-	7.3E+02	-	8E-04
23	Isopropyl alcohol	Indoor Air	67-63-0	990	-	2.1E+02	-	5E+00
23	Methane (CH4)	Indoor Air	74-82-8	100	-	-	-	-
23	Methyl ethyl ketone	Indoor Air	78-93-3	1	-	5.2E+03	-	2E-04
23	Tetrachloroethene	Indoor Air	127-18-4	1.4	4.6E-01	4.2E+01	3E-06	3E-02
23	Toluene	Indoor Air	108-88-3	2.3	-	3.1E+02	-	7E-03
23	Total Xylenes	Indoor Air	1330-20-7	1.8	-	1.0E+02	-	2E-02
23	Trichlorofluoromethane	Indoor Air	75-69-4	1.2	-	1.3E+03	-	9E-04
Cumulative:							1E-05	5E+00

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)
2. - = no screening value

Summary of Outdoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 25

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	
25	1,1,2-Trichloro-1,2,2-trifluoroethane	Outdoor Air	76-13-1	0.66	-	5.2E+03	-	1E-04
25	Acetone	Outdoor Air	67-64-1	2	-	3.2E+04	-	6E-05
25	Benzene	Outdoor Air	71-43-2	0.37	9.7E-02	3.1E+00	4E-06	1E-01
25	Dichlorodifluoromethane	Outdoor Air	75-71-8	3.2	-	1.0E+02	-	3E-02
25	Ethanol	Outdoor Air	64-17-5	2.5	-	-	-	-
25	Ethylbenzene	Outdoor Air	100-41-4	0.099	1.1E+00	1.0E+03	9E-08	1E-04
25	Isopropyl alcohol	Outdoor Air	67-63-0	1.2	-	2.1E+02	-	6E-03
25	Methane (CH4)	Outdoor Air	74-82-8	88	-	-	-	-
25	Toluene	Outdoor Air	108-88-3	0.5	-	3.1E+02	-	2E-03
25	Total Xylenes	Outdoor Air	1330-20-7	0.44	-	1.0E+02	-	4E-03
25	Trichlorofluoromethane	Outdoor Air	75-69-4	1.5	-	1.3E+03	-	1E-03
Cumulative:							4E-06	2E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Indoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 25

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	
25	1,1-Difluoroethane	Indoor Air	75-37-6	0.42	-	4.2E+04	-	1E-05
25	1,1,2-Trichloro-1,2,2-trifluoroethane	Indoor Air	76-13-1	0.65	-	5.2E+03	-	1E-04
25	Acetone	Indoor Air	67-64-1	12	-	3.2E+04	-	4E-04
25	Benzene	Indoor Air	71-43-2	0.4	9.7E-02	3.1E+00	4E-06	1E-01
25	Dichlorodifluoromethane	Indoor Air	75-71-8	3.3	-	1.0E+02	-	3E-02
25	Ethanol	Indoor Air	64-17-5	50	-	-	-	-
25	Ethyl acetate	Indoor Air	141-78-6	4.2	-	7.3E+01	-	6E-02
25	Ethylbenzene	Indoor Air	100-41-4	0.16	1.1E+00	1.0E+03	1E-07	2E-04
25	Isopropyl alcohol	Indoor Air	67-63-0	3.3	-	2.1E+02	-	2E-02
25	Methane (CH ₄)	Indoor Air	74-82-8	8.5	-	-	-	-
25	Methyl ethyl ketone	Indoor Air	78-93-3	0.88	-	5.2E+03	-	2E-04
25	n-Heptane	Indoor Air	142-82-5	0.7	-	4.2E+02	-	2E-03
25	Toluene	Indoor Air	108-88-3	0.75	-	3.1E+02	-	2E-03
25	Total Xylenes	Indoor Air	1330-20-7	0.78	-	1.0E+02	-	8E-03
25	Trichlorofluoromethane	Indoor Air	75-69-4	1.5	-	1.3E+03	-	1E-03
Cumulative:							4E-06	2E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Outdoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 26

PropertyID	Analyte	Type of Air Sample	CAS Number	EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening Level ($\mu\text{g}/\text{m}^3$)	Non-Cancer Screening Level ($\mu\text{g}/\text{m}^3$)	Incremental Lifetime Cancer Risk (ILCR)	Hazard Index (HI)
26	1,1-Difluoroethane	Outdoor Air	75-37-6	5	-	4.2E+04	-	1E-04
26	1,1,2-Trichloro-1,2,2-trifluoroethane	Outdoor Air	76-13-1	0.59	-	5.2E+03	-	1E-04
26	1,2,4-Trimethylbenzene	Outdoor Air	95-63-6	0.54	-	6.3E+01	-	9E-03
26	Acetone	Outdoor Air	67-64-1	7.9	-	3.2E+04	-	2E-04
26	Benzene	Outdoor Air	71-43-2	0.57	9.7E-02	3.1E+00	6E-06	2E-01
26	Dichlorodifluoromethane	Outdoor Air	75-71-8	3.1	-	1.0E+02	-	3E-02
26	Ethanol	Outdoor Air	64-17-5	4.8	-	-	-	-
26	Ethylbenzene	Outdoor Air	100-41-4	0.22	1.1E+00	1.0E+03	2E-07	2E-04
26	Isopropyl alcohol	Outdoor Air	67-63-0	2	-	2.1E+02	-	1E-02
26	Methane (CH ₄)	Outdoor Air	74-82-8	3.3	-	-	-	-
26	Methyl ethyl ketone	Outdoor Air	78-93-3	0.74	-	5.2E+03	-	1E-04
26	Toluene	Outdoor Air	108-88-3	1.3	-	3.1E+02	-	4E-03
26	Total Xylenes	Outdoor Air	1330-20-7	1.1	-	1.0E+02	-	1E-02
26	Trichlorofluoromethane	Outdoor Air	75-69-4	1.4	-	1.3E+03	-	1E-03
Cumulative:							6E-06	3E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)
2. - = no screening value

Summary of Indoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 26

PropertyID	Analyte	Type of Air Sample	CAS Number	EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening Level ($\mu\text{g}/\text{m}^3$)	Non-Cancer Screening Level ($\mu\text{g}/\text{m}^3$)	Incremental Lifetime Cancer Risk (ILCR)	Hazard Index (HI)
26	1,1-Difluoroethane	Indoor Air	75-37-6	17	-	4.2E+04	-	4E-04
26	1,1,2-Trichloro-1,2,2-trifluoroethane	Indoor Air	76-13-1	0.58	-	5.2E+03	-	1E-04
26	1,2,4-Trimethylbenzene	Indoor Air	95-63-6	0.98	-	6.3E+01	-	2E-02
26	Acetone	Indoor Air	67-64-1	59	-	3.2E+04	-	2E-03
26	Benzene	Indoor Air	71-43-2	0.75	9.7E-02	3.1E+00	8E-06	2E-01
26	Carbon disulfide	Indoor Air	75-15-0	0.78	-	7.3E+02	-	1E-03
26	Dichlorodifluoromethane	Indoor Air	75-71-8	3.3	-	1.0E+02	-	3E-02
26	Ethanol	Indoor Air	64-17-5	280	-	-	-	-
26	Ethyl acetate	Indoor Air	141-78-6	4.6	-	7.3E+01	-	6E-02
26	Ethylbenzene	Indoor Air	100-41-4	1.8	1.1E+00	1.0E+03	2E-06	2E-03
26	Isopropyl alcohol	Indoor Air	67-63-0	51	-	2.1E+02	-	2E-01
26	Methane (CH ₄)	Indoor Air	74-82-8	7	-	-	-	-
26	Methyl ethyl ketone	Indoor Air	78-93-3	3	-	5.2E+03	-	6E-04
26	Methyl isobutyl ketone	Indoor Air	108-10-1	0.66	-	3.1E+03	-	2E-04
26	n-Heptane	Indoor Air	142-82-5	0.45	-	4.2E+02	-	1E-03
26	Styrene	Indoor Air	100-42-5	0.85	-	9.4E+02	-	9E-04
26	Toluene	Indoor Air	108-88-3	3.5	-	3.1E+02	-	1E-02
26	Total Xylenes	Indoor Air	1330-20-7	3.5	-	1.0E+02	-	4E-02
26	Trichloroethene	Indoor Air	79-01-6	0.03	4.8E-01	2.1E+00	6E-08	1E-02
26	Trichlorofluoromethane	Indoor Air	75-69-4	1.4	-	1.3E+03	-	1E-03
					Cumulative:		9E-06	7E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Outdoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 28

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental Lifetime Cancer Risk (ILCR)	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)		
28	1,1-Difluoroethane	Outdoor Air	75-37-6	0.56	-	4.2E+04	-	1E-05
28	1,1,2-Trichloro-1,2,2-trifluoroethane	Outdoor Air	76-13-1	0.59	-	5.2E+03	-	1E-04
28	Acetone	Outdoor Air	67-64-1	7.7	-	3.2E+04	-	2E-04
28	Benzene	Outdoor Air	71-43-2	0.62	9.7E-02	3.1E+00	6E-06	2E-01
28	Dichlorodifluoromethane	Outdoor Air	75-71-8	2.6	-	1.0E+02	-	3E-02
28	Ethanol	Outdoor Air	64-17-5	6.4	-	-	-	-
28	Ethylbenzene	Outdoor Air	100-41-4	0.26	1.1E+00	1.0E+03	2E-07	3E-04
28	Isopropyl alcohol	Outdoor Air	67-63-0	2.1	-	2.1E+02	-	1E-02
28	Methane (CH ₄)	Outdoor Air	74-82-8	28	-	-	-	-
28	Methyl ethyl ketone	Outdoor Air	78-93-3	0.83	-	5.2E+03	-	2E-04
28	Toluene	Outdoor Air	108-88-3	1.6	-	3.1E+02	-	5E-03
28	Total Xylenes	Outdoor Air	1330-20-7	1.3	-	1.0E+02	-	1E-02
28	Trichlorofluoromethane	Outdoor Air	75-69-4	1.3	-	1.3E+03	-	1E-03
Cumulative:							7E-06	3E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)
2. - = no screening value

Summary of Indoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 28

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental Lifetime Cancer Risk (ILCR)	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)		
28	1,1-Difluoroethane	Indoor Air	75-37-6	2.6	-	4.2E+04	-	6E-05
28	1,1,2-Trichloro-1,2,2-trifluoroethane	Indoor Air	76-13-1	0.6	-	5.2E+03	-	1E-04
28	1,2-Dichloroethane	Indoor Air	107-06-2	0.15	1.1E-01	7.3E+00	1E-06	2E-02
28	1,2,4-Trimethylbenzene	Indoor Air	95-63-6	0.59	-	6.3E+01	-	9E-03
28	Acetone	Indoor Air	67-64-1	100	-	3.2E+04	-	3E-03
28	Benzene	Indoor Air	71-43-2	0.7	9.7E-02	3.1E+00	7E-06	2E-01
28	Carbon disulfide	Indoor Air	75-15-0	0.44	-	7.3E+02	-	6E-04
28	Dichlorodifluoromethane	Indoor Air	75-71-8	2.8	-	1.0E+02	-	3E-02
28	Ethanol	Indoor Air	64-17-5	280	-	-	-	-
28	Ethyl acetate	Indoor Air	141-78-6	8.5	-	7.3E+01	-	1E-01
28	Ethylbenzene	Indoor Air	100-41-4	0.43	1.1E+00	1.0E+03	4E-07	4E-04
28	Isopropyl alcohol	Indoor Air	67-63-0	47	-	2.1E+02	-	2E-01
28	Methane (CH4)	Indoor Air	74-82-8	2100	-	-	-	-
28	Methyl ethyl ketone	Indoor Air	78-93-3	1.8	-	5.2E+03	-	3E-04
28	Tetrachloroethene	Indoor Air	127-18-4	1.1	4.6E-01	4.2E+01	2E-06	3E-02
28	Toluene	Indoor Air	108-88-3	4.2	-	3.1E+02	-	1E-02
28	Total Xylenes	Indoor Air	1330-20-7	2	-	1.0E+02	-	2E-02
28	Trichlorofluoromethane	Indoor Air	75-69-4	1.4	-	1.3E+03	-	1E-03
Cumulative:							1E-05	7E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)
2. - = no screening value

Summary of Outdoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 29

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental Lifetime Cancer Risk (ILCR)	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)		
29	1,1,2-Trichloro-1,2,2-trifluoroethane	Outdoor Air	76-13-1	0.63	-	5.2E+03	-	1E-04
29	Acetone	Outdoor Air	67-64-1	2.5	-	3.2E+04	-	8E-05
29	Benzene	Outdoor Air	71-43-2	0.42	9.7E-02	3.1E+00	4E-06	1E-01
29	Dichlorodifluoromethane	Outdoor Air	75-71-8	3	-	1.0E+02	-	3E-02
29	Ethanol	Outdoor Air	64-17-5	2.3	-	-	-	-
29	Ethylbenzene	Outdoor Air	100-41-4	0.12	1.1E+00	1.0E+03	1E-07	1E-04
29	Isopropyl alcohol	Outdoor Air	67-63-0	1.3	-	2.1E+02	-	6E-03
29	Methane (CH4)	Outdoor Air	74-82-8	8.9	-	-	-	-
29	Toluene	Outdoor Air	108-88-3	0.63	-	3.1E+02	-	2E-03
29	Total Xylenes	Outdoor Air	1330-20-7	0.53	-	1.0E+02	-	5E-03
29	Trichlorofluoromethane	Outdoor Air	75-69-4	1.4	-	1.3E+03	-	1E-03
Cumulative:							4E-06	2E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Indoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 29

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental Lifetime Cancer Risk (ILCR)	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)		
29	1,1,2-Trichloro-1,2,2-trifluoroethane	Indoor Air	76-13-1	0.68	-	5.2E+03	-	1E-04
29	1,4-Dichlorobenzene	Indoor Air	106-46-7	37	2.6E-01	8.3E+02	1E-04	4E-02
29	Acetone	Indoor Air	67-64-1	4.9	-	3.2E+04	-	2E-04
29	Benzene	Indoor Air	71-43-2	0.66	9.7E-02	3.1E+00	7E-06	2E-01
29	Dichlorodifluoromethane	Indoor Air	75-71-8	3	-	1.0E+02	-	3E-02
29	Ethanol	Indoor Air	64-17-5	62	-	-	-	-
29	Ethyl acetate	Indoor Air	141-78-6	3.9	-	7.3E+01	-	5E-02
29	Ethylbenzene	Indoor Air	100-41-4	0.17	1.1E+00	1.0E+03	2E-07	2E-04
29	Isopropyl alcohol	Indoor Air	67-63-0	81	-	2.1E+02	-	4E-01
29	Methane (CH4)	Indoor Air	74-82-8	31	-	-	-	-
29	Toluene	Indoor Air	108-88-3	1.1	-	3.1E+02	-	4E-03
29	Total Xylenes	Indoor Air	1330-20-7	0.77	-	1.0E+02	-	8E-03
29	Trichlorofluoromethane	Indoor Air	75-69-4	1.6	-	1.3E+03	-	1E-03
						Cumulative:	1E-04	7E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Outdoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 33

PropertyID	Analyte	Type of Air Sample	CAS Number	EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening Level ($\mu\text{g}/\text{m}^3$)	Non-Cancer Screening Level ($\mu\text{g}/\text{m}^3$)	Incremental Lifetime Cancer Risk (ILCR)	Hazard Index (HI)
33	1,1-Difluoroethane	Outdoor Air	75-37-6	0.69	-	4.2E+04	-	2E-05
33	1,1,2-Trichloro-1,2,2-trifluoroethane	Outdoor Air	76-13-1	0.6	-	5.2E+03	-	1E-04
33	Acetone	Outdoor Air	67-64-1	4.2	-	3.2E+04	-	1E-04
33	Benzene	Outdoor Air	71-43-2	0.7	9.7E-02	3.1E+00	7E-06	2E-01
33	Chloromethane	Outdoor Air	74-87-3	1.3	-	9.4E+01	-	1E-02
33	Dichlorodifluoromethane	Outdoor Air	75-71-8	2.3	-	1.0E+02	-	2E-02
33	Ethanol	Outdoor Air	64-17-5	6.2	-	-	-	-
33	Ethylbenzene	Outdoor Air	100-41-4	0.33	1.1E+00	1.0E+03	3E-07	3E-04
33	Hexane	Outdoor Air	110-54-3	0.42	-	7.3E+02	-	6E-04
33	Isopropyl alcohol	Outdoor Air	67-63-0	3.1	-	2.1E+02	-	1E-02
33	Methane (CH4)	Outdoor Air	74-82-8	3.5	-	-	-	-
33	Methyl ethyl ketone	Outdoor Air	78-93-3	0.71	-	5.2E+03	-	1E-04
33	Toluene	Outdoor Air	108-88-3	1.5	-	3.1E+02	-	5E-03
33	Total Xylenes	Outdoor Air	1330-20-7	1.5	-	1.0E+02	-	2E-02
33	Trichlorofluoromethane	Outdoor Air	75-69-4	1.4	-	1.3E+03	-	1E-03
Cumulative:							8E-06	3E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)
2. - = no screening value

Summary of Indoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 33

PropertyID	Analyte	Type of Air Sample	CAS Number	EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening Level ($\mu\text{g}/\text{m}^3$)	Non-Cancer Screening Level ($\mu\text{g}/\text{m}^3$)	Incremental Lifetime Cancer Risk (ILCR)	Hazard Index (HI)
33	1,1-Difluoroethane	Indoor Air	75-37-6	58	-	4.2E+04	-	1E-03
33	1,1,2-Trichloro-1,2,2-trifluoroethane	Indoor Air	76-13-1	0.6	-	5.2E+03	-	1E-04
33	1,3-Butadiene	Indoor Air	106-99-0	1.4	1.7E-02	2.1E+00	8E-05	7E-01
33	Acetone	Indoor Air	67-64-1	19	-	3.2E+04	-	6E-04
33	Benzene	Indoor Air	71-43-2	4.8	9.7E-02	3.1E+00	5E-05	2E+00
33	Chloromethane	Indoor Air	74-87-3	1.5	-	9.4E+01	-	2E-02
33	Cyclohexane	Indoor Air	110-82-7	0.41	-	6.3E+03	-	7E-05
33	Dichlorodifluoromethane	Indoor Air	75-71-8	2.4	-	1.0E+02	-	2E-02
33	Ethanol	Indoor Air	64-17-5	190	-	-	-	-
33	Ethyl acetate	Indoor Air	141-78-6	1.6	-	7.3E+01	-	2E-02
33	Ethylbenzene	Indoor Air	100-41-4	1	1.1E+00	1.0E+03	9E-07	1E-03
33	Isopropyl alcohol	Indoor Air	67-63-0	60	-	2.1E+02	-	3E-01
33	Methane (CH ₄)	Indoor Air	74-82-8	100	-	-	-	-
33	Methyl ethyl ketone	Indoor Air	78-93-3	2.1	-	5.2E+03	-	4E-04
33	n-Heptane	Indoor Air	142-82-5	0.41	-	4.2E+02	-	1E-03
33	Styrene	Indoor Air	100-42-5	0.81	-	9.4E+02	-	9E-04
33	Toluene	Indoor Air	108-88-3	3.5	-	3.1E+02	-	1E-02
33	Total Xylenes	Indoor Air	1330-20-7	3.5	-	1.0E+02	-	4E-02
33	Trichlorofluoromethane	Indoor Air	75-69-4	1.4	-	1.3E+03	-	1E-03
Cumulative:							1E-04	3E+00

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)
2. - = no screening value

Summary of Outdoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 34

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Cancer Risk (ILCR)	Index (HI)
34	1,1,2-Trichloro-1,2,2-trifluoroethane	Outdoor Air	76-13-1	0.59	-	5.2E+03	-	1E-04
34	1,2,4-Trimethylbenzene	Outdoor Air	95-63-6	0.54	-	6.3E+01	-	9E-03
34	Acetone	Outdoor Air	67-64-1	8.9	-	3.2E+04	-	3E-04
34	Benzene	Outdoor Air	71-43-2	0.64	9.7E-02	3.1E+00	7E-06	2E-01
34	Dichlorodifluoromethane	Outdoor Air	75-71-8	2.7	-	1.0E+02	-	3E-02
34	Ethanol	Outdoor Air	64-17-5	5.6	-	-	-	-
34	Ethylbenzene	Outdoor Air	100-41-4	0.31	1.1E+00	1.0E+03	3E-07	3E-04
34	Isopropyl alcohol	Outdoor Air	67-63-0	2.4	-	2.1E+02	-	1E-02
34	Methane (CH4)	Outdoor Air	74-82-8	86	-	-	-	-
34	Methyl ethyl ketone	Outdoor Air	78-93-3	0.97	-	5.2E+03	-	2E-04
34	Toluene	Outdoor Air	108-88-3	1.6	-	3.1E+02	-	5E-03
34	Total Xylenes	Outdoor Air	1330-20-7	1.5	-	1.0E+02	-	2E-02
34	Trichlorofluoromethane	Outdoor Air	75-69-4	1.3	-	1.3E+03	-	1E-03
Cumulative:							7E-06	3E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Indoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 34

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Cancer Risk (ILCR)	Index (HI)
34	1,1-Difluoroethane	Indoor Air	75-37-6	1.6	-	4.2E+04	-	4E-05
34	1,1,2-Trichloro-1,2,2-trifluoroethane	Indoor Air	76-13-1	0.62	-	5.2E+03	-	1E-04
34	1,2,4-Trimethylbenzene	Indoor Air	95-63-6	0.98	-	6.3E+01	-	2E-02
34	Acetone	Indoor Air	67-64-1	68	-	3.2E+04	-	2E-03
34	Benzene	Indoor Air	71-43-2	0.95	9.7E-02	3.1E+00	1E-05	3E-01
34	Dichlorodifluoromethane	Indoor Air	75-71-8	3.1	-	1.0E+02	-	3E-02
34	Ethanol	Indoor Air	64-17-5	110	-	-	-	-
34	Ethyl acetate	Indoor Air	141-78-6	1.6	-	7.3E+01	-	2E-02
34	Ethylbenzene	Indoor Air	100-41-4	0.62	1.1E+00	1.0E+03	6E-07	6E-04
34	Isopropyl alcohol	Indoor Air	67-63-0	6.9	-	2.1E+02	-	3E-02
34	Methane (CH ₄)	Indoor Air	74-82-8	6.3	-	-	-	-
34	Methyl ethyl ketone	Indoor Air	78-93-3	1.5	-	5.2E+03	-	3E-04
34	n-Heptane	Indoor Air	142-82-5	0.53	-	4.2E+02	-	1E-03
34	Styrene	Indoor Air	100-42-5	0.81	-	9.4E+02	-	9E-04
34	Toluene	Indoor Air	108-88-3	2.4	-	3.1E+02	-	8E-03
34	Total Xylenes	Indoor Air	1330-20-7	3.1	-	1.0E+02	-	3E-02
34	Trichlorofluoromethane	Indoor Air	75-69-4	1.4	-	1.3E+03	-	1E-03
Cumulative:							1E-05	5E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Outdoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 35

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental Lifetime Cancer Risk (ILCR)	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)		
35	1,1-Difluoroethane	Outdoor Air	75-37-6	0.72	-	4.2E+04	-	2E-05
35	1,1,2-Trichloro-1,2,2-trifluoroethane	Outdoor Air	76-13-1	0.6	-	5.2E+03	-	1E-04
35	Acetone	Outdoor Air	67-64-1	4.5	-	3.2E+04	-	1E-04
35	Benzene	Outdoor Air	71-43-2	0.9	9.7E-02	3.1E+00	9E-06	3E-01
35	Chloromethane	Outdoor Air	74-87-3	1.1	-	9.4E+01	-	1E-02
35	Dichlorodifluoromethane	Outdoor Air	75-71-8	2.2	-	1.0E+02	-	2E-02
35	Ethanol	Outdoor Air	64-17-5	7.9	-	-	-	-
35	Ethylbenzene	Outdoor Air	100-41-4	0.43	1.1E+00	1.0E+03	4E-07	4E-04
35	Hexane	Outdoor Air	110-54-3	0.56	-	7.3E+02	-	8E-04
35	Isopropyl alcohol	Outdoor Air	67-63-0	4.5	-	2.1E+02	-	2E-02
35	Methane (CH4)	Outdoor Air	74-82-8	5.5	-	-	-	-
35	Methyl ethyl ketone	Outdoor Air	78-93-3	0.83	-	5.2E+03	-	2E-04
35	Propylene	Outdoor Air	115-07-1	0.93	-	3.1E+03	-	3E-04
35	Toluene	Outdoor Air	108-88-3	2	-	3.1E+02	-	6E-03
35	Total Xylenes	Outdoor Air	1330-20-7	2	-	1.0E+02	-	2E-02
35	Trichlorofluoromethane	Outdoor Air	75-69-4	1.4	-	1.3E+03	-	1E-03
Cumulative:							1E-05	4E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Indoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 35

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental Lifetime Cancer Risk (ILCR)	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)		
35	1,1-Difluoroethane	IA	75-37-6	1.7	-	4.2E+04	-	4E-05
35	1,1,1-Trichloroethane	IA	71-55-6	0.082	-	1.0E+03	-	8E-05
35	1,1,2-Trichloro-1,2,2-trifluoroethane	IA	76-13-1	0.6	-	5.2E+03	-	1E-04
35	Acetone	IA	67-64-1	8.1	-	3.2E+04	-	3E-04
35	Benzene	IA	71-43-2	0.88	9.7E-02	3.1E+00	9E-06	3E-01
35	Chloromethane	IA	74-87-3	1.3	-	9.4E+01	-	1E-02
35	Dichlorodifluoromethane	IA	75-71-8	2.2	-	1.0E+02	-	2E-02
35	Ethanol	IA	64-17-5	56	-	-	-	-
35	Ethyl acetate	IA	141-78-6	2.5	-	7.3E+01	-	3E-02
35	Ethylbenzene	IA	100-41-4	0.5	1.1E+00	1.0E+03	5E-07	5E-04
35	Hexane	IA	110-54-3	0.81	-	7.3E+02	-	1E-03
35	Isopropyl alcohol	IA	67-63-0	8.9	-	2.1E+02	-	4E-02
35	Methane (CH ₄)	IA	74-82-8	140	-	-	-	-
35	Methyl ethyl ketone	IA	78-93-3	1.3	-	5.2E+03	-	3E-04
35	Toluene	IA	108-88-3	2.1	-	3.1E+02	-	7E-03
35	Total Xylenes	IA	1330-20-7	2.3	-	1.0E+02	-	2E-02
35	Trichlorofluoromethane	IA	75-69-4	1.4	-	1.3E+03	-	1E-03
Cumulative:							1E-05	4E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)
2. - = no screening value

Summary of Outdoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 36

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	
36	1,1-Difluoroethane	Outdoor Air	75-37-6	0.86	-	4.2E+04	-	2E-05
36	1,1,2-Trichloro-1,2,2-trifluoroethane	Outdoor Air	76-13-1	0.57	-	5.2E+03	-	1E-04
36	Acetone	Outdoor Air	67-64-1	4.1	-	3.2E+04	-	1E-04
36	Benzene	Outdoor Air	71-43-2	0.85	9.7E-02	3.1E+00	9E-06	3E-01
36	Dichlorodifluoromethane	Outdoor Air	75-71-8	2.1	-	1.0E+02	-	2E-02
36	Ethanol	Outdoor Air	64-17-5	7.3	-	-	-	-
36	Ethylbenzene	Outdoor Air	100-41-4	0.43	1.1E+00	1.0E+03	4E-07	4E-04
36	Isopropyl alcohol	Outdoor Air	67-63-0	3.2	-	2.1E+02	-	2E-02
36	Methane (CH ₄)	Outdoor Air	74-82-8	2.1	-	-	-	-
36	Toluene	Outdoor Air	108-88-3	1.9	-	3.1E+02	-	6E-03
36	Total Xylenes	Outdoor Air	1330-20-7	2	-	1.0E+02	-	2E-02
36	Trichlorofluoromethane	Outdoor Air	75-69-4	1.3	-	1.3E+03	-	1E-03
Cumulative:							9E-06	3E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Indoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 36

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard Index (HI)
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	
36	1,1-Difluoroethane	Indoor Air	75-37-6	3.4	-	4.2E+04	-	8E-05
36	1,1,2-Trichloro-1,2,2-trifluoroethane	Indoor Air	76-13-1	0.57	-	5.2E+03	-	1E-04
36	1,2,4-Trimethylbenzene	Indoor Air	95-63-6	0.49	-	6.3E+01	-	8E-03
36	1,4-Dichlorobenzene	Indoor Air	106-46-7	3.9	2.6E-01	8.3E+02	2E-05	5E-03
36	Acetone	Indoor Air	67-64-1	15	-	3.2E+04	-	5E-04
36	Benzene	Indoor Air	71-43-2	0.87	9.7E-02	3.1E+00	9E-06	3E-01
36	Cyclohexane	Indoor Air	110-82-7	0.38	-	6.3E+03	-	6E-05
36	Dichlorodifluoromethane	Indoor Air	75-71-8	2	-	1.0E+02	-	2E-02
36	Ethanol	Indoor Air	64-17-5	110	-	-	-	-
36	Ethyl acetate	Indoor Air	141-78-6	1.2	-	7.3E+01	-	2E-02
36	Ethylbenzene	Indoor Air	100-41-4	0.56	1.1E+00	1.0E+03	5E-07	6E-04
36	Hexane	Indoor Air	110-54-3	0.67	-	7.3E+02	-	9E-04
36	Isopropyl alcohol	Indoor Air	67-63-0	130	-	2.1E+02	-	6E-01
36	Methane (CH ₄)	Indoor Air	74-82-8	79	-	-	-	-
36	Methyl ethyl ketone	Indoor Air	78-93-3	1.2	-	5.2E+03	-	2E-04
36	n-Heptane	Indoor Air	142-82-5	0.74	-	4.2E+02	-	2E-03
36	Styrene	Indoor Air	100-42-5	0.51	-	9.4E+02	-	5E-04
36	Toluene	Indoor Air	108-88-3	2.4	-	3.1E+02	-	8E-03
36	Total Xylenes	Indoor Air	1330-20-7	2.6	-	1.0E+02	-	3E-02
36	Trichlorofluoromethane	Indoor Air	75-69-4	1.3	-	1.3E+03	-	1E-03
Cumulative:							2E-05	1E+00

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Outdoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 37

PropertyID	Analyte	Type of Air			Cancer Screening	Non-Cancer Screening	Incremental	Hazard
		Sample	CAS Number	EPC ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	Index (HI)
37	1-Ethyl-4-methylbenzene	Outdoor Air	622-96-8	0.59	-	-	-	-
37	1,1-Difluoroethane	Outdoor Air	75-37-6	0.54	-	4.2E+04	-	1E-05
37	1,1,2-Trichloro-1,2,2-trifluoroethane	Outdoor Air	76-13-1	0.58	-	5.2E+03	-	1E-04
37	1,2,4-Trimethylbenzene	Outdoor Air	95-63-6	0.74	-	6.3E+01	-	1E-02
37	Acetone	Outdoor Air	67-64-1	8.3	-	3.2E+04	-	3E-04
37	Benzene	Outdoor Air	71-43-2	0.67	9.7E-02	3.1E+00	7E-06	2E-01
37	Chloromethane	Outdoor Air	74-87-3	1	-	9.4E+01	-	1E-02
37	Dichlorodifluoromethane	Outdoor Air	75-71-8	2.4	-	1.0E+02	-	2E-02
37	Ethanol	Outdoor Air	64-17-5	8.6	-	-	-	-
37	Ethylbenzene	Outdoor Air	100-41-4	0.28	1.1E+00	1.0E+03	3E-07	3E-04
37	Hexane	Outdoor Air	110-54-3	1.7	-	7.3E+02	-	2E-03
37	Isopropyl alcohol	Outdoor Air	67-63-0	4.2	-	2.1E+02	-	2E-02
37	Methane (CH ₄)	Outdoor Air	74-82-8	2	-	-	-	-
37	Methyl ethyl ketone	Outdoor Air	78-93-3	0.71	-	5.2E+03	-	1E-04
37	n-Heptane	Outdoor Air	142-82-5	1	-	4.2E+02	-	2E-03
37	Toluene	Outdoor Air	108-88-3	1.4	-	3.1E+02	-	5E-03
37	Total Xylenes	Outdoor Air	1330-20-7	1.4	-	1.0E+02	-	1E-02
37	Trichlorofluoromethane	Outdoor Air	75-69-4	1.3	-	1.3E+03	-	1E-03
Cumulative:							7E-06	3E-01

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value

Summary of Indoor Air Hazard Indices and Incremental Lifetime Cancer Risk Estimates
Residence 37

PropertyID	Analyte	Type of Air		EPC ($\mu\text{g}/\text{m}^3$)	Cancer Screening	Non-Cancer Screening	Incremental	Hazard
		Sample	CAS Number		Level ($\mu\text{g}/\text{m}^3$)	Level ($\mu\text{g}/\text{m}^3$)	Lifetime Cancer Risk (ILCR)	Index (HI)
37	1,1-Difluoroethane	Indoor Air	75-37-6	2.7	-	4.2E+04	-	6E-05
37	1,1,2-Trichloro-1,2,2-trifluoroethane	Indoor Air	76-13-1	0.59	-	5.2E+03	-	1E-04
37	1,2,4-Trimethylbenzene	Indoor Air	95-63-6	0.64	-	6.3E+01	-	1E-02
37	Acetone	Indoor Air	67-64-1	40	-	3.2E+04	-	1E-03
37	Benzene	Indoor Air	71-43-2	0.85	9.7E-02	3.1E+00	9E-06	3E-01
37	Carbon disulfide	Indoor Air	75-15-0	0.34	-	7.3E+02	-	5E-04
37	Chloromethane	Indoor Air	74-87-3	1.4	-	9.4E+01	-	1E-02
37	Dichlorodifluoromethane	Indoor Air	75-71-8	2.5	-	1.0E+02	-	3E-02
37	Ethanol	Indoor Air	64-17-5	230	-	-	-	-
37	Ethyl acetate	Indoor Air	141-78-6	2.5	-	7.3E+01	-	3E-02
37	Ethylbenzene	Indoor Air	100-41-4	0.51	1.1E+00	1.0E+03	5E-07	5E-04
37	Hexane	Indoor Air	110-54-3	1.2	-	7.3E+02	-	2E-03
37	Isopropyl alcohol	Indoor Air	67-63-0	480	-	2.1E+02	-	2E+00
37	Methane (CH ₄)	Indoor Air	74-82-8	4.8	-	-	-	-
37	Methyl ethyl ketone	Indoor Air	78-93-3	1.4	-	5.2E+03	-	3E-04
37	n-Heptane	Indoor Air	142-82-5	0.7	-	4.2E+02	-	2E-03
37	Toluene	Indoor Air	108-88-3	2.3	-	3.1E+02	-	7E-03
37	Total Xylenes	Indoor Air	1330-20-7	2.2	-	1.0E+02	-	2E-02
37	Trichlorofluoromethane	Indoor Air	75-69-4	1.6	-	1.3E+03	-	1E-03
Cumulative:							9E-06	3E+00

1. Concentrations are shown in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

2. - = no screening value