

# Appendix A

## Phase I Environmental Site Assessment

## **PHASE I ENVIRONMENTAL SITE ASSESSMENT**

School Yard/Parking Lot  
285 12<sup>th</sup> Street  
Oakland, California

Prepared For:

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## PHASE I ENVIRONMENTAL SITE ASSESSMENT

### EXECUTIVE SUMMARY

This report presents the results of a Phase I Environmental Site Assessment (ESA) for the property located at 285 12<sup>th</sup> Street in Oakland, California (the site; Figure 1). Geo Blue Consulting, Inc. (Geo Blue), performed this ESA on behalf of the East Bay Asian Local Development Corporation of Oakland, California (EBALDC). Geo Blue understands the property currently is owned by a consortium of 17 parties, including trusts and individuals of the Cochran and Celli families, collectively identified herein as the “Cochran & Celli consortium.” EBALDC informed Geo Blue that it intends to construct a 7-story mixed use development at the property, including at-grade parking and commercial space on the ground floor, and residential units on the overlying floors.

The approximately 15,000 square-foot site is located at 285 12<sup>th</sup> Street, Oakland, California, in downtown Oakland. The site is identified by Assessor’s Parcel Number (APN) 2-69-3-1, and is within Oakland’s Central Business District, which includes residential, commercial, and other land uses. The property is bounded by 12<sup>th</sup> Street to the north, Harrison Street to the west, and adjoining commercial properties to the south and the east. The property is occupied by a paved school yard, and includes an approximately 500 square-foot structure located adjacent to the southern property boundary. The structure was constructed as a car sales office and contains offices, restrooms, and a mechanical room.

Beginning between 1903 and 1911, the site was used for automotive service and repair work. The 1950 Sanborn map indicates office uses at the site. Between 1911 and the mid-1960s, it appears that site operations included various commercial uses, ranging from automobile repairs, to sales, and to a cocktail lounge. Cochran and Celli replaced office uses with automobile sales at the site in the mid-1960s. Automobile sales were conducted at the site until the mid-1990s, when the lot was converted to a playground for a school located at 301 12<sup>th</sup> Street.

Soil, groundwater and soil gas samples were collected and analyzed from the site in 2015. Two locations were drilled at the site: borings B-6 and B-7. In addition, in 2016 and 2017, groundwater samples were collected near the western and northern site boundaries as part of the cleanup case at 301 12<sup>th</sup> Street from borings GB11 and GB13 and monitoring well GW-10.

Undocumented fill was observed at the site, and shallow soil sample B7-2.5 was reported to contain 110 milligrams per kilogram (mg/kg) lead and 410 mg/kg TPHmo. The Draft Phase II ESA prepared by Langan in 2015 reported TPHd and 1,2-DCA in groundwater sample GW-B6. Langan reported <0.5 ug/L TCE in groundwater in boring B-6, and the TCE concentration in soil gas from boring B-6 was 43 micrograms per cubic meter (ug/m<sup>3</sup>). PES later detected 13 ug/L TCE in groundwater in well GW-10, located in Harrison Street, adjacent to the site. As described in Section 7.0 of this report, (1) the reported lead concentration in soil is greater than residential and less than commercial ESLs; (2) the reported soil gas concentrations are less than potentially applicable screening or action levels; and (3) the reported groundwater concentrations are greater than drinking water screening levels and potentially applicable screening levels for vapor intrusion, however, soil gas data is preferred over groundwater data for evaluation of potential vapor intrusion, and the California Department of Toxic Substances Control (DTSC) expects the cleanup at 301 12<sup>th</sup> Street to improve groundwater conditions in the site vicinity over time.

Historical operations at adjoining parcels (within the same city block), included automobile repair, brake repair, printing, and potentially dry cleaning. Based on the northeastward groundwater flow direction interpreted by PES, some of these adjacent historical uses were upgradient of the site. Gin's ARCO Service located at 288 11<sup>th</sup> Street was an automobile service station and operated at the adjoining property between 1928 and 2004.

Release(s) of volatile organic compounds (VOCs) including trichloroethene (TCE) to the subsurface at 301 12<sup>th</sup> Street is under investigation with DTSC oversight. Pursuant to a DTSC-approved workplan, offsite monitoring wells were installed, and a cleanup plan was approved by the DTSC on 18 October 2017. Groundwater containing TCE has likely migrated from 301 12<sup>th</sup> Street toward the site.

Geo Blue has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 of the property located at 285 12<sup>th</sup> Street, Oakland, California. No deviations or deletions from ASTM Standard E 1527-13 were made during preparation of this ESA. This assessment has revealed no evidence of RECs in connection with the property, except for the following:

- Former automotive service operations at the site, conducted during the early 1900s, and potentially over an approximately 40-year time period, and the results from sampling performed at the site in 2015, including reported detections of

TPHg, TPHd, TPHmo, benzene, toluene, acetone, 1,3-butadiene, chloromethane, cyclohexane, 1,3-dichlorobenzene, n-hexane, methyl ethyl ketone, methyl isobutyl ketone, lead, 1,2-DCA, TCE in the site subsurface; and

- The offsite presence of historical automotive and historical cleaning operations immediately adjacent and potentially upgradient, of the site, including the former Gin's ARCO service station, and the 301 12<sup>th</sup> Street cleanup case.

In consideration of these REC's and EBALDC's development plans for the site, a site management plan for construction and additional evaluation of the potential for vapor intrusion to the future onsite structure likely will be needed. Because the TCE release at 301 12<sup>th</sup> Street appears to have migrated to the site, and may continue to migrate to the site in the future and therefore has the potential to result in vapor intrusion or other concerns relative to EBALDC's future construction, this offsite release is a REC in connection with the site. In addition, other offsite operations or historical offsite operations adjacent to the site, including the former Gin's ARCO service station, have the potential for releases to the subsurface that could have migrated or could potentially migrate in the future to the site. Accordingly, potential impacts from offsite releases to EBALDC's planned project should be addressed. However, it is not the practice of most cleanup oversight agencies to require offsite cleanup by a downgradient property owner who has been affected by an upgradient release.

## PHASE I ENVIRONMENTAL SITE ASSESSMENT

School Yard/Parking Lot  
285 12<sup>th</sup> Street  
Oakland, California

### 1.0 INTRODUCTION

This report presents the results of a Phase I Environmental Site Assessment (ESA) for the property located at 285 12<sup>th</sup> Street in Oakland, California (Figure 1). Geo Blue Consulting, Inc. (Geo Blue), performed this ESA on behalf of the East Bay Asian Local Development Corporation of Oakland, California (EBALDC). Geo Blue understands the property currently is owned by a consortium of 17 parties, including trusts and individuals of the Cochran and Celli families, collectively identified herein as the “Cochran & Celli consortium.” EBALDC informed Geo Blue that it intends to construct a 7-story mixed use development at the property, including at-grade parking and commercial on the ground floor and residential units on the overlying floors.

This ESA was conducted in accordance with the ASTM International (ASTM) E 1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM Standard, 2013). The completion of this Phase I ESA report may be used to satisfy one of the requirements for the User to qualify for the *innocent landowner*, *contiguous property owner*, or *bona fide prospective purchaser* defenses to liability pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), thereby constituting all *appropriate inquiries into the previous ownership and uses of the property consistent with good commercial or customary practice* as defined by 42 U.S.C. §9601(35)(B) of CERCLA.

### 1.1 PURPOSE

The purpose of the ESA is to compile and review available information about the site and immediate vicinity to identify *recognized environmental conditions* (RECs) to the extent feasible pursuant to ASTM E 1527-13. According to the ASTM Standard, a REC is defined as:

“the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground

water, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a threat to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies.”<sup>1</sup>

## 1.2 REASON FOR PERFORMING THE ESA

As stated above, EBALDC intends to construct a 7-story mixed-use structure at the site. This ESA has been prepared using the ASTM Standard and constitutes “*all appropriate inquiry* into the previous ownership and uses of the property consistent with good commercial or customary practice” as defined at 42 United States Code (U.S.C.) §9601(35)(B).

## 1.3 SCOPE OF SERVICES

The scope of services for this ESA is described in the 7 April 2017 Geo Blue proposal to EBALDC. This ESA included the following tasks:

- Conducting a site reconnaissance to observe and document current conditions and activities at the site.
- Conducting a visual survey of immediately adjacent parcels from the subject site or from public streets.
- Interviewing the site owner and occupant as identified by EBALDC.
- Interviewing past owners and occupants of the site if identified by the current owner.
- Interviewing a representative of a local environmental regulatory agency regarding potential environmental conditions, if applicable.
- Reviewing a current United States Geological Survey (USGS) 7.5 Minute topographic map showing the area on which the site is located.
- Reviewing historical documents, state, tribal and local government records or other restrictions on the site going back to the first time the site had structures or was used for residential, agricultural, commercial, industrial, or governmental purposes, if readily available.

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<sup>1</sup> The AAI Final Rule applies to “...conditions indicative of releases and threatened releases of hazardous substances...(and) petroleum or petroleum products are excluded from the definition of hazardous substance...” (40 CFR 312.1).

- Reviewing available historical aerial photographs for the site and vicinity.
- Reviewing available Sanborn Fire Insurance maps for the site and vicinity.
- Reviewing available historical topographic maps for the site and vicinity.
- Obtaining a regulatory database search report to identify reported on-site and off-site chemical releases that may affect soil or groundwater conditions at the site.
- Reviewing a report of environmental liens against the site, if provided or authorized to be obtained by the User.
- Reviewing selected agency files identified in the regulatory database search report to obtain current status of environmental assessments and/or remediation at the site and nearby properties.
- Reviewing environmental documents related to the site provided by EBALDC.
- Evaluating the data and identifying data gaps, open issues, and key uncertainties.
- Preparing a report documenting these activities and identified *recognized environmental conditions*, including our opinions on the significance of the data gaps insofar as they impact the ability to identify possible contamination.

#### 1.4 EXCLUSIONS

This ESA did not include collection and chemical analysis of samples of soil, water, or air; or an evaluation of seismic characteristics, which are not required parts of the scope of a Phase I ESA. In addition, according to the ASTM Standard, the following issues are not part of the scope of a Phase I ESA:

- |  |                      |                         |
|--|----------------------|-------------------------|
| • Asbestos-containing building materials | • Radon              | • Lead-based paint      |
| • Lead in drinking water                 | • Wetlands           | • Regulatory compliance |
| • Cultural and historic resources        | • Industrial hygiene | • Health and safety     |
| • Ecological resources                   | • Endangered species | • Mold                  |



- Biological agents
- Indoor air quality unrelated to releases of hazardous substances or petroleum product into the environment

No additional services were performed outside the scope of the ASTM E 1527-13 standard.

### **1.5 SIGNIFICANT ASSUMPTIONS**

Based on surface topography and groundwater investigation reports prepared for the property located at 301 12<sup>th</sup> Street, Oakland, California, groundwater flow direction at the site is assumed to be dominantly to the northeast, and historical groundwater flow direction is assumed to have varied. The site is located in an area with relatively flat and level topography, which is further described in Section 2.2.1. Geo Blue did not measure groundwater elevations during this Phase I ESA to evaluate the likely groundwater flow direction at the subject property.

### **1.6 LIMITATIONS**

In preparing this report, Geo Blue has relied upon information provided by others. Geo Blue did not attempt to independently verify the accuracy or completeness of that information. To the extent that the opinion and conclusions in this report are based in whole or in part on such information, those conclusions are contingent on its accuracy and validity.

This report does not constitute legal advice. In addition, Geo Blue makes no determination or recommendations regarding the decision to purchase, sell, or provide financing for the site.

#### ***Time Constraint***

The opinion and conclusions presented in this report are only based on the site conditions observed and information reviewed at the time of this assessment. Information pertaining to site conditions or changes may exist that Geo Blue is not aware of or which we have not had the opportunity to evaluate within the time available for this ESA.

#### ***Uncertainty Not Eliminated***

Per the ASTM Standard, no ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. The use of the ASTM Standard is intended to reduce, but not eliminate, this uncertainty.

Within the limitations of the agreed-upon scope of work and the ASTM Standard, Geo Blue has conducted this ESA in a professional manner in accordance with generally accepted practices, using the degree of skill and care ordinarily exercised by environmental consultants under similar circumstances. Due to physical limitations inherent to this or any environmental assessment, Geo Blue does not warrant that the site is free of pollutants or that all pollutants have been identified. As such, no absolute determination of environmental risks can be made. No other warranties, expressed or implied, are made.

### ***Reliance on Information Provided by Others***

Geo Blue has relied upon information provided by others in the evaluation of environmental site conditions reported herein. Geo Blue did not attempt to independently verify the accuracy or completeness of that information. To the extent that the opinion and conclusions in this report are based in whole or in part on such information, those conclusions are contingent on its accuracy and validity. Geo Blue assumes no responsibility for any consequence arising from any information or condition that was concealed, withheld, misrepresented, or otherwise not fully disclosed or available to Geo Blue.

### **1.7 USER RELIANCE**

This ESA report has been prepared by Geo Blue for the express use of EBALDC. No other parties shall rely on this report without the written consent from Geo Blue and EBALDC. EBALDC may release this report to third parties; however, such third party in using this report agrees that it shall have no legal recourse against Geo Blue, its parent, or subsidiaries.

## **2.0 SITE DESCRIPTION**

The characteristics and uses of the Property and vicinity are described in the following sections. The site location is shown on Figure 1, and a site plan is included as Figure 2.

### **2.1 LOCATION AND LEGAL DESCRIPTION**

The approximately 15,000 square-foot site is located at 285 12<sup>th</sup> Street, Oakland, California, in an industrial area. The site is identified by Assessor's Parcel Number (APN) 2-69-3-1, and is within the City of Oakland's Lake Merritt BART Station Area Plan. The Chicago Title Company Preliminary Report provided to Geo Blue by EBALDC is included in Appendix A, and includes the following legal description of the property: "The land referred to herein below is situated in the City of Oakland, in the County of Alameda, State of California, and is described as follows: Lots 5, 6, 7, 8, 9, 10 and 11, Block 162, Kellersberger's Map of Oakland, filed

September 2, 1853, in Map Book 7, Page 3, Alameda County Records. APN: 002-0069-003-01." The property is bounded by 12<sup>th</sup> Street to the north and Harrison Street to the west.

## **2.2 SITE AND VICINITY GENERAL CHARACTERISTICS**

The general site setting and the geology and hydrogeology in the vicinity of the site are summarized in the following paragraphs.

### **2.2.1 General Site Setting**

In general terms, the subject property is located in urban downtown Oakland, within the central business area and adjacent to or within Oakland's historical Chinatown area. The area is densely populated and developed. The USGS topographic map, 7.5-minute, Oakland West Quadrangle, 2015, shows the site area as relatively flat and level. To the south of the site, ground surface slopes gently downward to the south, towards the Oakland Inner Harbor. To the west of the site, ground surface rises gently toward Broadway, then slopes downward gently to the west. To the north of the site, ground surface slopes gently downward toward the northwest. And, to the east of the site, ground surface slopes gently downward to the east, toward Lake Merritt.

### **2.2.2 Geology and Hydrogeology**

Surficial geology at the site is mapped (Radbruch, 1957) as Merritt Sand. In general, this geologic unit is comprised of beach or near-shore deposits of slightly clayey, silty sand. PES Environmental, Inc., (PES) conducted subsurface investigations in the site vicinity in 2016 and reported the findings to the DTSC. PES reported up to 4 feet of non-native fill, overlying native silty sands and poorly-graded sands with occasional discontinuous interbeds of silts and clays to between approximately 35 and 38 feet below ground surface (bgs). The native sands are identified as Merritt Sand. PES further reported very stiff to hard clays and silts with occasional inbedded layers of silty sands from the base of the Merritt Sand to the total explored depth of the PES investigations of 75 feet bgs. PES reported the depth to groundwater in the site vicinity ranged between 18 and 24 feet bgs, and calculated a horizontal gradient to the north-northeast. PES reported that previous investigations had interpreted an eastward groundwater flow direction.

## **2.3 CURRENT USE OF THE SITE AND ADJOINING PARCELS**

The site is currently a vacant school yard. It is asphalt-paved and includes an approximately 500 square-foot office building with a restroom. Based on information provided by the Martin

Group, Geo Blue understands that the former tenant was Amethod Public Schools (AMPS). The adjoining properties to the south are occupied by several retail and service businesses, and the adjoining property to the east appears to be occupied by a residential hotel.

## **2.4 DESCRIPTIONS OF STRUCTURES, ROADS, AND OTHER IMPROVEMENTS**

The subject property is accessed from 12<sup>th</sup> or Harrison Streets. The property is paved and fenced, and includes an approximately 500 square-foot building on its southern boundary. Heating/cooling systems to the building were not observed but appear unlikely to exist, water supply to the property provides water to the restroom and to drinking fountains located in the southeast corner of the property. The public water system for the region is the East Bay Municipal Utility District (EBMUD). The EBMUD is the local agency responsible for sewer service.

## **3.0 INFORMATION PROVIDED BY USER**

At the request of Geo Blue, EBALDC completed an ESA questionnaire for the site on 12 July 2017. The purpose of the questionnaire was to gather information from EBALDC, user of this ESA, regarding the site. The questionnaire was completed by Ms. Capri Roth, Project Manager for EBALDC. A copy of the completed questionnaire is included in Appendix B. In addition, EBALDC performed additional research of the past property uses and summarized its findings in electronic messages dated 26 October 2017 and 3 November 2017. Copies of the electronic mail messages are included in Appendix B. Specific information about the site provided by EBALDC is described in the following sections.

### **3.1 TITLE RECORDS AND ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS**

According to Ms. Roth, EBALDC does not have knowledge regarding environmental liens or activity and use limitations of the site. EBALDC provided a preliminary title report prepared by Chicago Title Company, which is included in Appendix A. The Preliminary Title Report identifies a 3 December 2007 notice that the site is within an area of the Central District Redevelopment Project; a 19 May 2015 Memorandum of Agreement; and an 8 May 2017 indenture agreement executed by Richard Cochran relating to groundwater monitoring wells. No other lien or title reports or the results of a liens and activity and use limitations search were provided by EBALDC to Geo Blue. The indenture agreement for monitoring wells appears related to wells installed for the purpose of monitoring groundwater contamination related to the cleanup case at 301 12<sup>th</sup> Street, Oakland, California.

### **3.2 SPECIALIZED KNOWLEDGE**

Pursuant to the questionnaire, EBALDC did not provide any specialized knowledge about the particular site to Geo Blue.

### **3.3 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION**

According to the questionnaire responses, EBALDC was not aware of past uses of the property, specific chemicals that are present or once were present at the property, spills or other chemicals releases that have taken place at the property, or any environmental cleanups that have taken place at the property, other than the information summarized in the 2015 Langan Draft Phase II Environmental Site Assessment. In addition, the property at 301 12<sup>th</sup> Street, located across Harrison Street from the site, and owned by the Cochran & Celli consortium, is the subject of an ongoing cleanup case, overseen by the DTSC. Geo Blue's review of regulatory files for the cleanup case at 301 12<sup>th</sup> Street, Oakland, is summarized in Section 4.1.2. In October 2017, EBALDC conducted additional research into past uses of the property and determined that automotive repair work was likely conducted at the site in 1911 and 1912.

### **3.4 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES**

No information pertaining to property valuation reduction for environmental issues was provided to Geo Blue. Geo Blue understands that the property will be developed for commercial and residential uses, and that EBALDC understands that the reported presence of hazardous materials in the subsurface may result in increased construction costs or schedules. EBALDC stated that the property valuation is consistent with market conditions.

### **3.5 OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION**

EBALDC provided contact information for The Martin Group, which is the purchase option holder, to Geo Blue (Section 5). EBALDC provided a preliminary title report as indicated in Section 3.1. Pursuant to EBALDC's request to the Martin Group, the property owner representative, Mr. Richard Cochran, contacted Geo Blue to coordinate the site walk and owner interview.

### **3.6 OTHER INFORMATION – PREVIOUS ENVIRONMENTAL REPORTS**

EBALDC provided Geo Blue with the previous environmental reports for the site listed below. Geo Blue's review of each report is summarized below, and copies of the reports are included in Appendix C. In addition to the reports listed below, Geo Blue reviewed reports obtained from

the DTSC relative to the cleanup at 301 12<sup>th</sup> Street, Oakland, California. Geo Blue's review of agency files is summarized in Section 4.1.

1. Langan Treadwell Rollo. 2015. DRAFT Phase I Environmental Site Assessment, 301 and 285 12<sup>th</sup> Street, Oakland, California. Prepared for Emerge Development LLC. 11 October.

The Draft 2015 Phase I ESA report for the site, prepared by Langan Treadwell Rollo (Langan), states that automotive, dry cleaning, and printing uses at the site or neighboring properties were identified in historical records. In addition, Langan's Draft 2015 Phase I includes a vapor encroachment screen and concludes that nearby historic dry cleaners and automotive facilities may be associated with releases that have the potential to result in vapor encroachment conditions at the site.

2. Langan Treadwell Rollo. 2015. Preliminary Geotechnical Evaluation, 285 and 301 12<sup>th</sup> Street, Oakland, California. 3 November.

Langan's 2015 geotechnical report concludes that 1 to 4 feet of undocumented fill likely covers the site. No further site-specific information relative to potential RECs is provided by the 3 November 2015 geotechnical report.

3. Langan Treadwell Rollo. 2015. DRAFT Phase II Environmental Site Assessment, 301 and 285 12<sup>th</sup> Street, Oakland, California. Prepared for Emerge Development LLC. 1 December.

Langan's 2015 Draft Phase II ESA describes drilling of seven exploratory borings, including two at the site: borings B-6 and B-7. Langan reported detectable concentrations of analytes in samples collected in July 2015 from the site, including: total petroleum hydrocarbons as motor oil (TPH<sub>mo</sub>) and lead in soil; TPH as diesel (TPH<sub>d</sub>) and 1,2-dichloroethane (1,2-DCA) in groundwater; and volatile organic compounds (VOCs) in soil gas. Langan concluded in its draft report that, "multiple release sources from off-site properties and possibly from historic on-site activities have impacted the soil gas and groundwater conditions at [285 and 301 12<sup>th</sup> Street]." Langan further concluded that

groundwater flows to the east, from 301 12th Street, toward 285 12th Street. Langan's draft data is further discussed in Section 7.0.

4. PES Environmental, Inc. 2016. Subsurface Investigation Report, 301 and 285 12<sup>th</sup> Street and Vicinity, Oakland, California. Prepared for The Martin Group. 14 July.

PES Environmental, Inc. (PES)'s 2016 Subsurface Investigation Report summarizes investigations performed in February, May and June 2016. This report describes soil gas, soil, and groundwater impacts beneath the city block bounded by 11<sup>th</sup>, 12<sup>th</sup>, Webster, and Harrison Streets, including 301 12<sup>th</sup> Street, and extending offsite in soil gas and groundwater. The report also includes copies of the draft results for 285 12<sup>th</sup> Street from Langan's 2015 Phase II ESA. PES concluded that concentrations of trichloroethene (TCE) and other VOCs in the subsurface exceeded regulatory levels at the 301 12<sup>th</sup> Street location. In addition, PES concluded (1) groundwater flows toward the northwest; (2) TCE concentrations in soil gas decrease rapidly away from 301 12<sup>th</sup> Street; the TCE concentration of 43 ug/m<sup>3</sup> detected in soil gas at 285 12<sup>th</sup> Street is below the trigger level for indoor air sampling; (3) no PCE was detected in the groundwater sample collected from boring GB13, located north of 285 12<sup>th</sup> Street; and (4) 0.9 micrograms per liter (ug/L) TCE was detected in the groundwater sample from 21 to 31 feet bgs in boring GB11, located in Harrison Street, west of 285 12<sup>th</sup> Street; no TCE was detected in the deeper groundwater sample from boring GB11; the TCE concentration of 0.9 ug/L reported in the water table groundwater sample from boring GB11 is greater than the tap water Regional Screening Level from the U.S. EPA, May 2016, but below the Residential ESL for Vapor Intrusion of 6.9 ug/L from the San Francisco Bay Regional Water Quality Control Board, May 2016, Table W-3. PES submitted the 2016 Subsurface Investigation Report to the DTSC, and Geo Blue obtained a copy as part of the regulatory records review summarized in Section 4.1.2.

5. Langan Treadwell Rollo. 2016. Phase I Environmental Site Assessment, 301, 345, and 285 12<sup>th</sup> Street, Oakland, California. Prepared for the Martin Group. 14 July.



Langan's 2016 Phase I ESA concludes, "numerous historical dry-cleaning and auto service facilities have been located nearby [285, 301, and 345 12th Street]. Dry cleaning and auto service operations have typically used chlorinated solvents during their historical operations. The majority of these uses were unregulated and it is common to find environmental contamination resulting from these operations within their vicinity; due to the nature of the area being densely occupied by these historic activities." Langan's 2016 Phase I ESA describes the site use as a playground, and includes review of previous environmental reports for the property. The following reports for the site were included in Langan's 2016 Phase I ESA, and were unavailable to Geo Blue at the time of this ESA:

Eclipse Environmental Services (Eclipse). 2005. Environmental Site Assessment of Two Parcels in Oakland California. 1 July.

Treadwell & Rollo (T&R). 2006. Due Diligence Study Phase I Environmental Site Assessment Review and Due Diligence Geotechnical Consultation 12th Street Sites. 23 January.

#### **4.0 RECORDS REVIEW**

The records reviewed for this ESA included standard environmental databases, readily-available historical information, and documents provided by EBALDC. In addition, agency files for nearby sites with reported environmental contamination were reviewed. The information from the review of these documents is described in the following sections.

##### **4.1 STANDARD ENVIRONMENTAL RECORD SOURCES**

Geo Blue retained EDR of Shelton, Connecticut, to search federal, state, and tribal environmental regulatory databases to identify properties located within 1 mile of the site (ASTM, 2013) with documented environmental releases and/or those that use, store, or dispose of regulated chemicals. The radii of the database searches corresponded to the recommended radii in the ASTM Standard (ASTM, 2013). A list of the regulatory databases searched and the results are presented in the EDR Radius report, dated 26 May 2017, which is provided in Appendix D.

The following databases included the site or surrounding properties of interest and were considered those most likely to report properties with soil and/or groundwater impacts:



- CORRACTS
- RCRA-SQG
- RESPONSE
- ENVIROSTOR
- LUST
- SLIC
- ALAMEDA COUNTY CS
- UST
- AST
- VCP
- US BROWNFIELDS
- SWRCY
- HIST CAL-SITES
- SWEEPS
- HIST UST
- CA FID UST

Further description of the ASTM databases and descriptions of the ASTM supplemental databases that were searched are included in the EDR Radius report in Appendix D, pages GR-1 through GR-48. The information provided by EDR is limited to what has been reported or registered in each database. This information was used to evaluate whether these properties could potentially affect soil or groundwater beneath the site.

If the EDR report did not contain sufficient information to determine whether a property has the potential to affect the site or if the information provided by EDR indicated that a property does have the potential to affect the site, then Geo Blue requested access to review case files at the applicable regulatory agency. Geo Blue did not request information for properties listed as “orphan sites” by EDR that did not have any information regarding their locations relative to the site.

Based on these criteria, Geo Blue requested access to regulatory agency files for the sites listed in Table 1 on 24 July 2017. Locations of properties listed in Table 1 are shown on Overview Map – 4950190.2S and on Detail Map - 4950190.2S, which are included in the EDR database report in Appendix D. Geo Blue contacted the DTSC to obtain files pertaining to the cleanup at 301 12<sup>th</sup> Street, and Geo Blue contacted the local agency (Alameda County Department of Environmental Health) which is the Certified Unified Program Agency (CUPA) for the City of Oakland. The information reviewed in the case files made available by these agencies is presented in detail in Table 1 and summarized below.

#### 4.1.1 On-site

The subject property is not listed in any government databases. The subject property appears in EDR’s proprietary HIST Auto and HIST Cleaner databases. These non-governmental database listings are discussed in Section 4.4.

#### **4.1.2 Off-site**

EDR identified 342 government database listings for surrounding properties within the ASTM search radii. Including sites in EDR's proprietary historical databases, EDR plotted 370 locations with potential releases of hazardous materials or petroleum products in the site vicinity. Of the 370 locations, Geo Blue prioritized the sites listed in Table 1 based on the potential for a release to soil, groundwater or soil vapor at one of these properties to migrate to the subject property. Sites within the search radii identified in the EDR radius report that are not listed in Table 1 have a lower likelihood of affecting the subject property due to the distance from the subject property, their location relative to the estimated regional groundwater flow direction, the type or magnitude of a release at the surrounding area property, or other site-specific conditions.

Geo Blue also mapped the site and surrounding area using the State Water Resources Control Board (Water Board) online data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater, "Geotracker," and the DTSC online data management system for tracking DTSC's cleanup, permitting, enforcement and investigation efforts at hazardous waste facilities, "Envirostor." No open and potentially upgradient Cleanup Sites were listed in Geotracker in the Water Board LUST database within 0.5 mile; the Site Cleanup database within 1.0 mile, or the Military Cleanup Program database within 1.0 mile. One open and potentially upgradient Cleanup Site was listed in Envirostor in the DTSC Voluntary Cleanup database within 1.0 mile of the site. The search distances used by Geo Blue are the approximate minimum search distances specified in ASTM-1527.

Geo Blue obtained copies of DTSC files for 301 12<sup>th</sup> Street by contacting the DTSC, reviewing information posted to Envirostor, and downloading available technical reports from Envirostor in June and July 2017. On 24 July 2017, no files were available from the local agency (i.e., the Certified Unified Program Agency (CUPA)) for the remaining sites listed in Table 1.

#### **301 12<sup>th</sup> Street**

On 16 June 2017, Geo Blue downloaded reports from the State of California's Envirostor website. In addition, at the request of EBALDC, Geo Blue visited Envirostor a second time on 11 August 2017 to download a copy of the 28 July 2017 Response Plan prepared by PES Environmental. The summary below was prepared based on the reports obtained by Geo Blue on these two dates.

During a property transaction, subsurface contamination was reported at 301 12<sup>th</sup> Street. The DTSC began oversight of environmental work at the property in May 2016, through the DTSC Voluntary Cleanup Program. The buyer is conducting site cleanup activities pursuant to a proposed California Land Reuse and Revitalization Act (CLRRRA) cleanup agreement with the DTSC. The buyer intends to conduct site cleanup activities as part of a development project. Construction of the development will (1) remove the structures within the city block bounded by 11<sup>th</sup>, Harrison, 12<sup>th</sup>, and Webster Streets, (2) excavate site soil to construct a parking garage, (3) implement an in-situ groundwater cleanup program, and (4) build a multi-story mixed commercial-residential structure.

Onsite subsurface contamination at 301 12<sup>th</sup> Street includes petroleum and VOCs in soil gas and groundwater, and lead in shallow soil. The investigations conducted to date have concluded that groundwater flows northwestward from 301 12<sup>th</sup> Street and that TCE in groundwater extends northwestward to approximately 13<sup>th</sup> Street, and eastward toward the property at 285 12<sup>th</sup> Street. Monitoring well GW-10, located in Harrison Street adjacent to the site, contained 13 ug/L TCE and 1.3 ug/L PCE when sampled in April 2017. Water table grab groundwater samples from boring GB11, located west of the site, and boring GB13, located north of the site, contained TCE concentrations of 0.9 ug/L and less than the reporting limit of 0.5 ug/L, respectively. No TCE was detected above the reporting limit of 0.5 ug/L in the grab groundwater samples collected from 41 to 46 feet bgs in borings GB11 or GB13.

Offsite soil gas investigations have also been conducted as part of the 301 12<sup>th</sup> Street project. PES concludes that offsite soil gas is generally not impacted by TCE from 301 12<sup>th</sup> Street. The highest detected offsite concentration was 43 ug/m<sup>3</sup>, which was reported at 285 12<sup>th</sup> Street in boring B-6 in 2015. The groundwater and soil gas concentrations near 285 12<sup>th</sup> Street are discussed further in Section 7.0.

#### **4.1.3 Orphan Sites**

EDR provided a list of 9 properties that EDR could not locate due to incomplete address information. Geo Blue reviewed the information provided in the EDR report to assess whether they are listed in a database that indicates a potential release and/or impact to soil and groundwater. In addition, Geo Blue made an attempt to identify the orphan sites. Based on addresses included in the EDR report and with the use of an internet-based mapping service, Geo Blue was able to locate the properties. Based on the property locations and databases listing the orphan sites, the orphan sites are unlikely to impact the subject site.

#### **4.2 ADDITIONAL RECORDS REVIEW**

No additional historical records were reviewed by Geo Blue as part of this Phase I ESA.

#### **4.3 PHYSICAL SETTING SOURCES**

Geo Blue reviewed the USGS 2015 topographic map for the Oakland West, California quadrangle (USGS, 2015). In addition, the EDR Radius Map Report (Appendix D) includes a Physical Setting Source Summary for the site.

#### **4.4 HISTORICAL INFORMATION**

The following sources of information were obtained from EDR and used to compile historical information about the site:

- Aerial photographs dated 2012, 2010, 2009, 2005, 1998, 1993, 1982, 1974, 1968, 1963, 1958, 1946, 1939;
- Topographic maps dated 2012, 1996, 1997, 1980, 1973, 1968, 1959, 1949, 1948, 1915, 1899, 1897, 1895;
- Sanborn maps dated 1889, 1903, 1911, 1950, 1952, 1953, 1957, 1959, 1960, 1964, 1965, 1967, 1969; and
- City directory abstracts for the period of 1920 through 2014.

Aerial photographs are presented in Appendix E; historical topographic maps are presented in Appendix F; the EDR Sanborn map report is presented in Appendix G; and city directory abstracts are presented in Appendix H.

A summary of historical information pertaining to the site and its surroundings culled from the information sources listed above is presented herein.

##### **4.4.1 Historical Aerial Photographs**

Geo Blue reviewed historical aerial photographs of the site and vicinity from the years stated above. A summary of the information observed for the site and surrounding areas is presented below. Copies of the aerial photographs are presented in Appendix E.

The aerial photographs confirm the findings from Geo Blue's review of other site history sources. The 1939 aerial photograph shows the site covered by structures. Beginning with the 1968 aerial photograph, the site is visible in its current site configuration (i.e., open lot with approximately 500 square-foot sales office).

#### **4.4.2 Historical Topographic Maps**

Topographic maps were obtained from EDR for the years shown above. A description of the observations from the topographic map review is presented below. The topographic map scales ranged from 1:62,500 to 1:24,000. Copies of the topographic maps are included in Appendix F. Descriptions of the site and surrounding areas are presented below.

The site vicinity is developed with an urban grid plan in the 1895/1897 map, which is the earliest available map. The historical maps document the locations of historical regional features including rail lines, highways, and Bay Area Rapid Transit (BART) stations. Additional observations are presented in Table 2.

#### **4.4.3 Historical Sanborn Maps**

Sanborn fire insurance maps were obtained from EDR for the years shown above. A summary of the information observed for the site and surrounding areas is presented below. A copy of the Sanborn map report is presented in Appendix F.

The 1889 Sanborn map indicates residential use of the property. Carriage manufacturing and painting on the easternmost lot of the site are noted in the 1903 Sanborn map. The 1911 map labels site uses as garages, stove repairing, and unspecified commercial. The 1950 Sanborn map identifies site uses as office and unspecified commercial. The subsequent Sanborn maps show the site generally unchanged through 1964. The 1965 Sanborn map shows the current site layout: open lot with a small structure (former used cars sales office) on the southern property boundary. Additional observations from the Sanborn maps reviewed are presented in Table 3.

#### **4.4.4 City Directory Abstracts**

Geo Blue reviewed a historical city directory abstract for the site and surrounding area obtained from EDR. A summary of listings for the period of 1920 through 2014, using approximately 5 to 10-year intervals, were provided in the abstract. The city directory abstract is included as Appendix H of this report.

The city directory abstract lists the Cal Auto Sales Co. at the site in 1920; Wilber Auto Trimmings Manufacturing Co. in 1925; Wilber Chas C Anna Auto Tops in 1928; and Cochran and Celli at the site in 1967. Businesses listed for the site and surrounding properties generally are consistent with the area zoning and the regional use history, based on the database report, aerial photographs and historical topographic maps.

#### 4.4.5 Environmental Lien Records

EBALDC responded in the User Questionnaire that it is not aware of any environmental cleanup liens or activity and use limitations (AULs). A preliminary title report was provided to Geo Blue, and findings are summarized in Section 3.1. A title search was not included in Geo Blue's scope of services. Geo Blue reviewed the online list of sites with AULs maintained by the DTSC on Envirostor. The subject site was not on the list.

### 5.0 SITE RECONNAISSANCE

Robert Schultz of Geo Blue conducted the site reconnaissance on 19 July 2017 and was accompanied by Richard Cochran of the Cochran & Celli consortium. Geo Blue's observations are summarized in this section.

#### 5.1 METHODOLOGY AND LIMITING CONDITIONS

Mr. Schultz walked through the offices and rooms inside the site building, around the building exterior, the paved areas of the site, and public streets in the surrounding neighborhood. The weather consisted of mild temperatures, sunny skies, and no wind. Geo Blue took photographs during the site reconnaissance; copies of the photographs from the site reconnaissance are included in Appendix I.

#### 5.2 ON-SITE OBSERVATIONS

Geo Blue recorded the following observations to obtain information indicating the potential for recognized environmental conditions in connection with the property.

##### Onsite Reconnaissance Observations

Site Feature, Structure or Condition	Description
Hazardous materials storage or handling areas	None observed during the site reconnaissance.
Aboveground storage tanks and associated systems	None observed during the site reconnaissance.
Underground storage tanks and associated systems	None observed during the site reconnaissance.
Drums & containers (5 gallons or more)	None observed during the site reconnaissance.
Odors	None detected during the site reconnaissance.
Pools of liquid, including surface water bodies and sumps	None observed during the site reconnaissance.

Site Feature, Structure or Condition	Description
Heating/Cooling systems	None observed during the site reconnaissance.
Polychlorinated Biphenyls (PCBs)/Transformers	None observed during the site reconnaissance.
Stains or corrosion	None observed during the site reconnaissance.
Drains and sumps	A storm drain was visible in the northeastern quadrant of the site.
Pits, ponds & lagoons	None observed during the site reconnaissance.
Stressed vegetation	None observed during the site reconnaissance.
Historic fill material or any other fill material	None observed during the site reconnaissance.
Wastewater	The site owner reported that the site is connected to the publicly operated treatment works (POTW).
Septic systems or cesspools	None observed during the site reconnaissance.
Wells	None observed during the site reconnaissance.

### 5.3 ADJOINING AND SURROUNDING PROPERTIES

The site is bounded to the north by 12<sup>th</sup> Street, and to the west by Harrison Street. At the time of the site reconnaissance, businesses occupying the adjoining property to the south included a massage therapy salon, an ice cream shop, and a café. A three-story residential structure occupied the property located to the east. Across Harrison Street from the site, Mr. Schultz observed the partially vacant former Cochran & Celli automobile dealership building. The northeast corner of the structure was most recently occupied by Amethod Public Schools (AMPS), which operated a middle school at 301 12<sup>th</sup> Street; a sign in the storefront directed patrons to a new location. The Oakland Charter High School operated by AMPS previously located at 345 12<sup>th</sup> Street, had relocated at the time of the reconnaissance. A parking facility occupied the southern portion of the building at 301 12<sup>th</sup> Street.

### 6.0 INTERVIEWS

Concurrent with the site reconnaissance, Geo Blue interviewed a representative of the property owner, to obtain information regarding facility use, chemical usage, handling, and storage, and site history. In addition, Geo Blue interviewed a representative of the DTSC. Information obtained during these interviews is summarized in this section.



## **6.1 SITE REPRESENTATIVE**

Geo Blue interviewed Mr. Richard Cochran of the Cochran & Celli consortium concurrent with the site reconnaissance on 19 July 2017. Mr. Cochran is the key site manager for the site, and has been associated with the site since approximately 1962. The site is currently unoccupied. Mr. Cochran stated that the site was most recently occupied by a school, which used the site as a playground from approximately 1994 through 2016. Mr. Cochran stated that prior to use of the site as a school playground, it was used as a sales lot for used cars. Mr. Cochran stated that to his knowledge no vehicle fueling or service was performed at the site as part of the sales business. The site was converted for use as a sales lot in about 1966 when the previous site buildings were demolished. Mr. Cochran did not have contact information for preceding owners of the site. Mr. Cochran did not have information regarding the potential presence of USTs, sumps, piping, or other subsurface features related to automotive service, and potentially used for storage or transmission of hazardous materials or petroleum products (e.g., used solvents or waste oil). Mr. Cochran assisted in identifying the locations where he believed that Langan collected Phase II investigation samples in 2015, and pointed to the approximate location of PES monitoring well GW-10.

## **6.2 LOCAL GOVERNMENTAL OFFICIALS**

Geo Blue interviewed Mr. Harold (Bud) Duke of the DTSC to obtain information about the site and about the cleanup case at 301 12<sup>th</sup> Street on 24 July 2017. Envirostor identified the DTSC as the lead cleanup oversight agency, and Mr. Duke as the caseworker for 301 12<sup>th</sup> Street. Mr. Duke stated that a California Land Reuse and Revitalization Act (CLRRRA) agreement is being prepared for execution by the developer of 301 12<sup>th</sup> Street (i.e., The Martin Group), and that concurrently a response plan for cleanup is being prepared. The response plan is expected to be available for public comment and review during the last week of July 2017, and will include the most recent investigation data. The public comment period will be 30 days.

A Voluntary Cleanup Agreement (VCA) for 301 12<sup>th</sup> Street has been executed between the Cochran & Celli consortium/owners of 285 and 301 12<sup>th</sup> Street, and the DTSC. The VCA identifies the cleanup as 301 and 345 12<sup>th</sup> Street, APN 2-63-6. Because the figures included in the VCA identify 285 12<sup>th</sup> Street, in addition to 301 and 345 12<sup>th</sup> Street as part of the area covered by the VCA, Geo Blue asked the whether or not 285 12<sup>th</sup> Street is included in the 301 12<sup>th</sup> Street cleanup. Mr. Duke stated that 301 12<sup>th</sup> Street is the subject of the response plan being prepared by the developer. Mr. Duke further stated that detected offsite concentrations



of TCE are not likely to warrant enforcement and that the cleanup at 301 12<sup>th</sup> Street is expected to positively affect surrounding properties. Onsite cleanup and offsite monitoring is proposed for 301 12<sup>th</sup> Street.

## 7.0 DISCUSSION OF ANALYTICAL LABORATORY DATA

At the request of EBALDC, Geo Blue reviewed the analytical data collected for the site during previous investigations, and compared the concentrations to risk based screening levels. Risk based screening levels, including the California Regional Water Quality Control Board – San Francisco Bay Region Environmental Screening Levels, February 2016, Revision 3 (ESLs); the U.S. EPA Regional Screening Levels, May 2016 (RSLs); and non-site specific levels generated using methods from the California Environmental Protection Agency, DTSC publications, are concentration limits, generated using conservative exposure assumptions, that may be used to assess the need for additional evaluation of risk to human health or the environment. A concentration greater than a risk-based screening level does not necessarily indicate an unacceptable level of risk to a potential receptor, and a complete conceptual model of a release to the subsurface is needed to evaluate potential risk from subsurface contamination. Because a complete conceptual site model describing the release and migration and occurrence of the chemicals reported in the site subsurface is not available, this comparison is not connected to the RECs identified by this Phase I ESA. The objective of this comparison was to determine if the analytical results presented in the Langan’s 2015 Draft Phase II ESA were above the numerical screening levels. The samples included in this review are listed in Table 4.

### Soil

The reported concentrations in site soil for the samples listed in Table 4 are less than the 2016 Tier 1 ESLs, except: the lead concentration of 110 mg/kg in sample B7-2.5. This concentration is greater than the Tier 1 ESL which is based on the Residential Shallow Soil ESL for Direct Exposure (80 mg/kg). The detected lead concentration is less than the Commercial/Industrial Shallow Soil ESL for Direct Exposure (320 mg/kg). These ESLs are from Table S-1 (RWQCB, 2016). EBALDC’s proposed ground floor use of the site is commercial.

### Soil Gas

The reported concentrations in site soil gas for the samples listed in Table 4 are less than the 2016 Tier 1 ESLs. Specifically, the reported concentration of 43 ug/m<sup>3</sup> TCE in sample SG-B6

is less than the Tier 1 ESL of 240 ug/m<sup>3</sup>. The Tier 1 ESL assumes a conservative exposure scenario including residential use of an existing structure and slab-on grade construction. As an alternative to the ESL, which uses a soil gas to indoor air attenuation factor of 0.002, it may be acceptable to calculate a soil gas screening level for new construction using an attenuation factor of 0.001 (DTSC, 2011). Using the 0.48 ug/m<sup>3</sup> cancer-based indoor air level of 0.48 ug/m<sup>3</sup> TCE (USEPA, 2016), and an attenuation factor of 0.001, produces a soil gas screening level of 480 ug/m<sup>3</sup> TCE. The reported TCE concentration in sample SG-B6 is more than an order of magnitude less than a new-construction screening level calculated using these DTSC criteria.

In addition, as part of the 301 12<sup>th</sup> Street cleanup project, an assessment of risk from vapor intrusion at offsite properties (including the result from SG-B6) was performed and concluded that offsite soil vapor is below levels of concern for all reported chemicals. The 301 12<sup>th</sup> Street cleanup project proposes a Target Cleanup Level (TCL) of 600 ug/m<sup>3</sup> TCE for off-site soil gas. The TCE concentration reported for sample SG-B6 is less than the 301 12<sup>th</sup> Street TCL.

### **Groundwater**

The reported concentrations in site and adjacent groundwater samples listed in Table 4 contained concentrations of 1,2-DCA, cis 1,2-DCE, and TCE that are greater than the respective California Maximum Contaminant Levels (MCLs) for drinking water. In addition, the reported TCE concentration is greater than the tap water Regional Screening Level from the U.S. EPA, May 2016, which is the screening level referenced by the DTSC in correspondence regarding cleanup at the 301 12<sup>th</sup> Street site. Drinking water is provided to the site by the EBMUD, and a water supply well was not reported at the site. The reported concentrations of 1,2-DCA, cis and 1,2-DCE are less than the Residential Deep Groundwater ESLs for vapor intrusion. ESLs are from Table GW-3 (RWQCB, 2016).

The reported concentration of TCE in groundwater beneath Harrison Street, adjacent to the site, is greater than the Residential Deep Groundwater ESL for vapor intrusion of 6.9 ug/L TCE, and less than the Commercial Industrial Deep Groundwater ESL for vapor intrusion of 60 ug/L TCE. The reported TCE concentration is also greater than the 301 12<sup>th</sup> Street site TCL of 6.3 ug/L TCE in offsite groundwater, which is based on vapor intrusion concerns. The TCL is from the 10 July 2017 Human Health Risk Assessment prepared by SLR Consulting for the 301 12<sup>th</sup> Street cleanup project, which is included in Appendix C. When available, soil gas data is preferable to groundwater data when evaluating vapor intrusion concerns.

Langan (2015) reported a TPHd concentration of 330 ug/L in sample GW-B6; however, the chromatographic pattern for this result does not resemble the standard for diesel. A copy of the chromatogram is included in Appendix C.

Because the 2015 sampling results for the site, summarized in Langan's Draft Phase II ESA, are below the screening levels discussed above, the analytical results would not typically trigger site cleanup requirements. Nonetheless, Geo Blue recommends that the RECs identified in this report be addressed prior to construction of residences at the site.

## 8.0 FINDINGS

The findings of this ESA indicate the following potential RECs or *de minimis* conditions at the site:

- Former automotive service operations at the site, conducted during the early 1900s, and potentially over an approximately 40-year time period, and the results from sampling performed at the site in 2015, including reported detections of TPHg, TPHd, TPHmo, benzene, toluene, acetone, 1,3-butadiene, chloromethane, cyclohexane, 1,3-dichlorobenzene, n-hexane, methyl ethyl ketone, methyl isobutyl ketone, lead, 1,2-DCA, TCE in the site subsurface; and
- The offsite presence of historical automotive and historical cleaning operations immediately adjacent and potentially upgradient, of the site, including the former Gin's ARCO service station, and the 301 12<sup>th</sup> Street cleanup case.

No historical RECs or *controlled RECs* were identified.

Site History: Beginning between 1903 and 1911, the site was used for automotive service and repair work. The 1950 Sanborn map indicates office uses at the site. Between 1911 and the mid-1960s, it appears that site operations included various commercial uses, ranging from automobile repairs, to sales, and to a cocktail lounge. Cochran and Celli replaced office uses with automobile sales at the site in the mid-1960s. At that time, Cochran and Celli demolished the structure that had been constructed at the site presumably in 1911. It is unknown whether or not subsurface removals (e.g., removal of sumps, lines, vaults, etc.) was performed during demolition in the 1960s. Accordingly, it may be assumed that subsurface features were left in place. Automobile sales were conducted at the site until the mid-1990s, when the lot was converted to a playground for a school located at 301 12<sup>th</sup> Street.

Site Investigation: Soil, groundwater and soil gas samples were collected and analyzed from the site in 2015. Two locations were drilled at the site: borings B-6 and B-7. In addition,

groundwater samples were collected near the western and northern site boundaries as part of the cleanup case at 301 12<sup>th</sup> Street: borings GB11 and GB13, and monitoring well GW-10.

Undocumented fill was observed at the site, and shallow soil sample B7-2.5 was reported to contain 110 mg/kg lead and 410 mg/kg TPHmo. The Draft Phase II ESA prepared by Langan in 2015 reported TPHd and 1,2-DCA in groundwater sample GW-B6. The reported TCE concentration in soil gas from boring B-6 was 43 ug/m<sup>3</sup>. As described in Section 7.0: the reported soil concentrations are greater than residential and less than commercial ESLs; the reported soil gas concentrations are less than potentially applicable screening or action levels; and the reported groundwater concentrations are greater than potentially applicable screening levels for vapor intrusion, however, soil gas data is preferred over groundwater data for evaluation of potential vapor intrusion.

Nearby Historical Operations: Historical operations at adjoining parcels (within the same city block), included automobile repair, brake repair, printing, and potentially dry cleaning. Based on the northeastward groundwater flow direction interpreted by PES, some of these adjacent historical uses were upgradient of the site. Gin's ARCO Service located at 288 11<sup>th</sup> Street was an automobile service station, and automotive use of that property was conducted at the property between 1928 and 2004.

Groundwater and Soil Gas Impacts from 301 12<sup>th</sup> Street: Release(s) of volatile organic compounds (VOCs) including trichloroethene (TCE) to the subsurface at 301 12<sup>th</sup> Street is under investigation. Pursuant to a DTSC-approved workplan, offsite monitoring wells were installed, and a cleanup plan is pending DTSC approval. Groundwater containing TCE has likely migrated from 301 12<sup>th</sup> Street toward the site.

## 9.0 OPINION

With respect to the potential RECs listed in Section 8.0, it is Geo Blue's opinion that the two potential RECs identified in Section 8.0 should be considered RECs. The duration and time period of automobile repair operations at the site is an important factor, increasing the likelihood for a release to site soil or groundwater. At the adjacent former Gins ARCO Service Station, EDR reported automotive use of the property from 1928 through 2004, and USTs were likely used for fuel storage; however, the ACDEH has no records of UST permitting or removal for 288 11<sup>th</sup> Street. Groundwater investigations, relative to the cleanup at 301 12<sup>th</sup>

Street, reported TCE in groundwater monitoring well GW-10, located adjacent to the site. This opinion includes consideration of planned residential redevelopment of the site.

### **9.1 DATA GAPS**

Historical use information between 1911 and 1950 was limited, and no Sanborn maps covering this time period were available for review. Geo Blue was unable to identify all previous tenants. To obtain information to further evaluate historical site uses and address this data failure, EBALDC reviewed historical city directories and files for the site available from the City of Oakland's Historic Preservation Planner and the City of Oakland Building Department. EBALDC provided the results of these reviews to Geo Blue. User-provided information ((i.e., information provided by EBALDC) is described in Section 3.0 and document photocopies are included in Appendix B.

### **10.0 CONCLUSIONS**

Geo Blue has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 of the property located at 285 12<sup>th</sup> Street, Oakland, California. Any exceptions to, or deletions from, this practice are described in Section 11.0 of this report. This assessment has revealed no evidence of RECs in connection with the property, except for the following:

- Former automotive service operations at the site, conducted during the early 1900s, and potentially over an approximately 40-year time period, and the results from sampling performed at the site in 2015, including reported detections of TPHg, TPHd, TPHmo, benzene, toluene, acetone, 1,3-butadiene, chloromethane, cyclohexane, 1,3-dichlorobenzene, n-hexane, methyl ethyl ketone, methyl isobutyl ketone, lead, 1,2-DCA, TCE in the site subsurface; and
- The offsite presence of historical automotive and historical cleaning operations immediately adjacent and potentially upgradient, of the site, including the former Gin's ARCO service station, and the 301 12<sup>th</sup> Street cleanup case.

In consideration of these REC's and EBALDC's development plans for the site, a site management plan for construction and additional evaluation of the potential for vapor intrusion to the future onsite structure likely will be needed. Because the TCE release at 301 12<sup>th</sup> Street appears to have migrated to the site, and may continue to migrate to the site in the future and therefore has the potential to result in vapor intrusion or other concerns relative to EBALDC's future construction, this offsite release is a REC in connection with the site. In addition, other offsite operations or historical offsite operations, adjacent to the site, including

the former Gin's ARCO service station, have the potential for subsurface impacts that could have migrated or could potentially migrate in the future to the site. Accordingly, potential impacts from offsite releases to EBALDC's planned project should be addressed. However, it is not the practice of most cleanup oversight agencies to require offsite cleanup by a downgradient property owner who has been affected by an upgradient release.

#### **10.1 OTHER CONSIDERATIONS**

No other considerations were identified.

#### **11.0 DEVIATIONS**

No deviations or deletions from ASTM Standard E 1527-13 were made during preparation of this ESA, except that a chain of title report including the results of a search for environmental liens and activity and land use limitations was not provided to Geo Blue.

#### **12.0 ADDITIONAL SERVICES**

Geo Blue compared the results of the 2015 Draft Phase II ESA to risk-based screening levels as discussed in Section 7.0. No other additional services were provided as part of this ESA.

#### **13.0 REFERENCES**

ASTM International. 2013. Designation E1527-13. Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

California Regional Water Quality Control Board (RWQCB), San Francisco Bay Region. 2016. Environmental Screening Levels. Rev. 3. February.

California Environmental Protection Agency, Department of Toxic Substances Control. 2011. Vapor Intrusion Guidance. October.

Radbruch, Dorothy H. 1957. Areal Engineering Geology of the Oakland West Quadrangle, California. United States Geological Survey. 1:24,000.

USEPA. 2016b. Regional Screening Levels tables. May.

United States Geological Survey (USGS). 2015. Oakland West Quadrangle, US Topo, Topographic Map, Alameda County, California. 7.5-minute.

#### 14.0 ENVIRONMENTAL PROFESSIONAL SIGNATURE AND STATEMENT

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in section 312.10 of 40 Code of Federal Regulations (CFR) 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. A resume for the environmental professional is included in Appendix J.

A handwritten signature in black ink that reads "Robert W. Schultz". The signature is written in a cursive style with a large, looping flourish at the end of the name.

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Robert W. Schultz, CHG  
Principal Hydrogeologist



# Environmental Site Assessment Report

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285 12<sup>th</sup> Street  
Oakland, California

May 12, 2020

*Prepared for:*  
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**Environmental Site Assessment Report**


285 12<sup>th</sup> Street, Oakland, California

May 12, 2020

The material and data in this report were prepared under the supervision and direction of the undersigned.

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# 1. Introduction

On behalf of the East Bay Asian Local Development Corporation (EBALDC), Roux Associates, Inc. (Roux) has prepared this Environmental Site Assessment (ESA) Report (Report) to evaluate current environmental subsurface conditions for the proposed mixed-use development at 285 12<sup>th</sup> Street in Oakland, California (Site; Figure-1). This ESA has also been prepared on behalf of the ownership entity '285 12<sup>th</sup> Street, LP' and the Housing Authority of the City of Oakland, California. The Site is located in a mixed commercial and residential area near downtown Oakland, on the southeast corner of the intersection between 12<sup>th</sup> Street and Harrison Streets. The Site is currently utilized as a surface parking lot.

According to EBALDC, the proposed Site redevelopment will be a mixed-use, slab-on-grade podium-style building. The ground floor (at grade) of the proposed building will be utilized as commercial space and parking garage, including a lobby, office space, a maintenance room, electrical room, trash storage, and bike storage. No residential or other sensitive land uses are planned for the ground floor of the proposed structure. A community common space, courtyard, and laundry room will be on the second floor. The rest of the second floor and the third through seventh floors will contain residential units.

The results of our ESA described herein was developed in two phases. The initial ESA phase was performed in general accordance with the *Data Gap Work Plan for Phase II Investigation* (Work Plan) dated December 19, 2019 (Roux 2019). The Work Plan was developed to resolve data gaps and investigate Recognized Environmental Conditions (RECs)<sup>1</sup> identified in a Phase I ESA for 285 12<sup>th</sup> Street and the adjacent property, 301 12<sup>th</sup> Street, located west of the Site. The Phase I ESA was prepared by GeoBlue Consulting (GeoBlue, 2017). The following RECs were identified by GeoBlue for the 285 12<sup>th</sup> Street Site:

- *Former automotive service operations at the site, conducted during the early 1900s, and potentially over an approximately 40-year time period, and the results from sampling performed at the site in 2015, including reported detections of total petroleum hydrocarbons (TPH) as gasoline (TPH-g), TPH as diesel (TPH-d), TPH as motor oil (TPH-mo), benzene, toluene, acetone, 1,3-butadiene, chloromethane, cyclohexane, 1,3-dichlorobenzene, n-hexane, methyl ethyl ketone, methyl isobutyl ketone, lead, 1,2-dichloroethane (1,2-DCA), trichloroethene (TCE) in the site subsurface; and*
- *The off-site presence of historical automotive and historical cleaning operations immediately adjacent and potentially upgradient of the site, including the former Gin's ARCO service station, and the 301 12<sup>th</sup> Street cleanup case.*

Following the initial investigation, additional data gaps related to lead concentrations in shallow soil and potential petroleum concentrations in groundwater were identified, and supplemental sampling was performed to delineate the lead concentrations and more accurately assess groundwater conditions, in accordance with the Addendum Data Gap Work Plan (Addendum Work Plan), dated March 11, 2020 (Roux, 2020). The Site description, historical investigations and Site conditions are described in Section 2.0 of this Report. This Report summarizes the implementation of the Work Plan and Addendum Work Plan, associated findings conclusions, and recommendations.

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<sup>1</sup> A Recognized Environmental Condition is defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (i) due to any release to the environment; (ii) under conditions indicative of a release to the environment; or (iii) under conditions that pose a material threat of a future release to the environment.

## 2. Background

### 2.1 Site Location and Description

The Site is located at 285 12th Street in Oakland, California and consists of one approximately 15,000 square foot, rectangular-shaped parcel with the Accessor's Parcel Number (APN) 2-69-3-1. The Site is bounded by 12th Street and residential properties to the north, commercial properties to the east and south, and Harrison Street and a building under construction to the west. The properties surrounding the Site are used for residential, mixed-use, and commercial purposes.

The Site is currently comprised of an asphalt paved surface parking lot and an approximately 500 square-foot structure located adjacent to the southern boundary (Figure 2). The Site is currently utilized as construction storage for Johnstone Moyer, Inc., who is redeveloping the 301 12<sup>th</sup> Street property adjacent to the Site.

The 301 12<sup>th</sup> Street redevelopment project is located directly across Harrison Street and is currently under the jurisdiction of the Department of Toxic Substance Control (DTSC) with Site Codes 202097 and 202101. Additional details related to the 301 12<sup>th</sup> Street site are provided in Section 2.2.1 below.

### 2.2 Previous Environmental Investigations

Previous environmental sampling data was collected at the Site to evaluate environmental conditions and the eastern extent of contamination originating from the 301 12<sup>th</sup> Street site located west of the Site across Harrison Street. A summary of the previous environmental investigations conducted at the Site and an overview of environmental conditions at the nearby 301 12th Street site is provided in this section.

#### *2017 Phase I Environmental Site Assessment (ESA), Geo Blue*

Geo Blue completed a Phase I ESA of the Site dated November 16, 2017 (2017 Phase I ESA; Geo Blue, 2017), prior to the acquisition of the Site by EBALDC. During the 2017 Phase I ESA reconnaissance, the Site had an asphalt-paved vacant school yard and an approximately 500 square-foot office building in the southeast corner of the property. The most recent former tenants of the property were Amethod Public Schools (AMPS), who used the lot for recreation, and a used car sales office. Historical use of the Site included residences, carriage manufacturing, automobile service, repair and sales, and a cocktail lounge. By 1965 the Site is shown in its current layout and was primarily utilized for automobile sales. In the mid-1990s, the Site was utilized as a playground for the AMPS located across Harrison Street at 301 12th Street. During the reconnaissance, Geo Blue did not identify evidence of former aboveground storage tanks (ASTs), underground storage tanks (USTs), or equipment associated with the former automotive service stations.

As stated above, Geo Blue's 2017 Phase I ESA identified the following RECs at the Site:

- *Former automotive service operations at the site, conducted during the early 1900s, and potentially over an approximately 40-year time period, and the results from sampling performed at the site in 2015, including reported detections of TPH-g, TPH-d, TPH-mo, benzene, toluene, acetone, 1,3-butadiene, chloromethane, cyclohexane, 1,3-dichlorobenzene, n-hexane, methyl ethyl ketone, methyl isobutyl ketone, lead, 1,2-dichloroethane (1,2-DCA), TCE in the site subsurface; and*
- *The off-site presence of historical automotive and historical cleaning operations immediately adjacent and potentially upgradient of the site, including the former Gin's ARCO service station, and the 301 12<sup>th</sup> Street cleanup case.*

## **2016 Subsurface Investigation Report, 301 and 285 12<sup>th</sup> Street and Vicinity, Oakland, California, PES Environmental, Inc. (PES)**

PES conducted a subsurface investigation and reported the results in a report dated July 14, 2016. The objectives of the investigation were to:

- Delineate the on-site and off-site lateral and vertical distribution of VOCs in soil gas and groundwater, and of TPH in groundwater;
- Further characterize the site in the vicinity of the former hydraulic lift, former gasoline and waste oil underground storage tank (UST) areas on the 301 12<sup>th</sup> Street property; and,
- Characterize lead concentrations in the fill material for off-site disposal on the 301 12<sup>th</sup> Street property.

PES collected groundwater samples from three existing shallow monitoring wells (GW-1 through GW-3) on the 301 12<sup>th</sup> Street property. Environmental data was also collected near 285 12<sup>th</sup> Street to evaluate off-site impacts related to the 301 12<sup>th</sup> Street site.

During three sampling events, which focused on the 301 12<sup>th</sup> Street site, PES collected soil gas, grab groundwater, and soil samples. Groundwater was determined to be flowing to the north/northeast and was first encountered between 18 and 24 feet bgs. In addition to the groundwater samples collected on the 301 12<sup>th</sup> Street site, shallow (from 21 to 31 feet below ground surface [bgs]) and deep (from 41 to 46 feet bgs) groundwater samples were collected in borings upgradient (GB11) and downgradient (GB13) of the 285 12<sup>th</sup> Street site. The results of the groundwater sampling at GB11 and GB13 are discussed below.

The analytical results were screened against the San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs)<sup>2</sup> and the DTSC residential and commercial/industrial California Human Health Screening Levels (CHHSLs)<sup>3</sup>, and tap water United States (US) Environmental Protection Agency (EPA) tap water Regional Screening Levels (RSLs)<sup>4</sup>.

Tetrachloroethene (PCE), TCE, cis-1,2-dichloroethene (cis-1,2-DCE) and chloroform were detected in soil gas samples above screening criteria collected from the 301 12<sup>th</sup> Street property. No soil gas was collected near the 285 12<sup>th</sup> Street site during this investigation.

TCE was detected at a very low concentration of 0.9 micrograms per liter (µg/L) in the shallow groundwater sample at off-site location GB11 (upgradient of the 285 12<sup>th</sup> Street site). No VOCs were detected in the deeper groundwater sample collected from GB11. PCE and TCE were not detected in either the shallow or deep groundwater samples collected from boring GB13, located north, off-site and downgradient of the 285 12<sup>th</sup> Street site. The only VOC detected in samples from GB13 was 1,2-dichloroethane (1,2-DCA) at a concentration of 2.8 µg/L in the shallow groundwater sample. No other VOCs were detected in the deeper groundwater sample collected from GB13.

TCE, PCE, cis-1,2-DCE, 1,2-DCA, and chloroform were detected in the cross-gradient monitoring wells on the 301 12<sup>th</sup> Street property at concentrations exceeding applicable screening criteria.

### **Draft 2015 Phase II ESA, 301 and 285 12<sup>th</sup> Street, Oakland, California, Langan Treadwell Rollo**

Langan advanced seven borings on the 301 and 285 12<sup>th</sup> Street sites. Two of the borings (B-6 and B-7, Figure 2) were advanced on the 285 12<sup>th</sup> Street site. Concentrations of TPH-mo and lead were detected in soil, TPH-d and 1,2-DCA in groundwater, and volatile organic compounds (VOCs) in soil gas. TCE was detected off-site at a concentration of 43 micrograms per cubic meter (µg/m<sup>3</sup>) in soil gas collected at boring

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2 RWQCB, 2016, February 2016 RWQCB ESLs. Table SG-1 Sub-Slab/Soil Gas Vapor Intrusion: Human Health Risk levels, Residential and Commercial/Industrial Land Use, deep groundwater/sand scenario.

3 DTSC, 2016, DTSC Human and Ecological Risk Office (HERO), Human Health Risk Assessment (HHRA) note, HERO HHRA Note Number 3, DTSC-modified Screening Levels (DTSC-SLs). Release Date: June 2016.

4 US EPA, Region 9, Tap Water Regional Screening Level. May 2016.

location B-6 but was not detected at boring location B-7 on the 285 12<sup>th</sup> Street on-site. The concentration of TCE in soil gas at boring B-6 is above the current Tier 1 ESLs but was below its respective ESL at that time.

Based on the analytical results, Langan concluded that historical activities on-site and in the surrounding vicinity may have impacted the soil gas and groundwater conditions.

It should be noted that Roux has performed additional analysis of soil gas concentrations detected at the Site using the DTSC's screening levels (SL) utilizing both the default attenuation factor (AF) of 0.03 and the AF of 0.001 which has been identified as appropriate for new construction. This analysis is detailed in Section 6.1.3 below.

### **2.2.1 301 12<sup>th</sup> Street**

The 301 12<sup>th</sup> Street site is located directly across Harrison Street to the west (Assessor's Parcel Number [APN] 002-006300600) and encompasses the city block bounded by 12<sup>th</sup> Street to the north, Harrison Street to the east, 11<sup>th</sup> Street to the south, and Webster Street to the west (Figure 2). The former building associated with this site was demolished between December 2017 and February 2018 in preparation for construction of a new building. Groundwater in the vicinity has been reported to flow northeasterly, which places the 285 12<sup>th</sup> Street site in a cross-gradient direction relative to the 301 12<sup>th</sup> Street site. The 301 12<sup>th</sup> Street site is under the jurisdiction of the DTSC Schools Site Division with Site Codes 202097 and 202101.

According to PES Environmental, the developer (BSREP II Station on 12<sup>th</sup> LLC) is redeveloping the 301 12<sup>th</sup> Street site into a mixed-use project, consisting of commercial retail and a 333-unit residential component, known as Station on 12<sup>th</sup>. The planned development covers the entire surface area of the site and includes one level of below-ground parking, ground-level commercial and retail suites, and six levels of residential units beginning on the second floor. Two levels of above-grade parking are also included in the center of the building with a central courtyard space constructed above (PES, 2018).

Based on the Phase I ESA performed by PES in 2017, the 301 12<sup>th</sup> Street site was used for auto sales and service from the 1920s until 1994. Former building uses included a service department, auto repair and service areas, a car wash area, offices and a showroom, and auto storage. An auto repair area with a paint spray booth was present on the partial second floor. The earliest records concerning hazardous material use and storage at the site were from the 1980s, when typical automotive maintenance and repair hazardous materials were used, including petroleum hydrocarbon-based solvents. However, because auto maintenance and repair activities have been performed at the site since the 1920s, it is likely that solvents containing VOCs were historically used at that site. A gasoline UST was removed from the site and received regulatory case closure in 1990. A waste oil UST was reportedly present in or near the 12<sup>th</sup> Street sidewalk. The site was used as a school and for parking since the mid-1990s (PES, 2017).

Based on numerous subsurface investigations, the 301 12<sup>th</sup> Street site has been impacted by VOCs, predominantly TCE. PES proposed to remediate groundwater at the 301 12<sup>th</sup> Street site using zero valent iron (ZVI), which was detailed in their *Revised Final ZVI Design Report, 301 12<sup>th</sup> Street, Oakland, California* dated March 26, 2018 (ZVI Design Report; PES, 2018).

We understand that the remedial action was implemented prior to construction, which is now in progress. Neither a remedial implementation report nor an update on the current groundwater results has been uploaded to Envirostor for review, but PES shared the most recent quarterly groundwater data associated with cis-1,2-DCE and TCE concentrations in well GW-10 via email on February 11, 2020.

Groundwater results from well GW-10, which is adjacent to the west boundary of the Site, has had the following concentrations of cis-1,2-DCE and TCE measured since 2017.

**Summary of GW-10 Detections**  
**301 12<sup>th</sup> Street**  
**Oakland, California**

Well	Date	cis-1,2-DCE	TCE
		(µg/L)	(µg/L)
GW-10	4/17/2017	1.3	13
GW-10	11/27/2017	1.1	8.9
GW-10	9/18/2018	1.9	10
GW-10	12/12/2018	1.1	9.0
GW-10	3/27/2019	0.8	7.8
GW-10	6/27/2019	0.6	4.9
GW-10	9/24/2019	0.9	7.3
GW-10	Q4 2019	0.6	3.2

Based on the above results provided by PES, groundwater concentrations of cis-1,2-DCE and TCE between the 301 12<sup>th</sup> Street site and the 285 12<sup>th</sup> Street site are decreasing, which implies the source removal and remediation conducted at the 301 12<sup>th</sup> Street site appear to be effectively decreasing VOC concentrations. Based on the measured groundwater flow direction at the 301 12<sup>th</sup> Street site, the 285 12<sup>th</sup> Street site is cross-gradient of the 301 12<sup>th</sup> Street site.



## 3. Mobilization

This section provides a summary of the mobilization and field activities performed in accordance with the Work Plan and Addendum Work Plan.

### 3.1 Health and Safety Plan

Roux prepared a site-specific Health and Safety Plan (HASP) to provide guidelines to site workers and visitors during fieldwork. The HASP was kept on-site when fieldwork occurred and was reviewed and signed by site workers during the daily tailgate health and safety meeting prior to work each day. The HASP was updated prior to implementing the Addendum Work Plan to reflect the change in scope.

### 3.2 Utility Location and Borehole Clearance

Roux contacted Underground Service Alert (USA) over 48 hours prior to subsurface activities to notify utility operators of the planned work and to request marking of nearby utilities (i.e., natural gas, electric, water, sewer, telephone, fiber optic, etc.). Additionally, Roux contacted Subdynamic Locating, LLC, a private geophysical services and utility locating firm of San Jose to clear the proposed Work Plan and Addendum Work Plan boring locations for utilities.

### 3.3 Permits

Prior to any subsurface investigations, Roux obtained permits from the Alameda County Public Works Agency (ACPWA). The two permits for soil borings and temporary soil gas probe installation, W2019-0947 and W2019-0948, were approved on December 27, 2019 for the initial data gap investigation. Prior to the supplemental sampling, Roux obtained two permits for soil borings and the installation of a groundwater monitoring well, W2020-0151 and W2020-0152. The permit application was approved on March 5, 2020. Copies of the permits are included in Appendix A.

## 4. ESA Field Work

On January 2 and 3, 2020, the initial investigation was performed. Table 1 details the samples proposed for collection and the analyses plan for each boring location. The table includes the matrix, depth, analyses, analytical method, the historical area and potential environmental concern associated with each boring location. The field work completed as part of the initial investigation is summarized in the following section. Soil, grab groundwater, and soil gas samples were collected in accordance with the Work Plan.

### 4.1 Boring Advancement

A total of five borings (RB-1 through RB-5) were advanced at the Site during the investigation (Figure 2). Roux retained a California-licensed drilling contractor, Penecore Drilling, to perform the subsurface drilling activities. Prior to drilling activities, all soil and groundwater borings were cleared to five feet bgs using a hand auger per Roux's safety requirements. Following utility clearance, borings were advanced with direct push technology (DPT) drilling.

Borings RB-1, RB-2, and RB-3 were advanced to between 30 and 32 feet bgs for soil and groundwater sample collection. Borings RB-4 and RB-5 were advanced to a depth of 15 feet bgs for soil sample collection. Soil gas borings were installed approximately five feet away from each boring. The soil gas borings are identified with an 'SV' in the boring identification (i.e. RBSV-1, RBSV-2, etc.) and were cleared with a hand auger to a depth of 3.0 feet bgs and then drilled to the total depth using direct push. Nested wells were installed in soil gas borings RBSV-1, RBSV-2, and RBSV-3 at depths of 8.0 and 15.0 feet bgs. Soil gas wells were installed at a depth of 8.0 feet bgs only at locations RBSV-4 and RBSV-5.

Soil and groundwater samples were collected, placed in laboratory provided containers and sealed, labeled, logged on a chain of custody form, placed on ice, and transported to a California-certified laboratory for analysis. Soil gas samples were collected into certified clean, laboratory-supplied Summa canisters.

At each boring location, a Roux geologist, engineer, or scientist continuously logged soils using the Unified Soil Classification System (USCS) under the oversight of a California Professional Geologist or Engineer. Additionally, soils were screened with a photoionization detector (PID) and readings were recorded on boring logs. Boring logs are attached in Appendix B.

### 4.2 Soil Sampling Activities

Soil samples were collected in laboratory provided jars and Terracores (for VOC analyses). In borings RB-1, RB-2, and RB-3 soil samples were collected at the surface (just below the asphalt), 3, 5, 10, 15, and 20 feet bgs. In soil borings RB-4 and RB-5 soil samples were collected at the surface (below the asphalt and base rock), 3, 5, 10, and 15 feet bgs. The soil samples deeper than five feet bgs were placed on hold, pending shallow soil and groundwater analytical results. If elevated shallow soil or groundwater results were found, additional soil analyses were performed to delineate soil concentrations and/or evaluate the bioattenuation zone between the ground surface and water table.

Soil samples were analyzed on standard turnaround time (TAT) by McCampbell Analytical (McCampbell), a State of California-certified laboratory.

After the sampling was completed, the soil borings were backfilled with cement grout placed from the bottom of the borehole to just below the ground surface using a tremie pipe, in accordance with ACPWA requirements. An inspector from ACPWA oversaw the back fill of the borings with grout to the ground surface.

### 4.3 Grab Groundwater Sampling Activities

Groundwater was sampled at three boring locations (RB-1, RB-2, and RB-3) and was first encountered between 21 and 23 feet bgs. Boring RB-01 was advanced to 32 feet bgs and borings RB-02 and RB-03 were

advanced to 30 feet bgs. The borings were utilized for soil logging and sampling prior to groundwater sampling. Following logging of the soil boring and once the boring was advanced into the groundwater, a PVC well casing with 10 feet of slotted PVC was placed into each borehole and were left open for several hours to allow the groundwater level to equilibrate. Prior to sampling, the groundwater level was measured using a sonic water level meter and found to be between 26 and 27 feet bgs, which was within the screened interval. No evidence of free product was noted. Groundwater samples were collected into laboratory provided bottles using a check valve and tubing at each proposed location. The analyses performed on the groundwater samples are shown in Table 1.

After the sampling was completed, the grab groundwater borings were backfilled with cement grout placed from the bottom of the borehole to just below the ground surface using a tremie pipe, in accordance with ACPWA requirements. An inspector from ACPWA oversaw the back fill of the borings with grout to the ground surface.

#### 4.4 Soil Gas Sampling Activities

A total of 8 soil gas probes were installed in five soil borings at the Site as noted in Section 3.4. The following sections describe the soil gas probe installations and sampling procedures.

##### 4.4.1 Installation

The soil gas probes were constructed in general accordance with the July 2015 Department of Toxic Substances Control (DTSC) *Advisory Active Soil Gas Investigation* (DTSC Soil Gas Guidance). The probes consisted of a new stainless-steel filter probe tip with a ¼-inch push-to-connect fitting attached to ¼-inch diameter Teflon tubing. The probes were installed using PVC to support the well tubing and probe in the borehole and ensure that the probe tip is placed at the proper depth. The PVC was removed as the annulus materials were placed.

A 12-inch thick layer of #3 sand was placed surrounding the probe tip with the tip midway in the sand pack to minimize the disruption of airflow to the sampling tip. A 12-inch layer of dry granular bentonite was placed above the sand pack, followed by hydrated bentonite to 6 inches below the ground surface or the shallow soil gas probe. The dry bentonite layer prevented the hydrated bentonite layer from infiltrating the sand pack.

##### 4.4.2 Sampling

The soil gas samples were collected using certified clean Summa canisters at least 23 hours after the installation of the soil gas probes per DTSC guidance (guidance requires a minimum of two hours). There was not a significant rain event, identified as more than 0.5-inches of rain within a 24-hour period, within 5 days prior of the sampling event. The sample ID, date and time installed, the date and time sampled, and the time allowed to stabilize are shown below. Soil gas sampling forms are included as Appendix C.

**Summary of Stabilization Time  
285 12<sup>th</sup> Street  
Oakland, California**

Sample ID	Date Installed	Time Installed	Date Sampled	Time Sampled	Stabilization Time
RB-1-SV-8.0	1/2/20	0940	1/3/20	1553	1 day, 6 hours, 13 minutes
RB-1-SV-15.0	1/2/20	0930	1/3/20	1607	1 day, 6 hours, 37 minutes
RB-2-SV-8.0	1/2/20	1105	1/3/20	1425	1 day, 3 hours, 20 minutes
RB-2-SV-15.0	1/2/20	1050	1/3/20	1509	1 day, 4 hours, 19 minutes
RB-3-SV-8.0	1/2/20	1330	1/3/20	1245	23 hours, 15 minutes
RB-3-SV-15.0	1/2/20	1320	1/3/20	1306	23 hours, 46 minutes

RB-4-SV-8.0	1/2/20	1018	1/3/20	1405	1 day, 3 hours, 47 minutes
RV-5-SV-8.0	1/2/20	1203	1/3/20	1133	23 hours, 30 minutes

Prior to the collection of the soil gas sample, a “shut in” test was performed to check for leaks in the above ground soil gas sampling equipment. Following the shut-in test, at least three purge volumes were purged from the sampling tubing using the “purge Summa canister” before soil gas sample collection began. Purge activities were conducted at the same flow rate used for soil gas sample collection (approximately 150 milliliters per minute). During purging and soil gas sample collection activities, a leak test was performed using a plastic bag shroud, which enclosed the soil gas probe vault, probe tubing, and the entire sampling manifold and helium as a tracer gas. A minimum helium concentration of 20 percent (%) was maintained within the shroud during the purging and soil gas sample collection period.

After the sampling was completed, as directed, by the inspector, the Teflon tubing was pulled from the soil gas probe, leaving the stainless-steel filter tip, sand and bentonite in place. At least six inches of the hydrate bentonite were removed, and the top of the soil gas borings were backfilled with cement grout.

The soil gas samples were analyzed for volatile organic compounds (VOCs) by EPA method TO-15, and helium, methane, and oxygen by ASTM D-1956.

## 5. ESA Analytical Results

The analytical results associated with the initial investigation and implementation of the Work Plan are shown on Tables 2 through 11. Analytical laboratory results are included as Appendix D. The analytical results were screened against the DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3 Residential and/or Commercial/Industrial Screening Levels (DTSC SLs). Where residential DTSC SLs were not exceeded, commercial values were not screened. Additionally, polynuclear aromatic hydrocarbons B(a)P equivalents (BaPe) were calculated using the B(a)P toxicity equivalency factors (TEFs) as described in Section 5.1.1 below.

### 5.1 ESA Analytical Results

The results of the initial ESA are summarized below. The analytical results were screened against the DTSC HERO HHRA Note 3 Residential and/or Commercial/Industrial Screening Levels (DTSC SLs). In general, due to no occupancy proposed on the first floor, screening data against Commercial DTSC SLs is appropriate. However, conservatively, Residential DTSC SLs were also screened. Where Residential DTSC SLs were not exceeded, Commercial DTSC SLs were not included.

#### 5.1.1 Soil

In addition to screening against DTSC SLs, polynuclear aromatic hydrocarbons benzo(A)Pyrene (B(a)P) equivalents (BaPe) were calculated using the B(a)P toxicity equivalency factors (TEFs) as described in Section 5.1.1 below. As there is not a DTSC SL for TPH-g or TPH-d in soil, TPH-g and TPH-d results in soil were screened against the RWQCB Commercial and Residential Shallow Soil Exposure ESLs. The analytical results and DTSC SLs for soil are shown in Tables 2 through 7. A summary of the results and detections exceeding the DTSC SLs are summarized below:

- No VOCs, PCBs, or OCPs were detected above Residential or Commercial DTSC SLs;
- No PAHs or BaPe were detected above Commercial DTSC SLs;
- B(a)P was detected slightly exceeding the Residential DTSC SL of 0.11 milligrams per kilogram (mg/kg) in one sample (RB-4-0.0) at a concentration of 0.14 mg/kg, which is below the Commercial DTSC SL of 1.3 mg/kg. The BaPe calculated for sample RB-4-0.0 is below the maximum ambient level as discussed in the section below;
- Dibenzo(A,H)anthracene was detected at a concentration of 0.064 mg/kg in sample RB-4-0.0, exceeding the Residential DTSC SL of 0.028 mg/kg, which is below the Commercial DTSC SL of 0.31 mg/kg. ;
- Arsenic was detected in all the samples at concentrations ranging from 0.14 to 10, which are all above the DTSC SL, but concentrations of arsenic in soil did not exceed the established natural background concentration found in San Francisco Bay Area soil of 11 mg/kg<sup>5</sup>;
- Lead was detected at elevated concentrations in two shallow samples, RB-3-3.0 (380 mg/kg) and RB-4-0.0 (110 mg/kg). The shallow soil exposure Residential DTSC SL for lead in soil is 80 mg/kg and the Commercial DTSC SL is 320 mg/kg. Lead only exceeded its Commercial DTSC SL in sample RB-3-3.0. Lead exceeded its Residential DTSC SL in samples RB-3-3.0 and RB-4-0.0. Lead concentrations were below the Commercial and Residential DTSC SLs in the next deeper samples from each boring, indicating lead concentrations are limited to surface soils;
- TPH-g and TPH-d were not detected above the RWQCB ESL for Residential shallow soil in any samples analyzed; and
- TPH-mo was detected in eight of 12 samples at concentrations ranging from 7.8 to 1,100 mg/kg. None of the detections exceeded its Commercial DTSC SL of 21,000 mg/kg. Three of the samples (RB-2-0.0, RB-3-0.0, and RB-4-0.0) had concentrations above the Residential DTSC SL.

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<sup>5</sup> As established by D.J. Duvergé in *Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region*. A thesis submitted to the faculty of San Francisco State University in Partial Fulfillment of the Requirement for the Degree, Master of Science in Geosciences dated December 2011.

No other compounds were detected above applicable Residential or Commercial/Industrial DTSC SLs.

B(a)P and dibenzo(A,H)anthracene were detected below the Commercial DTSC SL but slightly above the Residential DTSC SL in one shallow sample (RB-4-0.0) that was collected below the asphalt, which is a common source of PAHs in soils. PAHs are often found at ambient concentrations in urban sites and are associated with former industrial activities. Background, or ambient, soil concentrations of these constituents commonly exceed DTSC SLs. In general, cleanup of PAHs is not required for concentrations that are less than background urban levels. Ambient concentrations are evaluated as outlined in the DTSC Northern and Southern California PAH study<sup>6</sup>, guidance manual<sup>7</sup>, and a Northern California study performed by Environ<sup>8</sup>.

Detected concentrations of the potentially carcinogenic PAHs (CPAHs) at the Site were compared to a dataset of ambient concentrations for CPAHs developed for Northern California, as outlined in the Environ PAH study. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(A,H)anthracene, and indeno(1,2,3-c,d)pyrene are collectively referred to as CPAHs (DTSC 2015).

The B(a)P equivalents (BaPe) were calculated using the B(a)P toxicity equivalency factors (TEFs) outlined in the PEA Guidance Manual (DTSC, 2015). In accordance with the PEA Guidance Manual, the CPAH detections were compared to the DTSC HERO HHRA Note 3 Commercial and Residential screening levels, which take into account Commercial and Residential Regional Screening Levels (RSLs) provided by the United States Environmental Protection Agency (USEPA).

The BaPe value was calculated by multiplying the cancer potency equivalent factor for each CPAH relative to benzo(a)pyrene by the detected concentration of each individual PAH and then summing the results:

$$BaPe = \sum C_i \times PEF_i$$

The calculation for the Toxic Equivalents (TEQ) and the BaPe for RB-4-0.0 is shown in Table 3.

In addition to comparing the detected CPAH concentrations against concentrations listed in the HERO HHRA Note 3, the calculated BaPe concentrations were screened against the mean of the background CPAH dataset in the DTSC Northern California Ambient PAH study, which is 0.21 mg/kg and the maximum estimated value for BaPe for the background set is 2.8 mg/kg. The BaPe concentration for sample RB-4-0.0 (0.27 mg/kg) is slightly above the mean but is significantly lower than the maximum background concentrations and only slightly above the mean of the background CPAH dataset.

### 5.1.2 Groundwater

Detections in groundwater were compared to the DTSC HERO HHRA Note 3 SLs for Tap Water and the RWQCB MCL Priority ESLs where DTSC Tap Water SLs are not established. The analytical results for groundwater are shown in Tables 8 and 9. Detections exceeding the SLs are summarized below:

- 1,2-Dichloroethane (1,2-DCA) was detected in groundwater samples collected from RB-1-GW and RB-2-GW at concentrations of 4.6 and 9.9 µg/L, respectively. Both of the samples had concentrations above the RWQCB MCL of 0.5 µg/L; and,
- TPH-d was detected in groundwater samples collected from borings RB-1-GW and RB-2-GW at concentrations of 3,900 and 1,400 µg/L, respectively. These concentrations of TPH-d exceed the RWQCB ESL MCL Priority of 199 µg/L.

No other chemicals were detected above DTSC SLs or ESLs MCL Priority in grab groundwater samples collected on-site.

6 Cal/EPA. 2009. *Use of Northern and Southern California Polynuclear Aromatic Hydrocarbon (PAH) Studies in the Manufactured Gas Plant Site Cleanup Process*. July 1.

7 DTSC. 2015. *Preliminary Endangerment Assessment (PEA) Guidance Manual* by California Environmental Protection Agency. January 1994., Revised October 2015.

8 Environ. 2002. *Background Levels of Polynuclear Aromatic Hydrocarbons in Northern California Surface Soil Study*.

Groundwater was recently collected by PES from nearby monitoring well GW-10 (Figure 2), with results presented in Section 2.2. TCE and cis-1,2-DCE concentrations in the cross-gradient monitoring well GW-10 have generally been decreasing since remediation at 301 12<sup>th</sup> Street has taken place. The latest sampling results available from GW-10, from the Fourth Quarter 2019 indicate that cis-1,2-DCE and TCE were detected in GW-10, the monitoring well closest to the Site, at concentrations below DTSC SLs and RWQCB ESLs MCL Priority.

### 5.1.3 Soil Gas

Detections in soil gas were primarily compared to the DTSC HERO HHRA Note 3 Commercial Ambient Air SLs adjusted with the new construction attenuation factor (AF) of 0.001. In our opinion, comparison of soil gas data to this DTSC SL and AF is most appropriate for this Site, given the ground floor is proposed for commercial use and new construction is proposed. The use of the new construction AF of 0.001 is consistent with recommendations in the PEA guidance (DTSC, 2015). The analytical results were also conservatively compared to Commercial Ambient Air DTSC SLs adjusted with the default AF of 0.03 and the Residential Ambient Air DTSC SLs adjusted with both the default and new construction AFs. Benzene analytical results were also screened against State Water Resources Control Board (SWRCB) "Low-Threat Underground Storage Tank Case Closure Policy" (LTUST Closure)<sup>9</sup>, where a bioattenuation zone is present. A bioattenuation zone is present in the vadose zone of the Site, as oxygen was detected in soil gas about 4% and TPH was not detected in soil samples from the vadose zone at concentrations above 100 mg/kg, which indicates a bioattenuation zone is present. The analytical results for soil gas are shown in Tables 10 and 11. Soil gas results are summarized below:

- No soil gas results exceeded the DTSC Commercial or Residential SLs adjusted with the new construction AF of 0.001;
- Benzene was detected in seven of the eight samples at concentrations ranging between 10 and 24  $\mu\text{g}/\text{m}^3$ . The detected benzene concentrations are significantly below the SWRCB LTUST Closure criteria for residential exposure of 85,000  $\mu\text{g}/\text{m}^3$ . As stated above, benzene was also below both the Commercial and Residential Ambient Air SL adjusted with the new construction AF;
- Chloroform was detected in five samples (RB-1-SV-8.0, RB-1-SV-15.0, RB-2-SV-8.0, RB-2-SV-15.0, RB-3-SV-8.0) with concentrations ranging between 16  $\mu\text{g}/\text{m}^3$  and 63  $\mu\text{g}/\text{m}^3$ ;
- PCE was detected at low concentrations in all soil gas samples, except RB-5-SV at eight feet bgs. PCE concentrations ranged from 1.5 to 10  $\mu\text{g}/\text{m}^3$ , all of which were significantly below the DTSC SLs;
- TCE was not detected in any soil gas samples above the reporting threshold of 2.7 to 3.4  $\mu\text{g}/\text{m}^3$ ;
- Several other VOCs were detected at concentrations significantly below applicable DTSC SLs as listed in Table 11;
- Helium was not detected in any of the samples, indicating samples were collected appropriately and without significant leaks in the sample train;
- Oxygen was detected at concentrations ranging between 10 and 21 %. Concentrations of oxygen indicate that a bioattenuation zone is present in the vadose zone at the Site, which will support natural attenuation of benzene;
- Methane was detected at low concentrations ranging from less than 0.00022 % to 0.0027 %, all significantly below the lower explosive limit of 5%; and
- Carbon Dioxide was detected at concentrations ranging from 0.12% to 8.7%, which indicates natural attenuation and degradation is occurring.

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<sup>9</sup> State Water Resources Control Board, 2012. "Low-Threat Underground Storage Tank Case Closure Policy." May 1



## 6. Supplemental ESA Field Work

Based on elevated lead concentrations in shallow soil in borings RB-03 and RB-04 and slightly elevated concentrations of TPH in groundwater samples, additional step out borings were proposed around borings RB-03 and RB-04 to delineate the lead concentrations. Additionally, a monitoring well was proposed near boring RB-01, which had the highest concentrations of TPH in grab groundwater. The monitoring well was proposed to determine if TPH concentrations in groundwater were true dissolved concentrations or were related to sediment collected during the grab sampling. The supplemental soil sampling and groundwater well installation, development and sampling were conducted in accordance with the Addendum Work Plan.

On March 12 and 13, 2020, Roux conducted the supplemental sampling outlined above to address the remaining data gaps. The field work completed as part of the supplemental investigation is summarized in the following section.

### 6.1 Boring Advancement and Soil Sampling Activities

Roux retained Penecore, to perform the subsurface drilling activities. Soil borings were advanced with direct push technology (DPT).

Lead concentrations during the initial investigation were detected at elevated concentrations in RB-3 at 3 feet bgs and in the surface sample in RB-4. The RB-03-3 sample had a lead result above the DTSC Commercial SL and the surface sample at RB-04 exceeded the DTSC Residential SL but was below the Commercial SL. Three rows of step out borings were advanced in each direction around borings RB-03 and RB-04 for a total of 24 step-out borings. Each boring was advanced to four feet bgs to delineate the lateral extent of lead in surface soils. Boring locations are illustrated on Figure 3.

Step-out borings were advanced to the northeast, southwest, northwest, and southeast of Roux borings RB-3 and RB-4. The first row of step-out borings, three feet from the original boring, was labelled "SO1", the second row of step-out borings, six feet from the original boring, was labelled "SO2", and the third row of step-out borings, nine feet from the original boring was labelled "SO3". Sampling locations and IDs are shown on Figure 3. Soil samples were collected from the surface (0.0 feet below asphalt and base rock) in step-out borings associated with RB-4 and 3.0 feet bgs in step-out borings associated with RB-3.

Soil samples were run sequentially from the original boring based on the results received. The first row (i.e. SO1) of samples were analyzed and if Residential DTSC SLs were exceeded then the second row was analyzed in the direction of the exceedance and so on until a sample result was achieved in each direction below Residential DTSC SLs.

An additional soil sample (RB-1-10.0) was collected at 10 feet bgs from the boring advanced for the installation of monitoring well RBMW-1 to analyze for TPH in deeper soil samples and confirm a bioattenuation zone was present. RB-1-10 was analyzed for TPH-g and TPH-d by USEPA Method 8015.

Soil samples were collected, placed in laboratory provided containers and sealed, labeled, logged on a chain of custody form, placed on ice, and transported to a California-certified laboratory for analysis. Soil samples were analyzed by McCampbell.

After the sampling was completed, the step-out borings were backfilled with cement grout placed from the bottom of the borehole to just below the ground surface using a tremie pipe, in accordance with ACPWA requirements. An inspector from ACPWA oversaw the back fill of the borings with grout to the ground surface.

### 6.2 Groundwater Monitoring Well Installation

Monitoring Well RBMW-1 was installed adjacent to location RB-1, which had the highest TPH concentration in groundwater in the initial ESA. The well was proposed to evaluate true dissolved concentrations as grab groundwater sampling can yield turbid samples. Turbid samples from the smear zone are not representative



of dissolved-phase concentrations, because the non-dissolved petroleum contained within the samples as turbidity is included in the analysis (RWQCB, 2015).

Prior to installing the well, Roux measured the depth to groundwater in monitoring well GW-10, located in the parking lane of Harrison Street. Groundwater was 26 feet bgs in GW-10. Based on this information, the RWMW-1 was advanced to 32 feet bgs, approximately eight feet below the groundwater table. Prior to drilling activities, the well was cleared for utilities to five feet bgs using a hand auger. The well was advanced using 8-inch diameter hollow stem augers.

After drilling, the well was constructed with 2-inch PVC casing with 10 feet of 0.02-inch slotted PVC screen and #3 sand was placed at the bottom of the boring, six inches below and 12-inches above the screen. Two feet of hydrated bentonite was then placed above the sand and the well was grouted to the ground surface, in accordance with ACPWA requirements. An inspector from ACPWA oversaw the back fill of the well with grout to the ground surface.

The monitoring well was constructed with a traffic-rated well box secured at the surface and the seal was allowed to set and stabilize for at least 48 hours prior to well development. The depth to water in the monitoring well was measured with a sonic water level meter and found to be 24.1 feet below top of casing.

### **6.3 Groundwater Sampling Activities**

The monitoring well was developed by Blaine Tech Services of San Jose, California on April 1, 2020. The monitoring well was developed by swabbing the well screen and purging 16 casing volumes until the water quality parameters (pH, specific conductivity, oxidation-reduction potential, and turbidity) stabilized. Prior to development, the groundwater level was measured using a sonic water level meter and found to be 24.1 feet bgs.

The turbidity of the groundwater prior to well development was greater than 1,000 Nephelometric Turbidity Units (NTU). Post well development, the turbidity of the groundwater was 351 NTU.

On April 3, 2020, more than 24 hours after the well development, Blaine Tech Services purged the monitoring well and collected a groundwater sample using a bladder pump with low flow purging and sampling methodology. Prior to sampling, the groundwater level was measured using a sonic water level meter and found to be 24.1 feet bgs.

The groundwater sample was collected into laboratory provided bottles from McCampbell. The groundwater sample was analyzed for TPH-g and VOCs by USEPA Method 8260B, and for TPH-d/-mo by USEPA Method 8015. The well development and well sampling forms and are included as Appendix E.

### **6.4 Supplemental ESA Analytical Results**

The results of the Supplemental ESA are summarized below and analytical laboratory reports are included as Appendix F.

#### **6.4.1 Soil**

The step-out samples were analyzed for lead to delineate the extent of lead contamination around borings RB-3 and RB-4. The SO1 row of soil samples at the depth of the previous exceedance from each boring location were analyzed for lead by United States Environmental Protection Agency (US EPA) Method 6020. All other samples were placed on hold. The SO2 sample at the depth of exceedances was analyzed if the SO1 sample contained lead above the Residential DTSC SL in any given direction. The SO3 sample was analyzed only if the SO2 sample contained lead at a concentration above the Residential DTSC SL of 80 mg/kg. The analytical results are displayed in Table 12 and described below:

- Lead was detected below DTSC SL in the four soil samples analyzed in the SO1 samples from 3 feet bgs surrounding RB-3. No additional step-out samples were analyzed;

- Lead was detected below Residential DTSC SLs with concentrations of 49 mg/kg and 57 mg/kg in the SO1 step-out samples RB-4-SO1-B and RB-4-SO1-D, respectively. The lead concentrations in RB-4-SO1-A-0.0 and RB-4-SO1-C-0.0 exceeded the Residential DTSC SLs with concentrations of 110 mg/kg and 180 mg/kg, respectively;
- Based on the RB-4-SO1-A-0.0 and RB-4-SO1-C-0.0 results, the SO2 samples were analyzed at two locations (RB-4-SO2-A and RB-4-SO2-C) surrounding RB-4. Lead was detected below the Residential DTSC SL in RB-4-SO2-C at a concentration of 14 mg/kg. Sample RB-4-SO2-A exceeded the Residential DTSC SL with a concentration of 150 mg/kg;
- Based on the RB-4-SO2-A result, one sample from the SO3 step-out (RB-4-SO3-A) from the surface was analyzed for lead. Lead detected in RB-4-SO3-A-0.0 was below Residential DTSC SL with a concentration of 38 mg/kg.

Based on the results, lead was delineated at the Site.

An additional sample was collected from RB-1 at 10 feet bgs (RB-1-10) and analyzed for TPH-g and TPH-d. Neither TPH-g and TPH-d were detected in sample RB-1-10.0 above laboratory limits.

#### **6.4.2 Groundwater from Monitoring Well**

Following well development, groundwater monitoring well was purged, and groundwater was collected from monitoring well RBMW-1 and analyzed for VOCs and TPH-g by EPA 8260B and TPH-d/-mo by EPA 8015. Detections in groundwater were compared to the DTSC HERO HHRA Note 3 SLs for Tap Water. As there is not a DTSC SL for TPH-g or TPH-d, TPH in groundwater was screened against the RWQCB MCL Priority Levels. The analytical results for groundwater are shown in Tables 8 and 9. Detections exceeding the DTSC SLs are summarized below:

- 1,2-DCA was detected in RBMW-1 at 4.6 µg/L. Concentrations of 1,2-DCA were evaluated against the RWQCB ESL MCL Priority, as DTSC SLs are not established. The concentration of 1,2-DCA exceeded its ESL of 0.5 µg/L;
- No other VOCs were detected at concentrations exceeding the DTSC SL or MCLs; and
- TPH-g and TPH-d were not detected in RBMW-1 above laboratory reporting limits.

## 7. Conclusions

In general, with the exception of elevated lead detected in limited areas of the Site, no significant detections were noted during the initial and supplemental phases of environmental assessment. Based on the Site history and recent results, it is not likely that a significant release has occurred to the environment and no significant vapor intrusion issues were observed.

Soil and soil gas data collected during the initial and supplemental phases of investigation were primarily screened against Commercial DTSC SLs were established, due to the proposed mixed-use development, which will not have residential or any sensitive uses on the ground floor. Where DTSC screening criteria were not established data was screened against most appropriate RWQCB ESLs. Soil gas results were primarily screened against Commercial Ambient Air DTSC SLs adjusted with the new construction AF 0.001, as recommended in the DTSC's PEA Guidance. Groundwater data was screened against DTSC Tap Water SLs and if not established, RWQCB ESLs MCL Priority.

The Contaminants of Concern (COCs) present at the Site above the screening levels listed above or background concentrations include lead in soil and 1,2-DCA and TPH-d in groundwater. The majority of COCs in soil will be removed during excavation related to construction activities. It is currently anticipated that a minimum of three feet of soil will be excavated and disposed of off-site during construction activities. A summary of COCs at the Site is included below.

### 7.1 Lead

Lead was not found ubiquitously in surface soil at the Site. Elevated lead concentrations were detected in limited areas in two of five borings at the surface and three feet bgs. Deeper samples in each boring did not have elevated lead, which indicates that lead concentrations are limited horizontally and vertically.

Additional sampling to delineate the horizontal extent of lead around borings RB-3 and RB-4 was completed in the supplemental ESA. Step-out borings were sampled around RB-3 and RB-4. SO-2 and SO-3 samples were analyzed for lead, as necessary until the lead concentration in the step-out sample was below the Residential DTSC SL of 80 mg/kg. Lead was conservatively delineated to Residential DTSC SLs. Based on the analytical results of the soil step-out samples, the vertical and lateral extent of lead contamination at the Site has been delineated. The extent of lead exceeding Residential DTSC SLs surrounding locations RB-3 and RB-4 is shown in Figure 4. The dimensions of the proposed lead removal by area include an excavation approximately 3 feet by 3 feet with a depth of 5 feet for RB-3 and 12 feet by 3 feet to a depth of 3 feet for RB-4.

The areas with elevated concentrations of lead is proposed for excavation and off-site disposal at a permitted landfill. In addition, the Site soils to remain in place post-construction will be covered by a concrete slab-on-grade proposed as part of the redevelopment of the Site.

### 7.2 Polycyclic Aromatic Hydrocarbons (PAHS)

Low levels of PAHs were detected in shallow soils at the Site, generally consistent with background PAH concentrations in urban settings and were below Commercial DTSC SLs. Benzo(a)pyrene and dibenzo(A,H)anthracene were detected in one shallow sample that was collected just below the asphalt from boring RB-04 slightly above the residential DTSC SLs. PAHs in this sample is likely related to asphalt. This sample is proposed for excavation and off-site disposal as part of construction. No other samples collected had concentrations of PAHs above DTSC SLs or the mean concentration of background CPAHs when converted to Toxic Equivalents (TEQ) for benzo(a)pyrene.

Concentrations of PAHs in soil do not appear significant at the Site and no further action is recommended.

### 7.3 Groundwater

Groundwater samples collected from borings RB-01 and RB-02 had concentrations of COCs in groundwater above RWQCB ESLs, where DTSC SLs were not established. Groundwater from boring RB-03 did not include any compounds detected above DTSC SLs or RWQCB ESLs, where DTSC SLs were not established. Grab groundwater collected from RB-01 and RB-02 contained 1,2-DCA above the RWQCB ESL MCL Priority of 0.5 µg/L at concentrations of 4.6 and 9.9 µg/L, respectively. The groundwater sample collected from monitoring well RBMW-1 detected 1,2-DCA at the same concentration as the grab sample from RB-01 (4.6 µg/L). No other VOCs were detected above screening criteria in groundwater. The 1,2-DCA detection is not considered significant as it only slightly exceeds the RWQCB's ESL MCL Priority and groundwater is not utilized as a drinking water source. Groundwater in this area is currently supplied by the East Bay Municipal Utility District and is not likely to be utilized as a shallow drinking water source in the near future. Furthermore, soil gas results for 1,2-DCA do not indicate a significant vapor intrusion risk and therefore, the concentrations of 1,2-DCA in groundwater to not appear to be significant.

TPH-d was detected above the RWQCB ESL MCL Priority in RB-01 and RB-02. TPH-d does not have a DTSC SL established for Tap Water. TPH-d was not detected in RBMW-1, which was installed adjacent to boring RB-01, which had the highest concentrations of TPH-d. Based on the lack of detections in RBMW-1, it appears the elevated concentrations of TPH in the grab-groundwater samples were biased high by the sediment in the grab-groundwater samples. Based on the TPH results in RBMW-1, the TPH-d concentrations in groundwater do not appear to be significant.

The primary contaminants of concern at the cross-gradient 301 12<sup>th</sup> Street site are TCE and PCE. TCE and PCE were not detected above soil, groundwater or soil gas DTSC SLs at the Site, indicating that the PCE and TCE plume at 301 12<sup>th</sup> Street is not adversely affecting the Site. Furthermore, the 301 12<sup>th</sup> Street site has undergone significant remediation and concentrations are generally reducing. The 301 12<sup>th</sup> Street site is under DTSC jurisdiction.

### 7.4 Soil Gas

VOCs were not detected above the residential or commercial DTSC HERO HHRA Note 3 ambient air SLs adjusted with a new construction AF of 0.001. Additionally, oxygen concentrations above 4% were measured in soil gas which indicates a bioattenuation zone is present in the vadose zone, which will support the natural attenuation of benzene. The benzene concentrations do not exceed the SWRCB LTUST Closure criteria for residential exposure. Soil gas concentrations do not indicate a significant vapor intrusion risk is present at the Site.

## 8. Recommendations

To mitigate the potential for direct exposures to lead in surface and shallow soil, excavation and removal of impacted soil is recommended. The estimated lateral and vertical limits were established based on the analytical results of the samples collected from and surrounding RB-3 and RB-4 and are shown in Figure 4 and on Tables 4 and 12.

The proposed area surrounding RB-3 is proposed for excavation to 5.0 feet bgs. The five-foot sample from RB-03 contained low levels of lead (3.1 mg/kg). The proposed area surrounding RB-4 will be excavated to 3.0 feet bgs. The three-foot sample from RB-4 did not exceed Residential DTSC SLs. The areas proposed for removal are illustrated on Figure 4.

Following redevelopment, the Site soils will be beneath a building slab, limiting the risk of direct exposure.

Prior to the start of redevelopment construction activities, Roux recommends the decommissioning of RBMW-1, in accordance with ACPWA and Department of Water Resources guidance.

Based on the soil gas and groundwater data that was collected at the Site, vapor mitigation is not necessary for the proposed mixed-use building.

No other Site remediation or mitigation is recommended. A land use covenant should be considered for the property to limit the use of shallow groundwater for human consumption and use.

## 9. References

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1. Sampling and Analysis Plan
2. Summary of Volatile Organic Compounds in Soil
3. Summary of Polycyclic Aromatic Hydrocarbons in Soil
4. Summary of Metals and Asbestos in Soil
5. Summary of Polychlorinated Biphenyls in Soil
6. Summary of Pesticides in Soil
7. Summary of Petroleum Hydrocarbons in Soil
8. Summary of Volatile Organic Compounds in Groundwater
9. Summary of Petroleum Hydrocarbons in Groundwater
10. Summary of Volatile Organic Compounds in Soil Gas by TO-15
11. Summary of Soil Gas Results by ASTM-D1946
12. Summary of Lead in Step-Out Borings Surrounding RB-3 and RB-4

**Table 1. Sampling and Analysis Plan  
285 12th Street  
Oakland, CA**

Boring Location <sup>1</sup>	Boring Depth	Matrix	Sampling Depths (ft bgs) <sup>2</sup>	Analyses	Analytical Method	Historical Area and Potential Environmental Concern	Phase of Investigation
RB-1	32	Soil	Surface, 3, 5, 10, 15, and 20	TPH-g, TPH-d, TPH-mo, CAM 17 Metals, VOCs, OCPs, PCBs, Asbestos, and/or PAHs	EPA 8015, EPA 6020/7471, EPA 8260B, EPA 8081/8082, CARB 435, EPA 8310/8270C SIM	Potential surface spills, and evaluate offsite VOC impacts in groundwater and soil gas from adjacent property (301 12th Street)	Initial
		Groundwater	32	VOCs, TPH-g, TPH-d, and TPH-mo	EPA Method 8260B, EPA 8015		
		Soil Vapor	8, 15	VOCs, Methane, Oxygen, Helium	EPA TO-15, ASTM D-1946		
RBMW-1	32	Soil	10	TPH-g, and TPH-d	EPA 8015	Evaluation of the bioattenuation zone	Supplemental
		Groundwater	32	VOCs, TPH-g, TPH-d, and TPH-mo	EPA Method 8260B, EPA 8015	To confirm dissolved concentrations in groundwater	
RB-2	32	Soil	Surface, 3, 5, 10, 15, and 20	TPH-g, TPH-d, TPH-mo, CAM 17 Metals, VOCs, OCPs, PCBs, Asbestos, and/or PAHs	EPA 8015, EPA 6020/7471, EPA 8260B, EPA 8081/8082, CARB 435, EPA 8310/8270C SIM	Potential surface spills, and evaluate offsite VOC impacts in groundwater and soil gas from adjacent property (301 12th Street)	Initial
		Groundwater	30	VOCs, TPH-g, TPH-d, and TPH-mo	EPA Method 8260B, EPA 8015		
		Soil Vapor	8, 15	VOCs, Methane, Oxygen, Helium	EPA TO-15, ASTM D-1946		
RB-3	32	Soil	Surface, 3, 5, 10, 15, and 20	TPH-g, TPH-d, TPH-mo, CAM 17 Metals, VOCs, OCPs, PCBs, Asbestos, and/or PAHs	EPA 8015, EPA 6020/7471, EPA 8260B, EPA 8081/8082, CARB 435, EPA 8310/8270C SIM	Potential surface spills, and evaluate offsite VOC impacts in groundwater and soil gas from adjacent property (301 12th Street),	Initial
		Groundwater	30	VOCs, TPH-g, TPH-d, and TPH-mo	EPA Method 8260B, EPA 8015		
		Soil Vapor	8, 15	VOCs, Methane, Oxygen, Helium	EPA TO-15, ASTM D-1946		
RB-3-SO1-A, B, C, D	4	Soil	Surface, 3	Lead	EPA 6020	Step-out boring for lead delineation	Supplemental
RB-3-SO2-A, B, C, D							
RB-3-SO3-A, B, C, D							
RB-4	15	Soil	Surface, 3, 5, 10, and 15	TPH-g, TPH-d, TPH-mo, CAM 17 Metals, VOCs, OCPs, PCBs, Asbestos, and/or PAHs	EPA 8015, EPA 6020/7471, EPA 8260B, EPA 8081/8082, CARB 435, EPA 8310/8270C SIM	Former automotive sales facility, surface spills	Initial
		Soil Vapor	8	VOCs, Methane, Oxygen, Helium	EPA TO-15, ASTM D-1946		
RB-4-SO1-A, B, C, D	4	Soil	Surface, 3	Lead	EPA 6020	Step-out boring for lead delineation	Supplemental
RB-4-SO2-A, B, C, D							
RB-4-SO3-A, B, C, D							
RB-5	15	Soil	Surface, 3, 5, 10, and 15	TPH-g, TPH-d, TPH-mo, CAM 17 Metals, VOCs, OCPs, PCBs, Asbestos, and/or PAHs	EPA 8015, EPA 6020/7471, EPA 8260B, EPA 8081/8082, CARB 435, EPA 8310/8270C SIM	Former automotive sales facility, surface spills	Initial
		Soil Vapor	8	VOCs, Methane, Oxygen, Helium	EPA TO-15, ASTM D-1946		

**Notes:**

1 - Soil/groundwater borings were approximately five feet away from soil vapor borings.

2 - Soil samples deeper than five feet bgs from borings were placed on hold pending groundwater analytical results. If elevated groundwater results were found, additional soil

CARB: California Air Resources Board

CAM: California assessment metals

EPA: Environmental Protection Agency

ft bgs: feet below ground surface

PAHs: polycyclic aromatic hydrocarbons

SIM: select ion mode

TPH-d: TPH as diesel

TPH-g: TPH as gasoline

TPH-mo: TPH as motor oil

VOCs: volatile organic compounds





**Table 3. Summary of Polynuclear Aromatic Hydrocarbons in Soil  
285 12th Street, Oakland, California**

Parameter	HERO HHRA Note 3 Residential Screening Levels	HERO HHRA Note 3 Commercial Screening Levels	B(a)P Toxicity Equivalency Factor (TEF)	Unit	Sample ID: RB-1-0.0 RB-2-0.0 RB-2-3.0 RB-3-3.0 RB-4-0.0 RB-5-0.0 RB-5-3.0													
					Boring ID: RB-1 RB-2 RB-2 RB-3 RB-4 RB-5 RB-5													
					Sample Date: 01/03/2020 01/03/2020 01/03/2020 01/03/2020 01/02/2020 01/02/2020 01/02/2020													
					Sample Depth (ft bls): 0 0 3 0 0 0 3													
Lab Results	B(a)P Toxicity Equivalents (TEQ)	Lab Results	Lab Results	B(a)P Toxicity Equivalents (TEQ)	Lab Results	B(a)P Toxicity Equivalents (TEQ)	Lab Results	B(a)P Toxicity Equivalents (TEQ)	Lab Results	B(a)P Toxicity Equivalents (TEQ)	Lab Results	B(a)P Toxicity Equivalents (TEQ)	Lab Results	B(a)P Toxicity Equivalents (TEQ)				
1-Methylnaphthalene	9.90E+00	3.00E+01	--	mg/kg	<0.0025 U	--	4.20E-02	--	<0.0025 U	--	<0.025 U	--	3.70E-02	--	<0.012 U	--	<0.0025 U	--
2-Methylnaphthalene	1.90E+02**	1.30E+03**	--	mg/kg	< 0.0025 U	--	4.20E-02	--	< 0.0025 U	--	< 0.025 U	--	3.70E-02	--	< 0.012 U	--	< 0.0025 U	--
Acenaphthene	3.30E+03**	2.30E+04**	--	mg/kg	< 0.0013 U	--	< 0.0026 U	--	< 0.0013 U	--	< 0.013 U	--	7.10E-03	--	< 0.0065 U	--	< 0.0013 U	--
Acenaphthylene	--	--	--	mg/kg	< 0.0013 U	--	0.0054	--	< 0.0013 U	--	< 0.013 U	--	0.2	--	< 0.0065 U	--	< 0.0013 U	--
Anthracene	1.70E+04**	1.30E+05**	--	mg/kg	< 0.0013 U	--	0.0024 J	--	< 0.0013 U	--	< 0.013 U	--	2.70E-02	--	< 0.0065 U	--	< 0.0013 U	--
Benzo(A)Anthracene	1.10E+00	1.20E+01	1.00E-01	mg/kg	< 0.005 U	--	2.20E-02	2.20E-03	< 0.005 U	--	1.00E-01	1.00E-02	2.10E-01	2.10E-02	0.024 J	2.40E-03	< 0.005 U	--
Benzo(A)Pyrene	1.10E-01	1.30E+00	1.00E+00	mg/kg	3.10E-03	3.10E-03	2.30E-02	2.30E-02	< 0.0025 U	--	2.50E-02	2.50E-02	<u>1.40E-01</u>	1.40E-01	0.016	1.60E-02	< 0.0025 U	--
Benzo(B)Fluoranthene	1.10E+00	1.30E+01	1.00E-01	mg/kg	7.20E-03	7.20E-04	3.80E-02	3.80E-03	0.0013 J	1.30E-04	< 0.063 U	--	3.10E-01	3.10E-02	0.025 J	2.5E-03	< 0.0063 U	--
Benzo(G,H,I)Perylene	--	--	--	mg/kg	0.0069	--	0.04	--	< 0.0025 U	--	0.047	--	0.22	--	0.025	--	0.0011 J	--
Benzo(K)Fluoranthene	1.10E+01	1.30E+02	1.00E-01	mg/kg	2.30E-03	2.30E-04	8.50E-03	8.50E-04	< 0.0013 U	--	< 0.013 U	--	1.20E-01	1.20E-02	< 0.0065 U	--	< 0.0013 U	--
Chrysene	1.10E+02	1.30E+03	1.00E-03	mg/kg	2.90E-03	2.90E-06	3.20E-02	3.20E-05	< 0.0025 U	--	0.015 J	1.50E-05	3.20E-01	3.20E-04	0.018	1.80E-05	< 0.0025 U	--
Dibenzo(A,H)Anthracene	2.80E-02	3.10E-01	1.00E+00	mg/kg	0.0025 J	2.50E-03	1.80E-02	1.80E-02	< 0.0025 U	--	< 0.025 U	--	<u>6.40E-02</u>	6.40E-02	0.013	1.30E-02	< 0.0025 U	--
Fluoranthene	2.40E+03**	1.80E+04**	--	mg/kg	0.003	--	0.039	--	< 0.0013 U	--	< 0.013 U	--	0.25	--	< 0.0065 U	--	< 0.0013 U	--
Fluorene	2.30E+03**	1.70E+04**	--	mg/kg	< 0.0025 U	--	< 0.005 U	--	< 0.0025 U	--	< 0.025 U	--	3.20E-02	--	< 0.012 U	--	< 0.0025 U	--
Indeno(1,2,3-Cd)Pyrene	1.10E+00	1.30E+01	1.00E-01	mg/kg	3.10E-03	3.10E-04	1.90E-02	1.90E-03	< 0.0025 U	--	< 0.025 U	--	2.10E-01	2.10E-02	< 0.012 U	--	< 0.0025 U	--
Naphthalene	2.00E+00	6.50E+00	--	mg/kg	<0.0013 U	--	1.10E-02	--	<0.0013 U	--	<0.013 U	--	6.10E-02	--	<0.0065 U	--	<0.0013 U	--
Phenanthrene	--	--	--	mg/kg	0.0045 J	--	0.037	--	< 0.005 U	--	< 0.05 U	--	0.23	--	0.024 J	--	< 0.005 U	--
Pyrene	1.80E+03**	1.30E+04**	--	mg/kg	0.0053	--	0.046	--	0.0012 J	--	0.035	--	0.36	--	0.021	--	0.0015 J	--
Sum of B(a)P TEQ	1.10E-01	1.30E+00					0.01	0.05		0.0001		0.03	<u>0.27</u>		0.03		0.00	

**Notes**

- J - Estimated value
- U - Indicates that the compound was analyzed for but not detected
- ft bls - Feet below land surface
- mg/kg - Milligrams per kilogram
- DTSC HERO - Department of Toxic Substances Control Human and Ecological Risk Office
- No Standards available
- \*\* The more conservative DTSC HERO Screening Level was used - in this case, the noncancer criteria was less than the cancer criteria.
- B(a)P Benzo(a)Pyrene
- TEF B(a)P Toxic Equivalency Factor
- TEQ Toxic Equivalents
- PAHs - by United States Environmental Protection Agency Method 8270C-SIM

The soil data was screened against the HERO Human Health Risk Assessment (HHRA) Note No. 3, DTSC-modified Screening Levels (SLs), April 2019.  
Underlined and italicized data indicates that parameter was detected above the DTSC Hero Recommended Screening Levels for Residential Soil - Cancer  
**Bold** data indicates that parameter was detected above the DTSC Hero Recommended Screening Levels for Commercial Soil - Cancer

**Table 4. Summary of Metals in Soil  
285 12th Street, Oakland, California**

Parameter	HERO HHRA Note 3 Residential Screening Levels	HERO HHRA Note 3 Commercial Screening Levels	Unit	Sample ID:	RB-1-0.0	RB-1-3.0	RB-1-5.0	RB-2-0.0	RB-2-3.0	RB-2-5.0	RB-3-0.0	RB-3-3.0	RB-3-5.0	RB-4-0.0	RB-4-3.0	RB-4-5.0	RB-5-0.0	RB-5-3.0	RB-5-5.0			
				Boring ID:	RB-1	RB-1	RB-1	RB-2	RB-2	RB-2	RB-3	RB-3	RB-3	RB-4	RB-4	RB-4	RB-5	RB-5	RB-5			
				Sample Date:	01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/02/2020	01/02/2020	01/02/2020	01/02/2020	01/02/2020	01/02/2020
				Sample Depth (ft bls):	0	3	5	0	3	5	0	3	5	0	3	5	0	3	5	0	3	5
Antimony	--	--	mg/kg	2.9	0.14 J	0.21 J	0.44 J	0.43 J	0.23 J	0.26 J	3	0.16 J	0.41 J	0.16 J	0.19 J	0.46 J	0.26 J	0.21 J				
Arsenic <sup>1</sup>	1.10E-01	3.60E-01	mg/kg	3.7	1.7	3.2	5.4	1.9	3.2	3.5	4.7	2.6	10	2.4	3.2	4.8	2	3.3				
Barium	--	--	mg/kg	120	48	54	230	52	70	250	200	49	420	78	63	280	48	81				
Beryllium	1.60E+01**	2.30E+02**	mg/kg	0.27 J	0.20 J	0.32 J	0.48 J	0.20 J	0.37 J	0.91	0.29 J	0.27 J	0.67	0.24 J	0.34 J	0.71	0.20 J	0.39 J				
Cadmium	--	--	mg/kg	0.48	< 0.25 U	< 0.25 U	0.084 J	< 0.25 U	< 0.25 U	0.11 J	0.44	< 0.25 U	0.12 J	0.072 J	< 0.25 U	0.098 J	< 0.25 U	0.060 J				
Chromium	--	--	mg/kg	32	35	50	37	35	72	15	39	53	33	46	60	16	37	72				
Cobalt	--	--	mg/kg	4.1	3.3	7.7	6.4	3.8	5	11	5.6	7.8	6.4	4.8	7.2	11	3.5	7.1				
Copper	--	--	mg/kg	8	5.9	7.8	18	6	9.6	18	27	7.6	20	8.7	8.6	24	11	9.8				
Lead	8.00E+01**	3.20E+02**	mg/kg	28	2.8	3.1	53	2.8	3.7	20	<b>380</b>	3.1	<i>110</i>	10	3.7	27	29	4.5				
Mercury	1.00E+00**	4.40E+00**	mg/kg	0.082	0.020 J	0.018 J	0.21	0.014 J	0.030 J	0.43	0.97	0.025 J	0.87	0.037 J	0.061	0.49	0.21	0.033 J				
Molybdenum	--	--	mg/kg	0.26 J	< 0.5 U	0.25 J	0.66	0.24 J	0.031 J	0.44 J	0.5 J	0.27 J	0.46 J	0.25 J	0.25 J	0.37 J	< 0.5 U	0.42 J				
Nickel	8.20E+02**	1.10E+04**	mg/kg	20	18	35	31	18	43	24	24	33	31	23	40	28	17	47				
Selenium	--	--	mg/kg	0.16 J	< 0.5 U	0.15 J	0.14 J	0.21 J	0.25 J	0.30 J	< 0.5 U	0.13 J	0.14 J	0.15 J	0.17 J	0.36 J	< 0.5 U	0.18 J				
Silver	--	--	mg/kg	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.12 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U				
Thallium	--	--	mg/kg	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.12 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.14 J	< 0.5 U	0.11 J				
Vanadium (Fume Or Dust)	--	--	mg/kg	27	25	40	42	26	49	29	29	37	36	32	43	33	26	47				
Zinc	--	--	mg/kg	98	16	23	50	17	29	55	390	23	62	22	26	62	24	32				
Asbestos	--	--	%	< 0.25 U	--	--	< 0.25 U	--	--	< 0.25 U	--	--	< 0.25 U	--	--	< 0.25 U	--	--				

**Notes**

- J - Estimated value
- U - Indicates that the compound was analyzed for but not detected
- ft bls - Feet below land surface
- mg/kg - Milligrams per kilogram
- DTSC HERO - Department of Toxic Substances Control Human and Ecological Risk Office
- No Standards available
- CAM 17 Metals - by United States Environmental Protection Agency Method 6020/7471B
- Asbestos - by CARB 435

\*\* The more conservative DTSC HERO Screening Level was used - in this case, the noncancer criteria was less than the cancer criteria.

<sup>1</sup> - Arsenic concentrations are compared to established and accepted background concentrations of 11 mg/kg as established by D.J. Duvergé in *Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region*.

A thesis submitted to the faculty of San Francisco State University in Partial Fulfillment of the Requirement for the Degree, Master of Science in Geosciences dated December 2011

The soil data was screened against the HERO Human Health Risk Assessment (HHRA) Note No. 3, DTSC-modified Screening Levels (SLs), April 2019.

Underlined and italicized data indicates that parameter was detected above the DTSC Hero Recommended Screening Levels for Residential Soil - Cancer

**Bold** data indicates that parameter was detected above the DTSC Hero Recommended Screening Levels for Commercial Soil - Cancer

**Table 5. Summary of Polychlorinated Biphenyls in Soil  
285 12th Street, Oakland, California**

		Sample ID:	RB-1-0.0	RB-2-0.0	RB-2-3.0	RB-3-0.0	RB-4-0.0	RB-5-0.0	RB-5-3.0
		Boring ID:	RB-1	RB-2	RB-2	RB-3	RB-4	RB-5	RB-5
		Sample Date:	01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/02/2020	01/02/2020	01/02/2020
		Sample Depth (ft bls):	0	0	3	0	0	0	3
Parameter	HERO HHRA Note 3 Residential Screening Levels	Unit							
Aroclor 1016	4.00E+00**	mg/kg	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U
Aroclor 1221	2.00E-01	mg/kg	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U
Aroclor 1232	1.70E-01	mg/kg	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U
Aroclor 1242	2.30E-01	mg/kg	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U
Aroclor 1248	2.30E-01	mg/kg	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U
Aroclor 1254	2.40E-01	mg/kg	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U
Aroclor 1260	2.40E-01	mg/kg	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U
Polychlorinated biphenyls (PCBs)	2.30E-01	mg/kg	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U

Notes

- J - Estimated value
  - U - Indicates that the compound was analyzed for but not detected
  - ft bls - Feet below land surface
  - mg/kg - Milligrams per kilogram
  - DTSC HERO - Department of Toxic Substances Control Human and Ecological Risk Office
  - No Standards available
  - \*\* The more conservative DTSC HERO Screening Level was used - in this case, the noncancer criteria was less than the cancer criteria.
  - PCBs - by United States Environmental Protection Agency Method 8081A
- The soil data was screened against the HERO Human Health Risk Assessment (HHRA) Note No. 3, DTSC-modified Screening Levels (SLs), April 2019.

**Table 6. Summary of Pesticides in Soil  
285 12th Street, Oakland, California**

		Sample ID:	RB-1-0.0	RB-2-0.0	RB-2-3.0	RB-3-0.0	RB-4-0.0	RB-5-0.0	RB-5-3.0
		Boring ID:	RB-1	RB-2	RB-2	RB-3	RB-4	RB-5	RB-5
		Sample Date:	01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/02/2020	01/02/2020	01/02/2020
		Sample Depth (ft bls):	0	0	3	0	0	0	3
Parameter	HERO HHRA Note 3 Residential Screening Levels	Unit							
4,4'-DDD	1.90E+00**	mg/kg	0.00085	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	0.000082 J	0.00043
4,4'-DDE	2.00E+00	mg/kg	< 0.0001 U	0.00017	< 0.0001 U	0.0001	< 0.0001 U	0.00026	0.00016
4,4'-Ddt	1.90E+00	mg/kg	0.000094 J	0.00012	< 0.0001 U	0.0002	0.00023	0.00081	0.0022
Aldrin	2.00E+00	mg/kg	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U
Alpha-Bhc	8.60E-02	mg/kg	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U
Alpha-Chlordane	--	mg/kg	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	0.00011	0.00018
Beta-Bhc	3.00E-01	mg/kg	< 0.0003 U	< 0.0003 U	< 0.0003 U	< 0.0003 U	< 0.0003 U	< 0.0003 U	< 0.0003 U
Chlordane (technical)	1.70E+00	mg/kg	< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0025 U
Chlorinated Camphene	4.50E-01	mg/kg	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U
Delta-Bhc	--	mg/kg	< 0.0002 U	< 0.0002 U	< 0.0002 U	< 0.0002 U	< 0.0002 U	< 0.0002 U	< 0.0002 U
Dieldrin	3.40E-02	mg/kg	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U
Endosulfan I	--	mg/kg	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U
Endosulfan li	--	mg/kg	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U
Endosulfan Sulfate	--	mg/kg	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U
Endrin	1.90E+01**	mg/kg	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U
Endrin Aldehyde	--	mg/kg	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U
Endrin Ketone	--	mg/kg	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U
Gamma-Bhc (Lindane)	5.70E-01	mg/kg	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U
g-Chlordane	--	mg/kg	< 0.0001 U	0.000078 J	< 0.0001 U	0.000083 J	< 0.0001 U	0.00012	0.00022
Heptachlor	1.30E-01	mg/kg	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U
Heptachlor Epoxide	7.00E-02	mg/kg	< 0.0001 U	0.00023	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U	< 0.0001 U
Hexachlorobenzene	1.90E-01	mg/kg	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U
Hexachlorocyclopentadiene	--	mg/kg	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U
Methoxychlor	3.20E+02**	mg/kg	< 0.0002 U	< 0.0002 U	< 0.0002 U	< 0.0002 U	< 0.0002 U	< 0.0002 U	< 0.0002 U

**Notes**

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

ft bls - Feet below land surface

mg/kg - Milligrams per kilogram

DTSC HERO - Department of Toxic Substances Control Human and Ecological Risk Office

-- No Standards available

\*\* The more conservative DTSC HERO Screening Level was used - in this case, the noncancer criteria was less than the cancer criteria.

OCPs - by United States Environmental Protection Agency Method 8082

The soil data was screened against the HERO Human Health Risk Assessment (HHRA) Note No. 3, DTSC-modified Screening Levels (SLs), April 2019.

**Table 7. Summary of Petroleum Hydrocarbons in Soil  
285 12th Street, Oakland, California**

Parameter	HERO HHRA Note 3 Residential Screening Levels	HERO HHRA Note 3 Commercial Screening Levels	SFBRWQCB Residential Shallow Soil Exposure Non-Cancer Hazard	SFBRWQCB Commercial Shallow Soil Exposure Non-Cancer Hazard	Unit	Sample ID:	RB-1-0.0	RB-1-3.0	RB-1-5.0	RB-1-10	RB-1-15.0	RB-2-0.0	RB-2-3.0	RB-3-0.0	RB-3-3.0	RB-4-0.0	RB-4-3.0	RB-5-0.0	RB-5-3.0	RB-5-5.0	
						Boring ID:	RB-1	RB-1	RB-1	RB-1	RB-1	RB-2	RB-2	RB-3	RB-3	RB-4	RB-4	RB-5	RB-5	RB-5	
						Sample Date:	01/03/2020	01/03/2020	01/03/2020	3/12/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/02/2020	01/02/2020	01/02/2020	01/02/2020	01/02/2020
						Sample Depth (ft bls):	0	3	5	10	15	0	3	0	3	0	3	0	3	0	3
TPH-Gasoline (C6-C12)	--	--	4.30E+02	2.00E+03	mg/kg	<0.24 U	<0.25 U	<0.22 U	<1.0 U	<0.19 U	1.6	<0.26 U	<0.23 U	<0.25 U	<0.23 U	<0.25 U	<0.23 U	<0.25 U	<0.23 U	<0.21 U	
TPH-Diesel (C10-C23)	--	--	2.55E+02	1.20E+03	mg/kg	15	< 1 U	< 1 U	<1.0 U	--	160	< 1 U	120	24	99	< 1 U	98	< 1 U	< 1 U		
TPH-Motor Oil (C18-C36)	4.70E+02	2.10E+04	1.20E+04	1.80E+05	mg/kg	150	7.8	< 5 U	--	--	<u>1.100</u>	< 5 U	<u>990</u>	260	<u>720</u>	< 5 U	790	8.8	< 5 U		

**Notes**

- J - Estimated value
- U - Indicates that the compound was analyzed for but not detected
- ft bls - Feet below land surface
- mg/kg - Milligrams per kilogram
- DTSC HERO - Department of Toxic Substances Control Human and Ecological Risk Office
- No standards or analytical results available
- TPH-g - by United States Environmental Protection Agency Method 8260B
- TPH-d/-mo - by United States Environmental Protection Agency Method 8015B
- \* RBMW-1 was collected from a monitoring well installed at the Site near RB-1.

TPH soil analytical data is screened against the HERO Human Health Risk Assessment (HHRA) Note No. 3, DTSC-modified Screening Levels (SLs), April 2019. Where DTSC-SLs are not available, TPH-g, TPH-d, and TPH-mo are screened against SFBRWQCB Residential Shallow Soil Exposure ESLs, January 2019. Underlined and italicized data indicates that parameter was detected above the DTSC Hero Recommended Screening Levels for Residential Soil - Cancer. **Bold** data indicates that parameter was detected above the DTSC Hero Recommended Screening Levels for Commercial Soil - Cancer.

**Table 8. Summary of Volatile Organic Compounds in Groundwater  
285 12th Street, Oakland, California**

Parameter	HERO HHRA Note 3 Tap Water Screening Levels	SFBRWQCB Direct Exposure Human Health Risk Levels - MCL Priority	Units	Sample ID:	RB-1-GW	RB-2-GW	RB-3-GW	RBMW-1*
				Boring ID:	RB-1	RB-2	RB-3	RBMW-1*
				Sample Date:	01/03/2020	01/03/2020	01/03/2020	4/3/2020
1,1,1-Trichloroethane	2.00E+03**	2.00E+02	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	<0.5 U	
1,1,2,2-Tetrachloroethane	7.60E-02	1.00E+00	µg/L	< 0.02 U	< 0.02 U	< 0.02 U	<0.5 U	
1,1,2-Trichloro- 1,2-trifluoroethane	--	--	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
1,1,2-Trichloroethane	--	5.00E+00	µg/L	< 0.2 U	< 0.2 U	< 0.2 U	<0.5 U	
1,1-Dichloroethane	2.80E+00	5.00E+00	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	<0.5 U	
1,2-Dichlorobenzene	--	1.00E+02	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	<0.5 U	
1,2-Dichloroethane	--	<b>5.00E-01</b>	µg/L	<b>4.6</b>	<b>9.9</b>	0.041	<b>4.6</b>	
1,2-Dichloropropane	--	5.00E+00	µg/L	0.076 J	0.091 J	< 0.2 U	<0.5 U	
1,3-Dichlorobenzene	--	6.00E+02	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	<0.5 U	
1,4-Dichlorobenzene	--	5.00E+00	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	<0.5 U	
2-Butanone	--	5.57E+03	µg/L	< 5 U	< 5 U	< 5 U	< 5 U	
2-Hexanone	--	--	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	<1 U	
4-Methyl- 2-Pentanone	--	1.20E+02	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
Acetone	--	1.41E+04	µg/L	< 10 U	< 10 U	< 10 U	<40 U	
Benzene	1.50E-01	1.00E+00	µg/L	0.13 J	0.077 J	0.058 J	<u>&lt;0.5 U</u>	
Bromodichloromethane	1.30E-01	8.00E+01	µg/L	< 0.05 U	< 0.05 U	< 0.05 U	<u>&lt;0.5 U</u>	
Bromoform	3.30E+00	8.00E+01	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	<0.5 U	
Bromomethane	--	7.55E+00	µg/L	0.21 J	< 0.5 U	0.28 J	<0.5 U	
Carbon Disulfide	--	--	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	<0.5 U	
Carbon Tetrachloride	4.60E-01	5.00E-01	µg/L	< 0.05 U	< 0.05 U	< 0.05 U	<u>&lt;0.5 U</u>	
Chlorobenzene	--	7.00E+01	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	<0.5 U	
Chloroethane	--	2.09E+04	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	<0.5 U	
Chloroform	--	8.00E+01	µg/L	< 0.1 U	< 0.1 U	0.18	<0.5 U	
Chloromethane	--	1.88E+02	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	<0.5 U	
Cis-1,2-Dichloroethene	1.20E+01**	6.00E+00	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	<0.5 U	
Cis-1,3-Dichloropropene	--	--	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	<0.5 U	
Ethylbenzene	--	3.00E+01	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	<0.5 U	
Methyl T-Butyl Ether (MTBE)	--	5.00E+00	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
Methylene Chloride	1.70E+00	5.00E+00	µg/L	<u>&lt; 2 U</u>	<u>&lt; 2 U</u>	<u>&lt; 2 U</u>	<u>&lt; 2 U</u>	
Styrene	1.10E+03**	1.00E+01	µg/L	< 2 U	< 2 U	< 2 U	< 2 U	
Tetrachloroethylene	8.40E-02	5.00E+00	µg/L	<u>&lt; 0.2 U</u>	<u>&lt; 0.2 U</u>	<u>&lt; 0.2 U</u>	<u>&lt; 0.5 U</u>	
Toluene	4.10E+02**	4.00E+01	µg/L	0.19 J	< 0.5 U	0.21 J	<0.5 U	
Trans-1,2-Dichloroethene	1.10E+02**	1.00E+01	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	<0.5 U	
Trans-1,3-Dichloropropene	--	--	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	<0.5 U	
Trichloroethylene	--	5.00E+00	µg/L	< 0.2 U	< 0.2 U	< 0.2 U	<0.5 U	
Trichlorofluoromethane	1.70E+03**	--	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	<0.5 U	
Vinyl Chloride	9.80E-03	5.00E-01	µg/L	< 0.005 U	< 0.005 U	< 0.005 U	<u>&lt;0.5 U</u>	
Xylene, o	--	--	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	<0.5 U	
Xylenes, Total	--	2.00E+01	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	<0.5 U	
ALL OTHER VOCs	--	--	µg/L	--	--	--	--	

Notes

- J - Estimated Value
- U - Compound was analyzed for but not detected
- µg/L - Micrograms per liter
- DTSC HERO - Department of Toxic Substances Control Human and Ecological Risk Office
- SFBRWQCB - San Francisco Bay Regional Water Quality Control Board
- MCL - Maximum Contaminant Levels
- No Standards available or sample not tested for specific compound
- VOCs - Volatile Organic Compounds

\* RBMW-1 was collected from a monitoring well installed at the Site near RB-1.

\*\* The more conservative DTSC HERO Screening Level was used - in this case, the noncancer criteria was less than the cancer criteria.

The groundwater data was screened against the HERO Human Health Risk Assessment (HHRA) Note No. 3, DTSC-modified Screening Levels (SLs), April 2019.

Where DTSC-SLs are not available, VOCs are screened against SFBRWQCB MCL Priority Levels, January 2019.

Underlined and italicized data indicates that parameter was non-detect with a reporting limit above the DTSC Hero Recommended Screening Levels for Residential Soil - Cancer

**Bold** data indicates that parameter was detected above the RWQCB ESL - MCL Priority.

**Table 9. Summary of Petroleum Hydrocarbons in Groundwater  
285 12th Street, Oakland, California**

		Sample ID:	RB-1-GW	RB-2-GW	RB-3-GW	RBMW-1*
		Boring ID:	RB-1	RB-2	RB-3	RBMW-1*
		Sample Date:	01/03/2020	01/03/2020	01/03/2020	4/3/2020
Parameter	HERO HHRA Note 3 Tap Water Screening Levels	SFBRWQCB MCL Priority Levels	Unit			
TPH-Gasoline (C6-C12)	--	7.60E+02	µg/L	<50 U	<50 U	<50 U
TPH-Diesel (C10-C23)	--	<b>1.99E+02</b>	µg/L	<b>3900</b>	<b>1400</b>	100
TPH-Motor Oil (C18-C36)	--	--	µg/L	33000	10000	390

**Notes**

J - Estimated Value

U - Compound was analyzed for but not detected

µg/L - Micrograms per liter

SFBRWQCB - San Francisco Bay Regional Water Quality Control Boards

MCL - Maximum Contaminant Levels

-- No Standards available

TPH-g - by United States Environmental Protection Agency Method 8260B

\* RB-1-10.0 was collected from the boring advanced for the installation of groundwater monitoring well RBMW-1

TPH groundwater analytical data is screened against the HERO Human Health Risk Assessment (HHRA) Note No. 3, DTSC-modified Screening Levels (SLs), April 2019.

Where DTSC-SLs are not available, TPH-g and TPH-d are screened against SFBRWQCB MCL Priority Levels, January 2019.

**Bold** data indicates that parameter was detected above the SFBRWQCB MCL Priority Levels



**Table 10. Summary of Volatile Organic Compounds in Soil Gas by TO-15  
285 12th Street, Oakland, California**

Parameter	DTSC HERO Note 3 Commercial Screening Levels Ambient Air - Cancer Risk	DTSC HERO Note 3 Commercial Screening Levels Soil Gas - AF 0.03	DTSC HERO Note 3 Commercial Screening Levels Soil Gas - AF 0.001	DTSC HERO Note 3 Residential Screening Levels Ambient Air - Cancer Risk	DTSC HERO Note 3 Residential Screening Levels Soil Gas - AF 0.03	DTSC HERO Note 3 Residential Screening Levels Soil Gas - AF 0.001	SWRCB Low Threat Closure	Unit	Sample ID:	RB-1-SV	RB-1-SV	RB-2-SV	RB-2-SV	RB-3-SV	RB-3-SV	RB-4-SV	RB-5-SV
									Boring ID:	RB-1	RB-1	RB-2	RB-2	RB-3	RB-3	RB-4	RB-5
									Sample Date:	01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/02/2020	01/03/2020
									Sample Depth (ft bls):	8	15	8	15	8	15	8	8
1,1,1-Trichloroethane	4.40E+03**	1.47E+05**	4.40E+06**	1.00E+03**	3.33E+04**	1.00E+06**	--	µg/m <sup>3</sup>	< 3.4 U	1.1 J	3.0 J	23	< 3.2 U	< 3.2 U	230	< 2.7 U	
1,1,2,2-Tetrachloroethane	2.10E-01	7.00E+00	2.10E+02	4.80E-02	1.60E+00	4.80E+01	--	µg/m <sup>3</sup>	< 4.3 U	< 4.0 U	< 3.8 U	< 4.2 U	< 4.0 U	< 4.1 U	< 4.2 U	< 3.4 U	
1,1,2-Trichloroethane	--	--	--	--	--	--	--	µg/m <sup>3</sup>	< 3.4 U	< 3.2 U	< 3.0 U	< 3.3 U	< 3.2 U	< 3.2 U	< 3.4 U	< 2.7 U	
1,1-Dichloroethane	7.70E+00	2.57E+02	7.70E+03	1.80E+00	6.00E+01	1.80E+03	--	µg/m <sup>3</sup>	< 2.5 U	< 2.4 U	< 2.3 U	< 2.5 U	< 2.3 U	< 2.4 U	< 2.5 U	< 2.0 U	
1,2,4-Trichlorobenzene	1.70E+00	5.67E+01	1.70E+03	3.80E-01	1.27E+01	3.80E+02	--	µg/m <sup>3</sup>	< 12 U	< 11 U	< 10 U	< 11 U	< 11 U	< 11 U	< 11 U	< 9.2 U	
1,2-Dichlorobenzene	--	--	--	--	--	--	--	µg/m <sup>3</sup>	< 3.8 U	< 3.5 U	< 3.4 U	< 3.7 U	< 3.5 U	< 3.6 U	< 3.7 U	< 3.0 U	
1,2-Dichloroethane <sup>1</sup>	4.70E-01	1.57E+01	4.70E+02	1.10E-01	3.67E+00	1.10E+02	--	µg/m <sup>3</sup>	1.2 J	0.79 J	0.46 J	1.7 J	< 2.3 U	6.5	< 2.5 U	< 2.0 U	
1,2-Dichloropropane	--	--	--	--	--	--	--	µg/m <sup>3</sup>	< 2.9 U	< 2.7 U	< 2.6 U	< 2.8 U	< 2.7 U	< 2.7 U	< 2.8 U	< 2.3 U	
1,3-Dichlorobenzene	--	--	--	--	--	--	--	µg/m <sup>3</sup>	32	67	34	180	15	65	41	0.86 J	
1,4-Dichlorobenzene	--	--	--	--	--	--	--	µg/m <sup>3</sup>	< 3.8 U	< 3.5 U	< 3.4 U	< 3.7 U	< 3.5 U	< 3.6 U	< 3.7 U	< 3.0 U	
2,2,4-TRIMETHYLPENTANE	--	--	--	--	--	--	--	µg/m <sup>3</sup>	57	8.6	38	41	8.3	3.5 J	12	< 2.3 U	
2-Butanone	--	--	--	--	--	--	--	µg/m <sup>3</sup>	16	7.5 J	21	6.9 J	8.0 J	3.6 J	20	< 3.7 U	
2-Hexanone	--	--	--	--	--	--	--	µg/m <sup>3</sup>	0.72 J	0.79 J	1.0 J	0.67 J	< 5.9 U	< 6.1 U	1.9 J	< 5.1 U	
4-Methyl-2-Pentanone	--	--	--	--	--	--	--	µg/m <sup>3</sup>	2.7 J	10	2.2 J	2.4 J	< 2.4 U	5.3	5.0 U	< 2.0 U	
Acetone	--	--	--	--	--	--	--	µg/m <sup>3</sup>	64	42	76	41	35	21 J	68	9.9 J	
Benzene	4.20E-01	1.40E+01	4.20E+02	9.70E-02	3.23E+00	9.70E+01	8.50E+04	µg/m <sup>3</sup>	15	10	20	24	11	10	22	0.89 J	
Bromodichloromethane	3.30E-01	1.10E+01	3.30E+02	7.60E-02	2.53E+00	7.60E+01	--	µg/m <sup>3</sup>	1.8 J	< 3.9 U	< 3.8 U	< 4.1 U	2.0 J	< 4.0 U	< 4.1 U	< 3.3 U	
Bromoform	1.10E+01	3.67E+02	1.10E+04	2.60E+00	8.67E+01	2.60E+03	--	µg/m <sup>3</sup>	< 6.5 U	< 6.0 U	< 5.8 U	< 6.3 U	< 6.0 U	< 6.2 U	< 6.4 U	< 5.1 U	
Bromomethane	--	--	--	--	--	--	--	µg/m <sup>3</sup>	< 6.1 U	< 5.7 U	< 5.4 U	< 5.9 U	< 5.6 U	< 5.8 U	5.7 J	< 4.8 U	
Carbon Disulfide	--	--	--	--	--	--	--	µg/m <sup>3</sup>	9.1 J	12 J	17	31	11 J	< 8.9 U	8.5 J	< 7.4 U	
Carbon Tetrachloride	2.00E+00	6.67E+01	2.00E+03	4.70E-01	1.57E+01	4.70E+02	--	µg/m <sup>3</sup>	3.7 J	< 3.7 U	0.72 J	1.3 J	0.76 J	< 3.7 U	< 3.9 U	< 3.1 U	
Chlorobenzene	--	--	--	--	--	--	--	µg/m <sup>3</sup>	< 2.9 U	< 2.7 U	< 2.6 U	< 2.8 U	< 2.7 U	< 2.7 U	< 2.8 U	< 2.3 U	
Chlorodibromomethane	5.80E-01	1.93E+01	5.80E+02	1.30E-01	4.33E+00	1.30E+02	--	µg/m <sup>3</sup>	< 5.3 U	< 5.0 U	< 4.8 U	< 5.2 U	< 4.9 U	< 5.1 U	< 5.3 U	< 4.2 U	
Chloroethane	--	--	--	--	--	--	--	µg/m <sup>3</sup>	< 4.1 U	< 3.8 U	< 3.7 U	< 4.0 U	< 3.8 U	< 3.9 U	< 4.1 U	< 3.3 U	
Chloroform <sup>1</sup>	5.30E-01	1.77E+01	5.30E+02	1.20E-01	4.10E+00	1.20E+02	--	µg/m <sup>3</sup>	63	16	24	49	33	1.3 J	2.1 J	< 2.4 U	
Chloromethane	--	--	--	--	--	--	--	µg/m <sup>3</sup>	< 3.2 U	< 3.0 U	< 2.9 U	< 3.2 U	< 3.0 U	< 3.1 U	< 3.2 U	< 2.6 U	
Cis-1,2-Dichloroethene	3.50E+01**	1.17E+03**	3.50E+04**	8.30E+00**	2.77E+02**	8.30E+03**	--	µg/m <sup>3</sup>	< 2.5 U	< 2.3 U	< 2.2 U	< 2.4 U	< 2.3 U	< 2.4 U	< 2.4 U	< 2.0 U	
Cis-1,3-Dichloropropene	--	--	--	--	--	--	--	µg/m <sup>3</sup>	< 2.8 U	< 2.6 U	< 2.5 U	< 2.8 U	< 2.6 U	< 2.7 U	< 2.8 U	< 2.2 U	
Cumene (isopropylbenzene)	--	--	--	--	--	--	--	µg/m <sup>3</sup>	< 3.1 U	0.70 J	< 2.8 U	1.0 J	< 2.8 U	< 2.9 U	1.4 J	< 2.4 U	
Dichlorodifluoromethane	--	--	--	--	--	--	--	µg/m <sup>3</sup>	2.2 J	2.4 J	1.9 J	2.2 J	2.2 J	2.1 J	2.0 J	2.3 J	
Ethylbenzene	--	--	--	--	--	--	1.10E+06	µg/m <sup>3</sup>	3.3 J	3.6 J	6.5	5.2 J	1.8 J	3.7 J	4.0 J	< 2.2 U	
Ethylene dibromide (dibromoethane, 1,2- )	2.00E-02	6.67E-01	2.00E+01	4.70E-03	1.57E-01	4.70E+00	--	µg/m <sup>3</sup>	< 4.8 U	< 4.5 U	< 4.3 U	< 4.7 U	< 4.4 U	< 4.6 U	< 4.7 U	< 3.8 U	
Freon 114	--	--	--	--	--	--	--	µg/m <sup>3</sup>	< 4.4 U	< 4.1 U	< 3.9 U	< 4.3 U	< 4.0 U	< 4.2 U	< 4.3 U	< 3.5 U	
Hexachlorobutadiene	5.60E-01	1.87E+01	5.60E+02	1.30E-01	4.33E+00	1.30E+02	--	µg/m <sup>3</sup>	< 17 U	< 16 U	< 15 U	< 16 U	< 15 U	< 16 U	< 16 U	< 13 U	
Methyl T-Butyl Ether (MTBE)	--	--	--	--	--	--	--	µg/m <sup>3</sup>	< 5.6 U	< 5.3 U	< 5.0 U	< 5.5 U	< 5.2 U	< 5.4 U	< 5.6 U	< 4.5 U	
Methylene Chloride	1.20E+01	4.00E+02	1.20E+04	1.00E+00	3.33E+01	1.00E+03	--	µg/m <sup>3</sup>	2.1 J	0.75 J	2.7 J	1.3 J	1.5 J	0.95 J	1.1 J	0.66 J	
Propylbenzene, n-	--	--	--	--	--	--	--	µg/m <sup>3</sup>	0.70 J	1.1 J	0.86 J	1.6 J	< 2.8 U	0.69 J	2.1 J	< 2.4 U	
Styrene	3.90E+03**	1.30E+05**	3.90E+06**	9.40E+02**	3.13E+04**	9.40E+05**	--	µg/m <sup>3</sup>	0.94 J	14	1.1 J	3.5 J	< 2.5 U	7.8	2.6 J	< 2.1 U	
Tetrachloroethylene	2.00E+00	6.67E+01	2.00E+03	4.60E-01	1.53E+01	4.60E+02	--	µg/m <sup>3</sup>	7.1 J	1.7 J	10	2.5 J	6.4 J	1.5 J	1.5 J	< 3.4 U	
Toluene	1.30E+03**	4.33E+04**	1.30E+06**	3.10E+02**	1.03E+04**	3.10E+05**	--	µg/m <sup>3</sup>	120	160	140	430	58	100	110	2.5 J	
Trans-1,2-Dichloroethene	3.50E+02**	1.17E+04**	3.50E+05**	8.30E+01**	2.77E+03**	8.30E+04**	--	µg/m <sup>3</sup>	< 2.5 U	< 2.3 U	< 2.2 U	< 2.4 U	< 2.3 U	< 2.4 U	< 2.4 U	< 2.0 U	
Trans-1,3-Dichloropropene	--	--	--	--	--	--	--	µg/m <sup>3</sup>	< 2.8 U	< 2.6 U	< 2.5 U	< 2.8 U	< 2.6 U	< 2.7 U	< 2.8 U	< 2.2 U	
Trichloroethylene <sup>1</sup>	3.00E+00	1.00E+02	3.00E+03	4.80E-01	1.60E+01	4.80E+02	--	µg/m <sup>3</sup>	< 3.4 U	< 3.1 U	< 3.0 U	< 3.3 U	< 3.1 U	< 3.2 U	< 3.3 U	< 2.7 U	
Trichlorofluoromethane	5.30E+03**	1.77E+05**	5.30E+06**	1.30E+03**	4.33E+04**	1.30E+06**	--	µg/m <sup>3</sup>	2.3 J	2.0 J	1.6 J	1.9 J	1.4 J	1.4 J	1.6 J	1.2 J	
Trimethylbenzene, 1,2,4-	--	--	--	--	--	--	--	µg/m <sup>3</sup>	3.9 J	6.4	3.8 J	6.8	1.6 J	1.9 J	14	< 2.4 U	
Trimethylbenzene, 1,3,5-	--	--	--	--	--	--	--	µg/m <sup>3</sup>	0.96 J	2.0 J	0.99 J	2.1 J	< 2.8 U	< 2.9 U	5.5 J	< 2.4 U	
Vinyl Chloride	1.60E-01	5.33E+00	1.60E+02	9.50E-03	3.17E-01	9.50E+00	--	µg/m <sup>3</sup>	< 1.6 U	< 1.5 U	< 1.4 U	< 1.6 U	< 1.5 U	< 1.5 U	< 1.6 U	< 1.3 U	
Vinylidene Chloride	3.10E+02**	1.03E+04**	3.10E+05**	7.30E+01**	2.43E+03**	7.30E+04**	--	µg/m <sup>3</sup>	< 2.5 U	< 2.3 U	< 2.2 U	< 2.4 U	< 2.3 U	< 2.4 U	< 2.4 U	< 2.0 U	
Xylene, m&p	--	--	--	--	--	--	--	µg/m <sup>3</sup>	9.3	9.4	17	12	5.9	9.7	11	0.98 J	
Xylene, o	--	--	--	--	--	--	--	µg/m <sup>3</sup>	2.8 J	3.6 J	4.8 J	5.1 J	1.6 J	3.0 J	4.9 J	0.36 J	

**Table 11. Summary of Soil Gas Results by ASTM-D1946  
285 12th Street, Oakland, California**

Sample ID:		RB-1-SV	RB-1-SV	RB-2-SV	RB-2-SV	RB-3-SV	RB-3-SV	RB-4-SV	RB-5-SV
Boring ID:		RB-1	RB-1	RB-2	RB-2	RB-3	RB-3	RB-4	RB-5
Sample Date:		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/02/2020	01/03/2020
Sample Depth (ft bls):		8	15	8	15	8	15	8	8
Parameter	Unit								
Helium	%	< 0.016 U	< 0.014 U	< 0.014 U	< 0.015 U	< 0.014 U	< 0.015 U	< 0.015 U	< 0.012 U
Oxygen	%	14	10	15	12	18	15	15	21
Methane	%	0.0017	0.00095	<0.00022 U	0.0027	<0.00023 U	0.00068	0.0015	0.00024
Carbon Dioxide	%	3.4	8.7	4.2	7.8	0.52	5.2	2.1	0.12

Notes

- J - Estimated value
- U - Indicates that the compound was analyzed for but not detected
- ft bls - Feet below land surface
- µg/m<sup>3</sup> - Micrograms per cubic meter
- No Standards available

**Table 12. Summary of Lead in Step-Out Borings Surrounding RB-3 and RB-4  
285 12th Street, Oakland, California**

			Parameter
			Unit
			Lead
			mg/kg
HERO HHRA Note 3 Residential Screening Level - Noncancer Hazard			<b>8.00E+01</b>
Sample ID	Sample Depth (ft bls)	Sample Date	
<b>RB-3-SO1-3.0-A</b>	3	3/12/2020	2.70E+00
<b>RB-3-SO1-B</b>	3	3/12/2020	2.40E+00
<b>RB-3-SO1-C</b>	3	3/12/2020	2.40E+00
<b>RB-3-SO1-3.0-D</b>	3	3/12/2020	3.40E+00
<b>RB-4-SO1-A-0.0</b>	0	3/12/2020	<b>1.10E+02</b>
<b>RB-4-SO2-A-0.0</b>	0	3/13/2020	<b>1.50E+02</b>
<b>RB-4-SO3-A-0.0</b>	0	3/13/2020	3.80E+01
<b>RB-4-SO1-B-0.0</b>	0	3/12/2020	4.90E+01
<b>RB-4-SO1-C-0.0</b>	0	3/12/2020	<b>1.80E+02</b>
<b>RB-4-SO2-C-0.0</b>	0	3/13/2020	1.40E+01
<b>RB-4-SO1-D-0.0</b>	0	3/12/2020	5.70E+01

Notes

ft bls - Feet below land surface

mg/kg - Milligrams per kilogram

DTSC HERO - Department of Toxic Substances Control Human and Ecological Risk Office

Lead by United States Environmental Protection Agency Method 6020

The soil data was screened against the HERO Human Health Risk Assessment (HHRA) Note No. 3, DTSC-modified Screening Levels (SLs), April 2019.

**Bold** data indicates that parameter was detected above the DTSC Hero Recommended Screening Levels for Residential Soil

1. Site Location Map
2. Site Plan
3. Step-Out Boring Locations
4. Extent of Lead Contamination





**QUADRANGLE LOCATION**

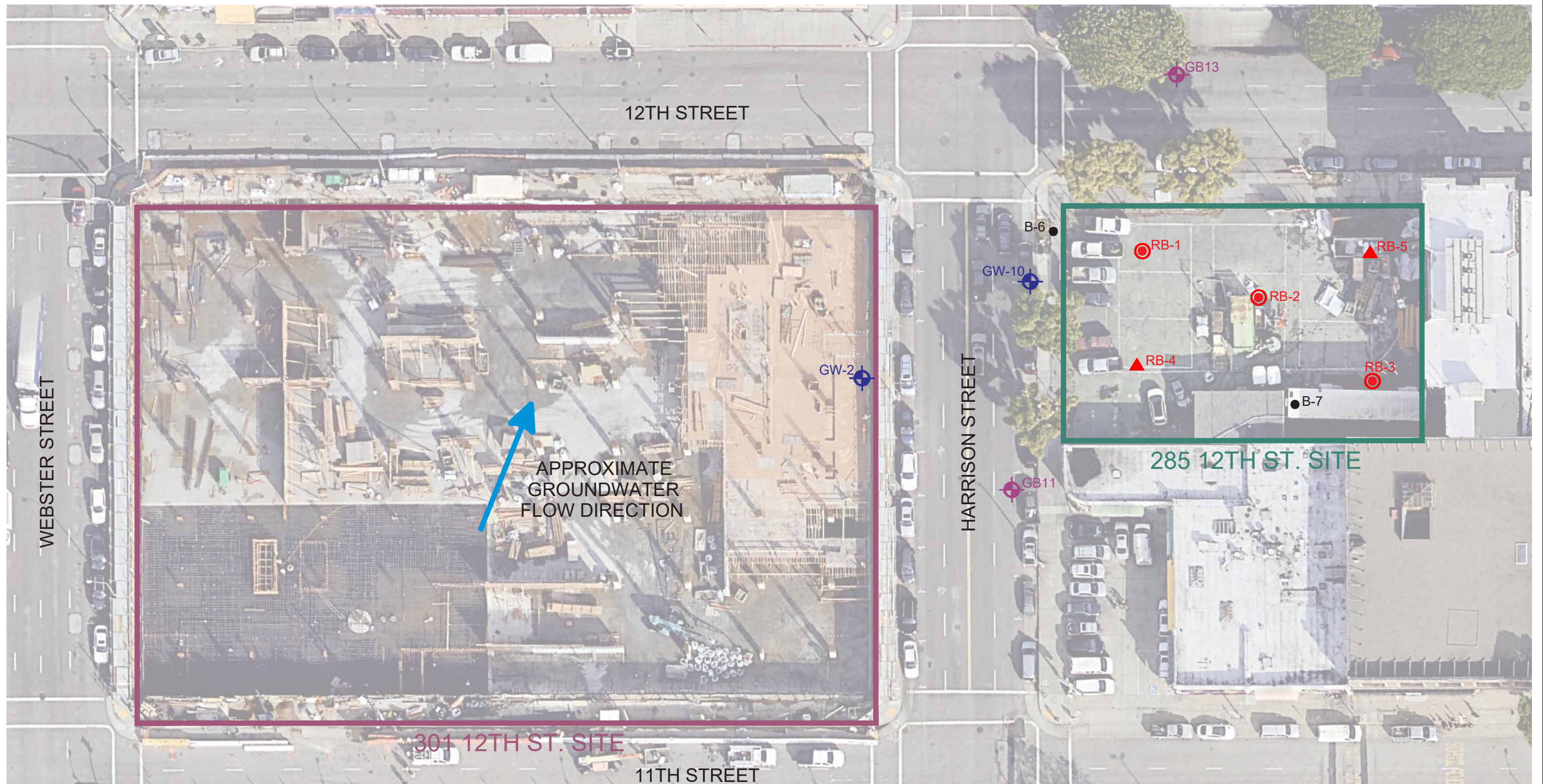


SOURCE:  
USGS; 2015, Oakland West, CA  
7.5 Minute Topographic Quadrangle



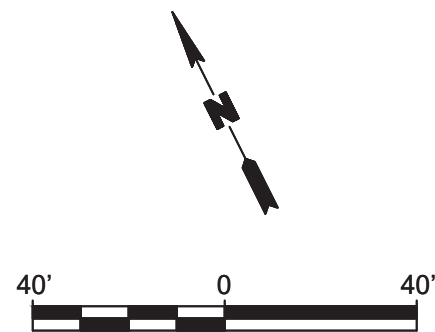
Title:			<b>SITE LOCATION MAP</b>	
			285 12TH STREET OAKLAND, CALIFORNIA	
Prepared for:			EAST BAY ASIAN LOCAL DEVELOPMENT CORPORATION	
	Compiled by: A.B.	Date: 22APRIL2020	FIGURE	
	Prepared by: A.B.	Scale: AS SHOWN	<b>1</b>	
	Project Mgr: T.B.	Project: 3374.0003S000		
	File: 285 12TH STREET.DWG			





**LEGEND**

- 285 12TH STREET SITE BOUNDARY
- 301 12TH STREET SITE BOUNDARY
- APPROXIMATE SOIL, GROUNDWATER, & SOIL VAPOR SAMPLE LOCATION (ROUX 2020)
- APPROXIMATE SOIL & SOIL VAPOR SAMPLE LOCATION (ROUX 2020)
- B-6 ● APPROXIMATE BORING LOCATION (BY OTHERS)
- GW-2 ● APPROXIMATE MONITORING WELL LOCATION (ASSOCIATED WITH 301 12TH STREET)
- GB11 ● APPROXIMATE GROUNDWATER GRAB SAMPLE LOCATION (BY OTHERS)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW AS REPORTED BY PES (PES 2016)

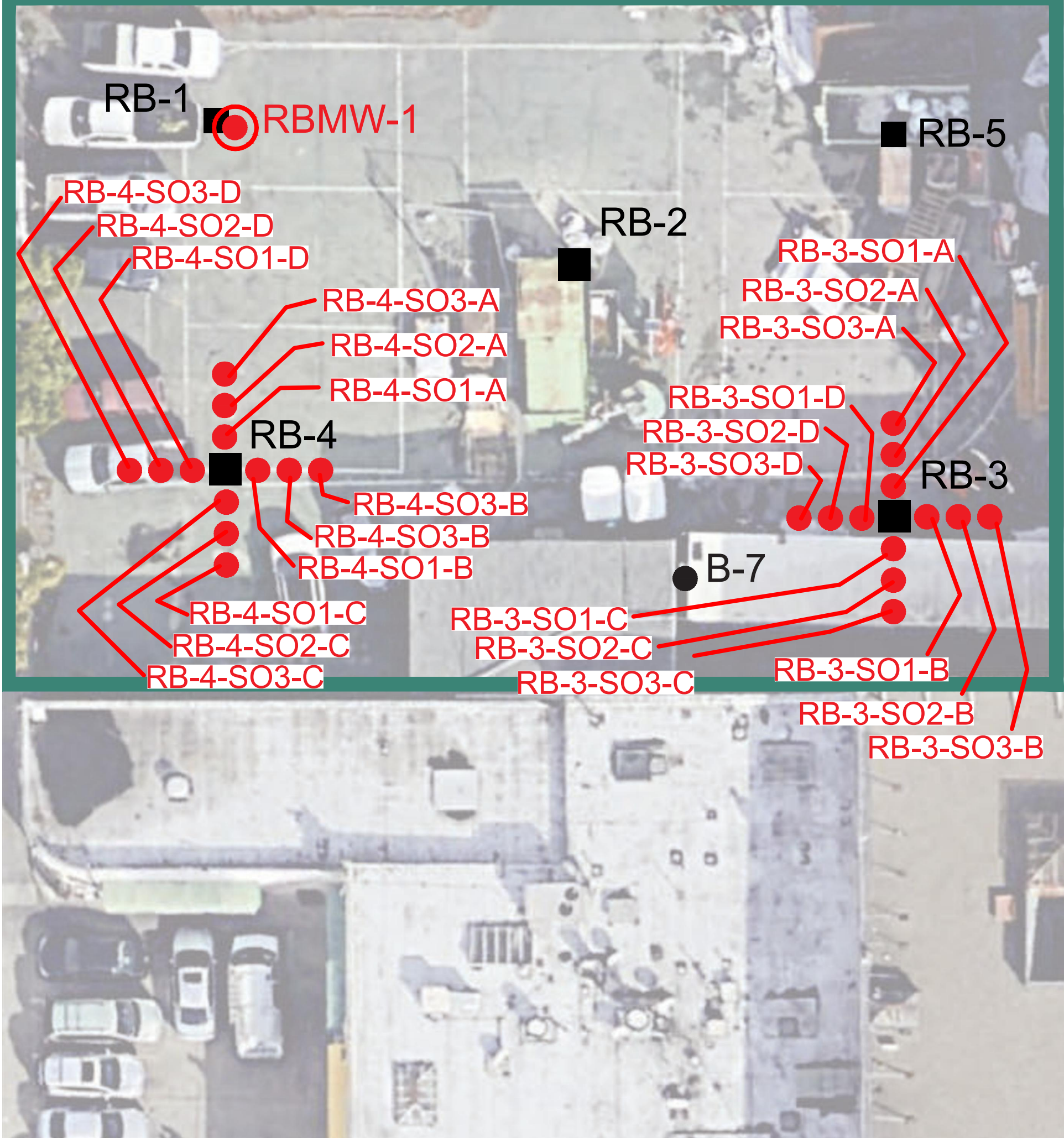


<b>285 &amp; 301 12TH STREET OAKLAND, CALIFORNIA</b>		
Prepared for: EAST BAY ASIAN LOCAL DEVELOPMENT CORPORATION		
<b>ROUX</b>	Compiled by: A.B.    Date: 22APRIL2020 Prepared by: A.B.    Scale: AS SHOWN Project Mgr: T.B.    Project: 3374.0003S000 File: 285 12TH STREET.DWG	FIGURE <b>2</b>







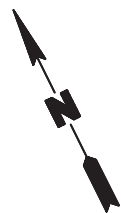
# 12TH STREET

## 285 12TH ST. SITE



**LEGEND**

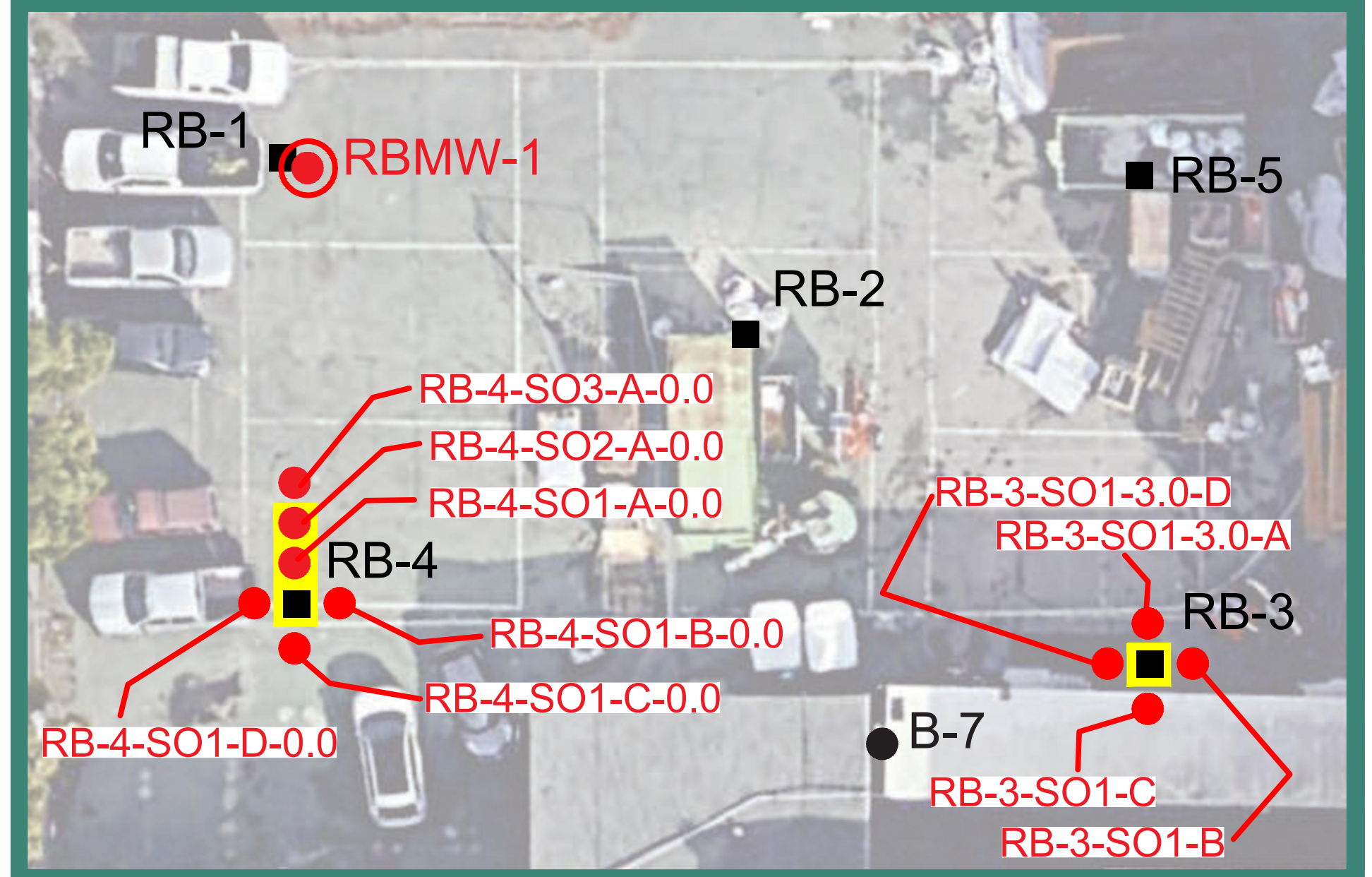
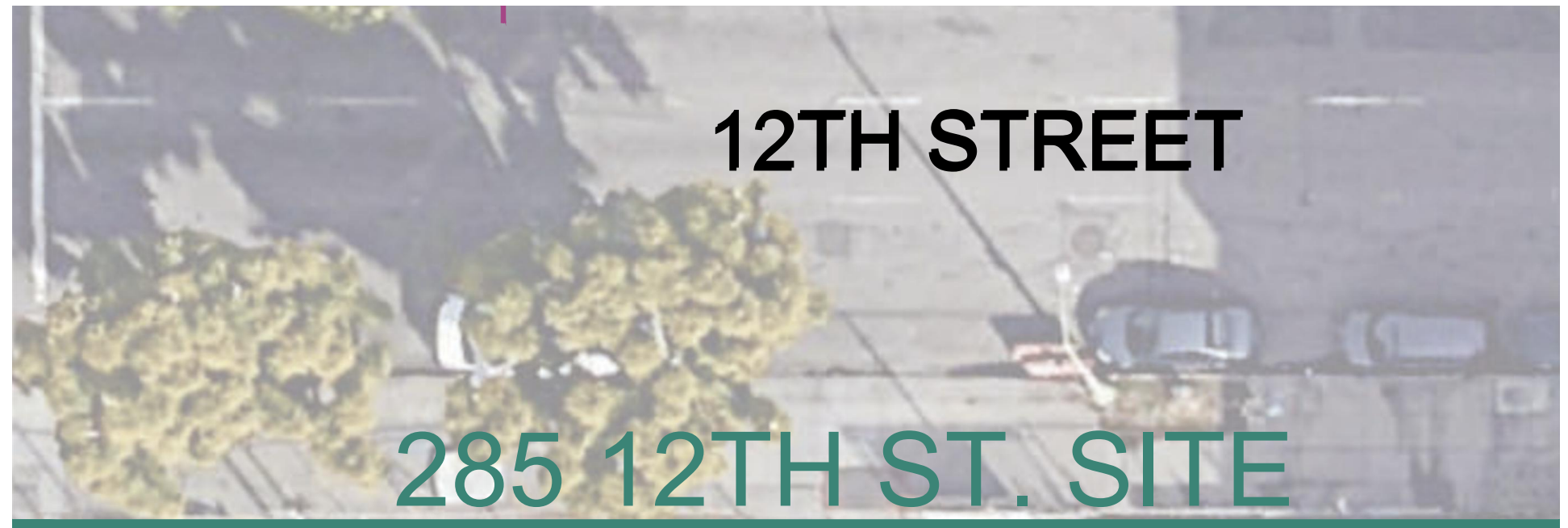
-  285 12TH STREET SITE BOUNDARY
-  GROUNDWATER MONITORING WELL LOCATION
-  SOIL STEP OUT SAMPLE LOCATION
- RB-2**  APPROXIMATE BORING LOCATION (BY ROUX)



Title:		
<b>STEP-OUT BORING LOCATIONS</b>		
285 & 201 12TH STREET OAKLAND, CALIFORNIA		
Prepared for EAST BAY ASIAN LOCAL DEVELOPMENT CORPORATION		
Compiled by: A.B.	Date: 05MAY2020	<b>FIGURE</b>  <b>3</b>
Prepared by: A.B.	Scale: AS SHOWN	
Project Mgr: T.B.	Project: 3374.0003S000	
File: 285 12TH STREET.DWG		

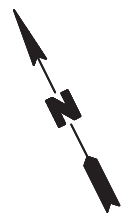






**LEGEND**

- 285 12TH STREET SITE BOUNDARY
- ⊙ GROUNDWATER MONITORING WELL LOCATION
- SOIL STEP OUT SAMPLE LOCATION
- RB-2 APPROXIMATE BORING LOCATION (BY ROUX)
- EXTENT OF LEAD CONTAMINATION



<b>EXTENT OF LEAD CONTAMINATION</b>		
285 & 201 12TH STREET OAKLAND, CALIFORNIA		
Prepared for EAST BAY ASIAN LOCAL DEVELOPMENT CORPORATION		
<b>ROUX</b>	Compiled by: A.B.    Date: 05MAY2020 Prepared by: A.B.    Scale: AS SHOWN Project Mgr: T.B.    Project: 3374.0003S000 File: 285 12TH STREET.DWG	FIGURE  <b>4</b>



- A. Alameda county Public Works Agency (ACPWA) Permits  
W2019-0947, W2019-0948, W2020-0151, and W2020-0152
- B. Boring Logs
- C. Roux Soil Gas Sampling Forms
- D. Initial ESA Analytical Reports
- E. BlaineTech Service Groundwater Well Development Field  
Logs
- F. Supplemental ESA Analytical Reports

**Environmental Site Assessment Report**  
**285 12<sup>th</sup> Street, Oakland, California**

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**APPENDIX A**

Alameda county Public Works Agency (ACPWA) Permits W2019-0947, W2019-0948, W2020-0151, and W2020-0152

# Alameda County Public Works Agency - Water Resources Well Permit



Public Works Agency  
—Alameda County—

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

Application Approved on: 12/27/2019 By jamesy

Permit Numbers: W2019-0947 to W2019-0948  
Permits Valid from 01/02/2020 to 01/03/2020

Application Id: 1576262517005  
Site Location: 285 12th St, Oakland, CA 94607, USA  
Project Start Date: 01/02/2020  
Assigned Inspector: Contact Sam Brathwaite at (925) 570-7609 or sbrathwaite@groundzonees.com

City of Project Site:Oakland

Completion Date:01/03/2020

Applicant: Roux Associates - Taylor Barrett  
555 12th Street, 250, Oakland, CA 94703  
Phone: 530-859-0873  
Property Owner: Roth Capri  
1825 San Pablo Avenue, Suite 200, Oaklandq, CA 94612  
Phone: 510-606-1799  
Client: \*\* same as Property Owner \*\*  
Contact: Taylor Barrett  
Phone: 530-859-0873  
Cell: --

Receipt Number: WR2019-0598 Total Due: \$530.00  
Payer Name : Taylor Barrett Total Amount Paid: \$530.00  
Paid By: VISA PAID IN FULL

## Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 5 Boreholes  
Driller: Penecore Drilling - Lic #: 906899 - Method: DP

Work Total: \$265.00

### Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2019-0947	12/27/2019	04/01/2020	5	2.25 in.	32.00 ft

### Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned.
5. The following conditions are required for permit approval at an LOP or SCP site for geotechnical or environmental

## Alameda County Public Works Agency - Water Resources Well Permit

investigations at open or closed sites: The consultant is to provide the report by email to Alameda County Public Works Agency (ACPWA) with an acknowledgement statement and professional stamp (engineering or geologist) within 60 days from the completion of work. Future permits may be at risk of delay should reports not be provided promptly.

6. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

7. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

8. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

### 9. NOTE:

Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

10. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

11. Permit is only approved for soil and water investigations only. No Temp soil vapor points or wells are permitted under this permit.

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Borehole(s) for Investigation-Vapor Sampling 24 to 48 hours only - 5 Boreholes

Driller: Penecore Drilling - Lic #: 906899 - Method: DP

**Work Total: \$265.00**

### Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2019-0948	12/27/2019	04/01/2020	5	1.00 in.	15.00 ft

### Specific Work Permit Conditions

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

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

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground

## Alameda County Public Works Agency - Water Resources Well Permit

Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned.

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

5. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

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

7. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

8. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

### 9. NOTE:

Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

10. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Temp Vapor wells shall not be converted to monitoring Vapor wells, without a seperate permit application process.

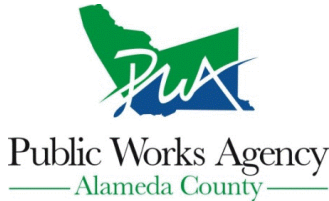
11. Vapor monitoring wells constructed with tubing shall be decommissioned by complete removal of tubing, grout seal, and fill material of sand or bentonite. Fill material may be removed by hand auger if material can be removed completely or by overdrilling the borehole to total depth.

Vapor monitoring wells constructed with pvc pipe less than 2" shall be overdrilled to total depth.

Vapor monitoring wells constructed with 2" pvc pipe or larger may be grouted by tremie pipe (any depth) or pressure grouted (less than 30', 25 psi for 5 min).

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# Alameda County Public Works Agency - Water Resources Well Permit



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

Application Approved on: 03/05/2020 By jamesy

Permit Numbers: W2020-0151 to W2020-0152  
Permits Valid from 03/12/2020 to 03/13/2020

Application Id: 1583351942145  
Site Location: 285 12th St, Oakland, CA 94607, USA  
Project Start Date: 03/12/2020  
Assigned Inspector: Contact Sam Brathwaite at (925) 570-7609 or sbrathwaite@groundzonees.com

City of Project Site:Oakland

Completion Date:03/13/2020

Applicant: Roux Associates, Inc. - Emily Siegel  
555 12th St, Ste 250, Oakland, CA 94607  
Property Owner: Capri Roth  
1825 San Pablo Ave, Ste 200, Oakland, CA 94512  
Client: \*\* same as Property Owner \*\*

Phone: 978-460-2950

Phone: --

Receipt Number: WR2020-0095 Total Due: \$662.00  
Payer Name : Emily M Siegel Total Amount Paid: \$662.00  
Paid By: VISA PAID IN FULL

## Works Requesting Permits:

Borehole(s) for Geo Probes-Sampling 24 to 48 hours Max (soil and water only) - 24 Boreholes  
Driller: Penecore - Lic #: 906899 - Method: DP

Work Total: \$265.00

### Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2020-0151	03/05/2020	06/10/2020	24	2.25 in.	4.00 ft

### Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. The following conditions are required for permit approval at an LOP or SCP site for geotechnical or environmental investigations at open or closed sites: The consultant is to provide the report by email to Alameda County Public Works Agency (ACPWA) with an acknowledgement statement and professional stamp (engineering or geologist) within 60 days from the completion of work. Future permits may be at risk of delay should reports not be provided promptly.
5. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

## Alameda County Public Works Agency - Water Resources Well Permit

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

7. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

8. NOTE:

Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

9. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained. Provide copies of all approved permits obtained to County inspector prior to starting drilling.

10. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

---

Well Construction-Monitoring-Monitoring - 1 Wells

Driller: Penecore - Lic #: 906899 - Method: hstem

**Work Total: \$397.00**

**Specifications**

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2020-0152	03/05/2020	06/10/2020	MW-1	8.00 in.	2.00 in.	23.00 ft	35.00 ft

**Specific Work Permit Conditions**

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

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

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits

## Alameda County Public Works Agency - Water Resources Well Permit

and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned.

4. Drillers shall submit Well Completion Reports (WCRs) to the Department of Water Resources (DWR) using the Online System of Well Completion Reports (OSWCR) within 30 days from the completion of drilling work at [https://civicnet.resources.ca.gov/DWR\\_WELLS/](https://civicnet.resources.ca.gov/DWR_WELLS/)

After the Well Completion Report (WCR) through the State has been filed, please send the filed copy /copies of WCR reports (PDF copy only) to Alameda County Public Works Agency. These WCRs report copy/copies filed shall be received within the same 30 day requirement to the State and to the County. The WCRs PDF's may be emailed as an attachment to wells@acpwa.org. Only then will your permit be deemed closed.

A One hundred dollars (\$100.00) Fine for each month the WCR are due will be applied per permit or until \$500.00 fine has been reached, then an enforcement action will take place.

5. Applicant shall submit the copies of the approved encroachment permit to this office within 10 days.

6. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

8. Minimum surface seal thickness is two inches of cement grout placed by tremie.

9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

11. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

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Boring Logs



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# SOIL BORING LOG

WELL NO. <b>RB-01</b>	NORTHING <b>Not Measured</b>	EASTING <b>Not Measured</b>
PROJECT NO./NAME <b>3374.0003S000 / EBALDC</b>		LOCATION <b>285 12th Street</b>
APPROVED BY <b>J. Graber</b>	LOGGED BY <b>T. Barrett</b>	<b>Oakland, California</b>
DRILLING CONTRACTOR/DRILLER <b>Penecore (C57#906899)</b>		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE <b>2.25 inches</b>	BOREHOLE DIAMETER <b>2.25 inches</b>	DRILLING EQUIPMENT/METHOD <b>Direct Push</b>
LAND SURFACE ELEVATION <b>Not Measured</b>	DEPTH TO WATER <b>26.41 (Feet bgs)</b>	BACKFILL <b>Neat Cement Grout</b>
		SAMPLING METHOD <b>2" Macro-Core</b>
		START-FINISH DATE <b>1/3/20</b>

Depth, feet	Graphic Log	Visual Description	Sample ID; Time	PID Values (ppm)	REMARKS
		<b>SAND with Silt and Gravel (SW-SM):</b> Brownish gray, loose; moist; fine sand; well-graded; pieces of concrete and asphalt; (20, 40, 40) [Fill].	RB-1-0.0; 07:45	0.1	(X, X, X) corresponds to (% Fines, % Sand, % Gravel)
		<b>Silty SAND (SM):</b> Dark brown; loose; moist; very fine to fine sand; poorly graded; (50, 50, 0).			
		At 3 feet bgs: Light yellowish brown.	RB-1-3.0; 07:50	0.3	
5		<b>Silty SAND (SM):</b> Light yellow-brown; very dense; moist; subrounded, fine sand; poorly graded; (25, 75, 0); orange staining between 5 and 11.5 feet bgs.	RB-1-5.0; 08:32	0.2	
10		At 10 feet bgs: Very fine sand; (35, 65, 0).	RB-1-10.0; 08:40	0.1	
		<b>Sandy SILT (ML):</b> Medium to light yellow-brown; very dense; moist; subrounded, very fine sand; trace clay; poorly graded; (60, 40, 0).			
		At 14 feet bgs: Orange staining.			
15					

BORING/FEET 285 12TH ST.GPJ ROUX.GDT 2/12/20



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# SOIL BORING LOG

WELL NO. <b>RB-01</b>	NORTHING <b>Not Measured</b>	EASTING <b>Not Measured</b>
PROJECT NO./NAME <b>3374.0003S000 / EBALDC</b>		LOCATION <b>285 12th Street</b>
APPROVED BY <b>J. Graber</b>	LOGGED BY <b>T. Barrett</b>	<b>Oakland, California</b>

Depth, feet	Graphic Log	Visual Description (continued)	Sample ID; Time	PID Values (ppm)	REMARKS
		<b>Silty SAND (SM):</b> Light brown; dense; moist; subrounded, fine to very fine sand; poorly graded; (25, 75, 0).	RB-1-15.0; 08:55	0.1	
		At 16 feet bgs: Very dense; trace clay.			
		At 18 feet bgs: No clay; (40,60,0).			
20		At 20 feet bgs: Loose; little silt (25 75, 0)	RB-1-20.0; 09:00	0.3	20
		At 21.5 feet bgs: Wet.			
25		At 24.5 feet bgs: Orange staining.		0.4	25
		At 26 feet bgs: Purple/red staining.	RB-1-GW; 12:12	0.3	
		At 27.5 feet bgs: Saturated.		0.3	
30					30
					Bottom of boring at 32 feet bgs.

▽  
FIRST  
ENCOUNTERED  
GROUNDWATER  
LEVEL 1/3/2020

▽  
STATIC  
GROUNDWATER  
LEVEL 1/3/2020

BORING/FEET 285 12TH ST.GPJ ROUX.GDT 2/12/20



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# SOIL BORING LOG

WELL NO. <b>RB-02</b>	NORTHING <b>Not Measured</b>	EASTING <b>Not Measured</b>
PROJECT NO./NAME <b>3374.0003S000 / EBALDC</b>		LOCATION <b>285 12th Street</b>
APPROVED BY <b>J. Graber</b>	LOGGED BY <b>T. Barrett</b>	<b>Oakland, California</b>
DRILLING CONTRACTOR/DRILLER <b>Penecore (C57#906899)</b>		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE <b>2.25 inches</b>	BOREHOLE DIAMETER <b>2.25 inches</b>	DRILLING EQUIPMENT/METHOD <b>Direct Push</b>
LAND SURFACE ELEVATION <b>Not Measured</b>	DEPTH TO WATER <b>26.94 (Feet bgs)</b>	SAMPLING METHOD <b>2" Macro-Core</b>
		START-FINISH DATE <b>1/3/20</b>
		BACKFILL <b>Neat Cement Grout</b>

Depth, feet	Graphic Log	Visual Description	Sample ID; Time	PID Values (ppm)	REMARKS
		<b>SAND with Silt and Gravel (SW-SM):</b> Medium light brown; loose; moist; fine sand to angular cobbles; well-graded; (20, 40, 40) [Fill].	RB-2-0.0; 08:45	3.1	(X, X, X) corresponds to (% Fines, % Sand, % Gravel)
		<b>Silty SAND (SM):</b> Medium reddish brown; loose; moist; very fine sand; poorly graded; (40, 60, 0).	RB-2-3.0; 09:00	0.2	
5			RB-2-5.0; 09:25	0.3	
		At 6 feet bgs: Dark brown; yellow/red stain.			
		At 6.5 feet bgs: dense; trace clay (50, 50, 0).			
		At 8 feet bgs: Light yellow-brown; no clay (25, 75, 0).			
		At 9 feet bgs: Red stain.			
10		At 10 feet bgs: Medium dense.	RB-2-10.0; 09:40	0.1	
		<b>Sandy SILT (ML):</b> Light yellow-brown; medium dense; moist; very fine sand; poorly graded; (65, 35, 0).			
		At 12.5 feet bgs: Red staining.			
		<b>Clayey SILT with Sand (ML):</b> Medium yellow-brown; stiff; moist; very fine sand; moderate plasticity; (75, 25, 0).			
15					

BORING/FEET 285 12TH ST.GPJ ROUX.GDT 2/12/20



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# SOIL BORING LOG

WELL NO. <b>RB-02</b>	NORTHING <b>Not Measured</b>	EASTING <b>Not Measured</b>
PROJECT NO./NAME <b>3374.0003S000 / EBALDC</b>		LOCATION <b>285 12th Street</b>
APPROVED BY <b>J. Graber</b>	LOGGED BY <b>T. Barrett</b>	<b>Oakland, California</b>

Depth, feet	Graphic Log	Visual Description (continued)	Sample ID; Time	PID Values (ppm)	REMARKS
		<b>Clayey SILT with Sand (ML):</b> Medium yellow-brown; stiff; moist; very fine sand; moderate plasticity; (75, 25, 0). <i>(continued)</i> At 15.5 feet bgs: Less clay, low plasticity (65, 35, 0).	RB-2-15.0; 09:55	0.5	
		<b>Sandy SILT (ML):</b> Medium yellow-brown; very stiff; moist; very fine sand; trace clay; non-plastic; (60, 40, 0).			
20		<b>Silty SAND (SM):</b> Medium yellow-brown; dense; moist; very fine to fine sand; poorly graded; (60, 40, 0).  At 21.5 feet bgs: Wet; less silt (25,75,0); fine sand.  At 23 feet bgs: Soft.  At 24 feet bgs: Saturated.	RB-2-20.0; 10:10	0.3	20
	▽ FIRST ENCOUNTERED GROUNDWATER LEVEL 1/3/2020				
25		<b>At 26 feet bgs:</b> More silt (35, 65, 0); very fine sand.  <b>At 28 feet bgs:</b> Less silt (25, 75, 0).		0.4	25
	▽ STATIC GROUNDWATER LEVEL 1/3/2020		RB-02-GW; 12:28	0.2	
30				0.3	Bottom of boring at 30 feet bgs. 30

BORING/FEET 285 12TH ST.GPJ ROUX.GDT 2/12/20



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# SOIL BORING LOG

WELL NO. <b>RB-03</b>	NORTHING <b>Not Measured</b>	EASTING <b>Not Measured</b>
PROJECT NO./NAME <b>3374.0003S000 / EBALDC</b>		LOCATION <b>285 12th Street</b>
APPROVED BY <b>J. Graber</b>	LOGGED BY <b>T. Barrett</b>	<b>Oakland, California</b>
DRILLING CONTRACTOR/DRILLER <b>Penecore (C57#906899)</b>		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE <b>2.25 inches</b>	BOREHOLE DIAMETER <b>2.25 inches</b>	DRILLING EQUIPMENT/METHOD <b>Direct Push</b>
LAND SURFACE ELEVATION <b>Not Measured</b>	DEPTH TO WATER <b>26.62 (Feet bgs)</b>	BACKFILL <b>Neat Cement Grout</b>
		SAMPLING METHOD <b>2" Macro-Core</b>
		START-FINISH DATE <b>1/3/20</b>

Depth, feet	Graphic Log	Visual Description	Sample ID; Time	PID Values (ppm)	REMARKS
		<b>SAND with Silt and Gravel (SW-SM):</b> Medium light brown; loose; moist; fine sand to angular cobbles; well-graded (20, 40, 40) [Fill].	RB-3-0.0; 10:12	0.0	(X, X, X) corresponds to (% Fines, % Sand, % Gravel)
		<b>Silty SAND (SM):</b> Medium reddish brown; loose; moist; very fine sand; poorly graded; (40, 60, 0).	RB-3-3.0; 10:14	0.4	
5		At 5.5 feet bgs: Dark brown; dense; some clay; yellow-red stain (50, 50, 0).	RB-3-5.0; 11:15	0.3	
10		<b>Silty SAND (SM):</b> Medium yellow-brown, very dense; moist; fine sand; (25, 75, 0). At 10.5 feet bgs: Dense; very fine sand.	RB-3-10.0; 11:20	0.0	
		<b>Sandy SILT (SM):</b> Medium yellow-brown; very stiff; moist; very fine sand; non plastic; (55, 45, 0).			
15					

BORING/FEET 285 12TH ST.GPJ ROUX.GDT 2/12/20



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# SOIL BORING LOG

WELL NO. <b>RB-03</b>	NORTHING <b>Not Measured</b>	EASTING <b>Not Measured</b>
PROJECT NO./NAME <b>3374.0003S000 / EBALDC</b>		LOCATION <b>285 12th Street</b>
APPROVED BY <b>J. Graber</b>	LOGGED BY <b>T. Barrett</b>	<b>Oakland, California</b>

Depth, feet	Graphic Log	Visual Description (continued)	Sample ID; Time	PID Values (ppm)	REMARKS
		<b>Sandy SILT (SM):</b> Medium yellow-brown; very stiff; moist; very fine sand; non plastic; (55, 45, 0). <i>(continued)</i>	RB-3-15.0; 11:35	0.3	
		At 16 feet bgs: Low plasticity; some clay (70, 30, 0).			
		At 17 feet bgs: Sandy SILT (55, 45, 0).			
		<b>Silty SAND (SM):</b> Medium yellow-brown; medium dense; moist; fine to very fine sand; poorly graded; (25, 75, 0).			
20			RB-3-20.0; 11:55	0.5	20
		At 21.5 feet bgs: Red staining.			
		At 22.5 feet bgs: Wet.			
		At 24 feet bgs: Saturated.			
25				0.3	25
			RB-3-GW; 12:38	0.3	
				0.3	
30				0.4	Bottom of boring at 30 feet bgs. 30

▽  
FIRST  
ENCOUNTERED  
GROUNDWATER  
LEVEL

▼  
STATIC  
GROUNDWATER  
LEVEL

BORING/FEET 285 12TH ST.GPJ ROUX.GDT 2/12/20



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# SOIL BORING LOG

WELL NO. <b>RB-04</b>	NORTHING <b>Not Measured</b>	EASTING <b>Not Measured</b>
PROJECT NO./NAME <b>3374.0003S000 / EBALDC</b>		LOCATION <b>285 12th Street</b>
APPROVED BY <b>J. Graber</b>	LOGGED BY <b>T. Barrett</b>	<b>Oakland, California</b>
DRILLING CONTRACTOR/DRILLER <b>Penecore (C57#906899)</b>		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE <b>2.25 inches</b>	BOREHOLE DIAMETER <b>2.25 inches</b>	DRILLING EQUIPMENT/METHOD <b>Direct Push</b>
LAND SURFACE ELEVATION <b>Not Measured</b>	DEPTH TO WATER <b>Not Encountered</b>	SAMPLING METHOD <b>2" Macro-Core</b>
		START-FINISH DATE <b>1/2/20</b>
		BACKFILL <b>Neat Cement Grout</b>

Depth, feet	Graphic Log	Visual Description	Sample ID; Time	PID Values (ppm)	REMARKS
		<b>SAND with Silt and Gravel (SW-SM):</b> Brownish gray; loose; moist; fine sand; well graded; pieces of concrete and asphalt; (20, 40, 40) [Fill].	RB-4-0.0; 14:40	0.0	(X, X, X) corresponds to (% Fines, % Sand, % Gravel)
		<b>Silty SAND (SM):</b> Brown; loose; moist; fine sand; poorly graded; (35, 65, 0).			
		At 3 feet bgs: Yellowish brown.	RB-4-3.0; 14:45	0.1	
5		<b>Clayey SAND (SC):</b> Medium to light yellowish brown; dense; moist; very fine sand; poorly-graded; (50, 50, 0); grain size decreases with depth.	RB-4-5.0; 15:00	1.4	
10		<b>SAND (SP):</b> dense; moist; very fine sand; trace fines; poorly graded; (35, 65, 0).	RB-4-10.0; 15:10	0.7	
		<b>Clayey SAND (SC):</b> Medium to light yellowish brown; dense; moist; very fine sand; poorly graded; (50, 50, 0).			
15			RB-4-15.0; 15:20	0.9	Bottom of boring at 15 feet bgs.

BORING/FEET 285 12TH ST.GPJ ROUX.GDT 2/12/20





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# SOIL BORING LOG

WELL NO. <b>RB-05</b>	NORTHING <b>Not Measured</b>	EASTING <b>Not Measured</b>
PROJECT NO./NAME <b>3374.0003S000 / EBALDC</b>		LOCATION <b>285 12th Street</b>
APPROVED BY <b>J. Graber</b>	LOGGED BY <b>T. Barrett</b>	<b>Oakland, California</b>
DRILLING CONTRACTOR/DRILLER <b>Penecore (C57#906899)</b>		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE <b>2.25 inches</b>	BOREHOLE DIAMETER <b>2.25 inches</b>	DRILLING EQUIPMENT/METHOD <b>Direct Push</b>
LAND SURFACE ELEVATION <b>Not Measured</b>	DEPTH TO WATER <b>Not Encountered</b>	SAMPLING METHOD <b>2" Macro-Core</b>
		START-FINISH DATE <b>1/2/20</b>
		BACKFILL <b>Neat Cement Grout</b>

Depth, feet	Graphic Log	Visual Description	Sample ID; Time	PID Values (ppm)	REMARKS
		<b>SAND with Silt and Gravel (SW-SM):</b> Greyish brown to light grayish brown; loose; moist; fine sand to coarse grained gravel; well graded; (20, 40, 40) [Fill].	RB-5-0.0; 15:30	0.5	(X, X, X) corresponds to (% Fines, % Sand, % Gravel)
		<b>SAND (SP):</b> Brown; loose; moist; fine sand; trace fines; poorly graded.			
5		At 4.5 feet bgs: Very dense.	RB-5-3.0; 15:30	0.7	
			RB-5-5.0; 15:50	0.6	
10		At 10 feet bgs: Moist.	RB-5-10.0; 15:55	0.3	
15			RB-5-15.0; 16:05	0.8	Bottom of boring at 15 feet bgs.

BORING/FEET 285 12TH ST.GPJ ROUX.GDT 2/12/20

Roux Soil Gas Sampling Forms

## Soil Vapor Sampling Log

Site: EBALDC/285 12th Street, Oakland, CA	Date: 1/3/20
Sample ID: RB-1-SV-8.0	Samplers: T.Barrett
Summa Canister ID: 1L3844	Sample Manifold ID: 22426

### Shut-In Test

	Time	Vacuum (in Hg)	
Shut-In Start	1407	-24.5	<b>Vacuum must be held for at least 1 minute</b>
Shut-In End	1409	-24.5	

### Pre-Sample Purge and Helium Leak Test

Purging Method:	Purge Canister (6L)
Purging Notes:	N/A

	Time	Purge Can. Vacuum (in Hg)	Flow Rate (mL/min)	Volume Purged (mL)
Purge Start	1528	-7	150	--
1 Purge Volume	1534	-5.5	150	762
3 Purge Volumes	1544	0	150	2286
Minimum Helium Detected in Shroud (% v):		15.9		

### Sample Collection

	Time	Vacuum (in Hg)	Helium in Shroud (%v)	Notes
Sample Start	1548	-27.5	25	
	1551	-15	20.1	
Sample End	1553	-5	17.7	

**Notes:**

Probe installed on 1/2/20 at 0940

## Soil Vapor Sampling Log

Site: EBALDC/285 12th Street, Oakland, CA	Date: 1/3/20
Sample ID: RB-1-SV-15.0	Samplers: T.Barrett
Summa Canister ID: 1L1812	Sample Manifold ID: 22261

### Shut-In Test

	Time	Vacuum (in Hg)	
Shut-In Start	1408	-20	<b>Vacuum must be held for at least 1 minute</b>
Shut-In End	1410	-20	

### Pre-Sample Purge and Helium Leak Test

Purging Method:	Purge Canister (6L)
Purging Notes:	N/A

	Time	Purge Can. Vacuum (in Hg)	Flow Rate (mL/min)	Volume Purged (mL)
Purge Start	1548	-8.5	150	--
1 Purge Volume	1553	-5.5	150	800
3 Purge Volumes	1559	-2	150	2400
Minimum Helium Detected in Shroud (% v):		15.1		

### Sample Collection

	Time	Vacuum (in Hg)	Helium in Shroud (%v)	Notes
Sample Start	1600	-30	24.2	
	1603	-24	23.2	
	1604	-14	22	
	1605	-10	21.5	
Sample End	1607	-5	21	

**Notes:**

Probe installed on 1/2/20 at 0930

## Soil Vapor Sampling Log

Site: EBALDC/285 12th Street, Oakland, CA	Date: 1/3/20
Sample ID: RB-2-SV-8.0	Samplers: E.Siegel
Summa Canister ID: 1L1811	Sample Manifold ID: 24593

### Shut-In Test

	Time	Vacuum (in Hg)	
Shut-In Start	1328	-23	<b>Vacuum must be held for at least 1 minute</b>
Shut-In End	1330	-23.5	

### Pre-Sample Purge and Helium Leak Test

Purging Method:	Purge Canister (6L)
Purging Notes:	N/A

	Time	Purge Can. Vacuum (in Hg)	Flow Rate (mL/min)	Volume Purged (mL)
Purge Start	1356	-23.5	150	--
1 Purge Volume	1401	-15.5	150	762
3 Purge Volumes	1724	-5	150	2286
Minimum Helium Detected in Shroud (% v):		14.6		

### Sample Collection

	Time	Vacuum (in Hg)	Helium in Shroud (%v)	Notes
Sample Start	1419	-30	24.5	
	1422	-19	16.7	Helium added
Sample End	1425	-5	20.8	

**Notes:**

Probe installed on 1/2/20 at 1105

## Soil Vapor Sampling Log

Site: EBALDC/285 12th Street, Oakland, CA	Date: 1/3/20
Sample ID: RB-2-SV-15.0	Samplers: T.Barrett
Summa Canister ID: 1L2839	Sample Manifold ID: 20419

### Shut-In Test

	Time	Vacuum (in Hg)	
Shut-In Start	1334	-19	<b>Vacuum must be held for at least 1 minute</b>
Shut-In End	1337	-19	

### Pre-Sample Purge and Helium Leak Test

Purging Method:	Purge Canister (6L)
Purging Notes:	N/A

	Time	Purge Can. Vacuum (in Hg)	Flow Rate (mL/min)	Volume Purged (mL)
Purge Start	1423	-20.2	150	--
1 Purge Volume	1428	-10.4	150	800
3 Purge Volumes	1439	-3.4	150	2400
Minimum Helium Detected in Shroud (% v):		22.3		

### Sample Collection

	Time	Vacuum (in Hg)	Helium in Shroud (%v)	Notes
Sample Start	1442	-28.5	27.1	
	1445	-21.5	25.3	
	1450	-17	22.4	
	1501	-8.5	20.1	
Sample End	1509	-5	19.5	

**Notes:**

Probe installed on 1/2/20 at 1050

## Soil Vapor Sampling Log

Site: EBALDC/285 12th Street, Oakland, CA	Date: 1/3/20
Sample ID: RB-3-SV-8.0	Samplers: E.Siegel
Summa Canister ID: 1L2969	Sample Manifold ID: 30461

### Shut-In Test

	Time	Vacuum (in Hg)	
Shut-In Start	1148	-20	<b>Vacuum must be held for at least 1 minute</b>
Shut-In End	1154	-20.5	

### Pre-Sample Purge and Helium Leak Test

Purging Method:	Purge Canister (6L)
Purging Notes:	N/A

	Time	Purge Can. Vacuum (in Hg)	Flow Rate (mL/min)	Volume Purged (mL)
Purge Start	1215	-26.5	150	--
1 Purge Volume	1220	-24.5	150	762
3 Purge Volumes	1230	-18	150	2286
Minimum Helium Detected in Shroud (% v):		15.9		

### Sample Collection

	Time	Vacuum (in Hg)	Helium in Shroud (%v)	Notes
Sample Start	1237	-28	25	
	1240	-17.5	24	
	1243	-9.5	23.5	
Sample End	1245	-5	21.4	

**Notes:**

Probe installed on 1/2/20 at 1330

## Soil Vapor Sampling Log

Site: EBALDC/285 12th Street, Oakland, CA	Date: 1/3/20
Sample ID: RB-3-SV-15.0	Samplers: E.Siegel
Summa Canister ID: 1L1352	Sample Manifold ID: 30574

### Shut-In Test

	Time	Vacuum (in Hg)	
Shut-In Start	1148	-28.5	<b>Vacuum must be held for at least 1 minute</b>
Shut-In End	1154	-28.5	

### Pre-Sample Purge and Helium Leak Test

Purging Method:	Purge Canister (6L)
Purging Notes:	N/A

	Time	Purge Can. Vacuum (in Hg)	Flow Rate (mL/min)	Volume Purged (mL)
Purge Start	1236	-18	150	--
1 Purge Volume	1241	-16	150	800
3 Purge Volumes	1252	-11.5	150	2400
Minimum Helium Detected in Shroud (% v):		20.4		

### Sample Collection

	Time	Vacuum (in Hg)	Helium in Shroud (%v)	Notes
Sample Start	1256	-26.5	26.3	
	1259	-18.5	25.6	
	1302	-11.5	17.5	
Sample End	1306	-5	15.2	

**Notes:**

Probe installed on 1/2/20 at 1320



## Soil Vapor Sampling Log

Site: EBALDC/285 12th Street, Oakland, CA	Date: 1/2/20
Sample ID: RB-4-SV-8.0	Samplers: E.Siegel
Summa Canister ID: 1L2415	Sample Manifold ID: 24588

### Shut-In Test

	Time	Vacuum (in Hg)	
Shut-In Start	1310	-23.5	<b>Vacuum must be held for at least 1 minute</b>
Shut-In End	1315	-23.5	

### Pre-Sample Purge and Helium Leak Test

Purging Method:	Syringe
Purging Notes:	N/A

	Time	Purge Can. Vacuum (in Hg)	Flow Rate (mL/min)	Volume Purged (mL)
Purge Start	1331	-27.5	150	--
1 Purge Volume	1336	-25		762
3 Purge Volumes	1346	-17	150	2286
Minimum Helium Detected in Shroud (% v):		41.4		

### Sample Collection

	Time	Vacuum (in Hg)	Helium in Shroud (%v)	Notes
Sample Start	1400	-28.5	27.1	
	1403	-11	25.7	
Sample End	1405	-5	25.4	

**Notes:**

Probe installed on 1/2/20 at 1018

## Soil Vapor Sampling Log

Site: EBALDC/285 12th Street, Oakland, CA	Date: 1/3/20
Sample ID: RB-5-SV-8.0	Samplers: T.Barrett
Summa Canister ID: 1L2709	Sample Manifold ID: 24582

### Shut-In Test

	Time	Vacuum (in Hg)	
Shut-In Start	1105	-26	<b>Vacuum must be held for at least 1 minute</b>
Shut-In End	1106	-24	

### Pre-Sample Purge and Helium Leak Test

Purging Method:	Syring (60mL)
Purging Notes:	N/A

	Time	Purge Can. Vacuum (in Hg)	Flow Rate (mL/min)	Volume Purged (mL)
Purge Start	1108	--	150	--
1 Purge Volume	1113	--	150	762
3 Purge Volumes	1129	--	150	2286
Minimum Helium Detected in Shroud (% v):		17.5		

### Sample Collection

	Time	Vacuum (in Hg)	Helium in Shroud (%v)	Notes
Sample Start	1132	-30	31	
Sample End	1133	0	31	

**Notes:**

Probe installed on 1/2/20 at 1203

Initial ESA Analytical Reports

1/11/2020  
Taylor Barrett  
Roux Associates  
555 12th St.  
Suite 250  
Oakland CA 94607

Project Name: EBALDC- 285 12th Street  
Project #:  
Workorder #: 2001059B

Dear Taylor Barrett

The following report includes the data for the above referenced project for sample(s) received on 1/6/2020 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Sarah Westerman at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Sarah Westerman  
Project Manager

**WORK ORDER #: 2001059B**

Work Order Summary

**CLIENT:** Taylor Barrett  
 Roux Associates  
 555 12th St.  
 Suite 250  
 Oakland, CA 94607

**BILL TO:** Accounts Payable  
 Roux Associates  
 209 Shafter Street  
 Islandia, NY 11749

**PHONE:** 415-967-6015

**P.O. #** 3374.0003S000

**FAX:**

**PROJECT #** EBALDC- 285 12th Street

**DATE RECEIVED:** 01/06/2020

**CONTACT:** Sarah Westerman

**DATE COMPLETED:** 01/11/2020

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	RB-1-SV-8.0	Modified ASTM D-1946	5.1 "Hg	15.8 psi
02A	RB-1-SV-15.0	Modified ASTM D-1946	3.1 "Hg	16.2 psi
03A	RB-2-SV-8.0	Modified ASTM D-1946	2.2 "Hg	15.8 psi
04A	RB-2-SV-15.0	Modified ASTM D-1946	4.5 "Hg	15.9 psi
05A	RB-3-SV-8.0	Modified ASTM D-1946	2.8 "Hg	16.2 psi
06A	RB-3-SV-15.0	Modified ASTM D-1946	3.7 "Hg	16 psi
07A	RB-4-SV-8.0	Modified ASTM D-1946	5.5 "Hg	15 psi
08A	RB-5-SV-8.0	Modified ASTM D-1946	0.7 psi	15.9 psi
09A	Lab Blank	Modified ASTM D-1946	NA	NA
09B	Lab Blank	Modified ASTM D-1946	NA	NA
10A	LCS	Modified ASTM D-1946	NA	NA
10AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY:



Technical Director

DATE: 01/11/20

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.

Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

**LABORATORY NARRATIVE**  
**Modified ASTM D-1946**  
**Roux Associates**  
**Workorder# 2001059B**

Eight 1 Liter Summa Canister samples were received on January 06, 2020. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

<i>Requirement</i>	<i>ASTM D-1946</i>	<i>ATL Modifications</i>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A minimum of 5-point calibration curve is performed. Quantitation is based on average Response Factor.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

**Receiving Notes**

The Chain of Custody (COC) information for samples RB-1-SV-8.0, RB-1-SV-15.0, RB-2-SV-8.0, and RB-2-SV-15.0 did not match the entries on the sample tags with regard to sample identification.

---

Therefore the information on the COC was used to process and report the samples.

The date of sample collection noted on the Chain of Custody for samples RB-1-SV-8.0, RB-1-SV-15.0, RB-2-SV-8.0, RB-2-SV-15.0, RB-3-SV-8.0, RB-3-SV-15.0, RB-4-SV-8.0, and RB-5-SV-8.0 appeared to be inaccurate by a factor of one year.

Despite the use of flow controllers for sample collection, the final canister vacuum for sample RB-5-SV-8.0 was measured at ambient pressure at the laboratory.

### **Analytical Notes**

There were no analytical discrepancies.

### **Definition of Data Qualifying Flags**

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds  
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946**

**Client Sample ID: RB-1-SV-8.0**

**Lab ID#: 2001059B-01A**

<b>Compound</b>	<b>Rpt. Limit (%)</b>	<b>Amount (%)</b>
Oxygen	0.25	14
Methane	0.00025	0.0017

**Client Sample ID: RB-1-SV-15.0**

**Lab ID#: 2001059B-02A**

<b>Compound</b>	<b>Rpt. Limit (%)</b>	<b>Amount (%)</b>
Oxygen	0.23	10
Methane	0.00023	0.00095

**Client Sample ID: RB-2-SV-8.0**

**Lab ID#: 2001059B-03A**

<b>Compound</b>	<b>Rpt. Limit (%)</b>	<b>Amount (%)</b>
Oxygen	0.22	15

**Client Sample ID: RB-2-SV-15.0**

**Lab ID#: 2001059B-04A**

<b>Compound</b>	<b>Rpt. Limit (%)</b>	<b>Amount (%)</b>
Oxygen	0.24	12
Methane	0.00024	0.0027

**Client Sample ID: RB-3-SV-8.0**

**Lab ID#: 2001059B-05A**

<b>Compound</b>	<b>Rpt. Limit (%)</b>	<b>Amount (%)</b>
Oxygen	0.23	18

**Client Sample ID: RB-3-SV-15.0**

**Lab ID#: 2001059B-06A**



**Summary of Detected Compounds  
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946**

**Client Sample ID: RB-3-SV-15.0**

**Lab ID#: 2001059B-06A**

<b>Compound</b>	<b>Rpt. Limit (%)</b>	<b>Amount (%)</b>
Oxygen	0.24	15
Methane	0.00024	0.00068

**Client Sample ID: RB-4-SV-8.0**

**Lab ID#: 2001059B-07A**

<b>Compound</b>	<b>Rpt. Limit (%)</b>	<b>Amount (%)</b>
Oxygen	0.25	15
Methane	0.00025	0.0015

**Client Sample ID: RB-5-SV-8.0**

**Lab ID#: 2001059B-08A**

<b>Compound</b>	<b>Rpt. Limit (%)</b>	<b>Amount (%)</b>
Oxygen	0.20	21
Methane	0.00020	0.00024



Air Toxics

Client Sample ID: RB-1-SV-8.0

Lab ID#: 2001059B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10010805	Date of Collection:	1/3/20 3:53:00 PM
Dil. Factor:	2.50	Date of Analysis:	1/8/20 09:36 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	14
Methane	0.00025	0.0017
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Air Toxics

Client Sample ID: RB-1-SV-15.0

Lab ID#: 2001059B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10010806	Date of Collection:	1/3/20 4:07:00 PM
Dil. Factor:	2.34	Date of Analysis:	1/8/20 10:01 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	10
Methane	0.00023	0.00095
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Air Toxics

Client Sample ID: RB-2-SV-8.0

Lab ID#: 2001059B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10010807	Date of Collection:	1/3/20 2:25:00 PM
Dil. Factor:	2.24	Date of Analysis:	1/8/20 10:26 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	15
Methane	0.00022	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister



Air Toxics

Client Sample ID: RB-2-SV-15.0

Lab ID#: 2001059B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10010808	Date of Collection:	1/3/20 3:09:00 PM
Dil. Factor:	2.45	Date of Analysis:	1/8/20 10:49 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	12
Methane	0.00024	0.0027
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Air Toxics

Client Sample ID: RB-3-SV-8.0

Lab ID#: 2001059B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10010809	Date of Collection:	1/3/20 12:45:00 PM
Dil. Factor:	2.32	Date of Analysis:	1/8/20 11:17 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	18
Methane	0.00023	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Air Toxics

Client Sample ID: RB-3-SV-15.0

Lab ID#: 2001059B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10010810	Date of Collection:	1/3/20 1:06:00 PM
Dil. Factor:	2.38	Date of Analysis:	1/8/20 11:53 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	15
Methane	0.00024	0.00068
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Air Toxics

Client Sample ID: RB-4-SV-8.0

Lab ID#: 2001059B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10010811	Date of Collection:	1/2/20 2:05:00 PM
Dil. Factor:	2.48	Date of Analysis:	1/8/20 12:20 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	15
Methane	0.00025	0.0015
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister





Air Toxics

Client Sample ID: RB-5-SV-8.0

Lab ID#: 2001059B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10010812	Date of Collection:	1/3/20 11:33:00 AM
Dil. Factor:	1.99	Date of Analysis:	1/8/20 12:46 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	21
Methane	0.00020	0.00024
Helium	0.10	Not Detected

Container Type: 1 Liter Summa Canister



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 2001059B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10010804	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	1/8/20 09:06 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Methane	0.00010	Not Detected

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 2001059B-09B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10010803c	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	1/8/20 08:41 AM

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

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: LCS

Lab ID#: 2001059B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10010802	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	1/8/20 07:59 AM

Compound	%Recovery	Method Limits
Oxygen	96	85-115
Methane	111	85-115
Helium	98	85-115

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: LCSD

Lab ID#: 2001059B-10AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10010820	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/8/20 05:32 PM

Compound	%Recovery	Method Limits
Oxygen	97	85-115
Methane	107	85-115
Helium	98	85-115

Container Type: NA - Not Applicable

1/13/2020  
Taylor Barrett  
Roux Associates  
555 12th St.  
Suite 250  
Oakland CA 94607

Project Name: EBALDC- 285 12th Street  
Project #:  
Workorder #: 2001059A

Dear Taylor Barrett

The following report includes the data for the above referenced project for sample(s) received on 1/6/2020 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Sarah Westerman at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Sarah Westerman  
Project Manager

**WORK ORDER #: 2001059A**

Work Order Summary

<b>CLIENT:</b>	Taylor Barrett Roux Associates 555 12th St. Suite 250 Oakland, CA 94607	<b>BILL TO:</b>	Accounts Payable Roux Associates 209 Shafter Street Islandia, NY 11749
<b>PHONE:</b>	415-967-6015	<b>P.O. #</b>	3374.0003S000
<b>FAX:</b>		<b>PROJECT #</b>	EBALDC- 285 12th Street
<b>DATE RECEIVED:</b>	01/06/2020	<b>CONTACT:</b>	Sarah Westerman
<b>DATE COMPLETED:</b>	01/13/2020		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	RB-1-SV-8.0	TO-15	5.1 "Hg	15.8 psi
02A	RB-1-SV-15.0	TO-15	3.1 "Hg	16.2 psi
03A	RB-2-SV-8.0	TO-15	2.2 "Hg	15.8 psi
04A	RB-2-SV-15.0	TO-15	4.5 "Hg	15.9 psi
05A	RB-3-SV-8.0	TO-15	2.8 "Hg	16.2 psi
06A	RB-3-SV-15.0	TO-15	3.7 "Hg	16 psi
07A	RB-4-SV-8.0	TO-15	5.5 "Hg	15 psi
08A	RB-5-SV-8.0	TO-15	0.7 psi	15.9 psi
09A	Lab Blank	TO-15	NA	NA
09B	Lab Blank	TO-15	NA	NA
10A	CCV	TO-15	NA	NA
10B	CCV	TO-15	NA	NA
11A	LCS	TO-15	NA	NA
11AA	LCSD	TO-15	NA	NA
11B	LCS	TO-15	NA	NA
11BB	LCSD	TO-15	NA	NA

CERTIFIED BY:   
 Technical Director

DATE: 01/13/20

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)  
 Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.

Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.  
 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630  
 (916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

**LABORATORY NARRATIVE**  
**EPA Method TO-15**  
**Roux Associates**  
**Workorder# 2001059A**

Eight 1 Liter Summa Canister samples were received on January 06, 2020. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

**Receiving Notes**

The Chain of Custody (COC) information for samples RB-1-SV-8.0, RB-1-SV-15.0, RB-2-SV-8.0, and RB-2-SV-15.0 did not match the entries on the sample tags with regard to sample identification. Therefore the information on the COC was used to process and report the samples.

The date of sample collection noted on the Chain of Custody for samples RB-1-SV-8.0, RB-1-SV-15.0, RB-2-SV-8.0, RB-2-SV-15.0, RB-3-SV-8.0, RB-3-SV-15.0, RB-4-SV-8.0, and RB-5-SV-8.0 appeared to be inaccurate by a factor of one year.

Despite the use of flow controllers for sample collection, the final canister vacuum for sample RB-5-SV-8.0 was measured at ambient pressure at the laboratory.

**Analytical Notes**

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

**Definition of Data Qualifying Flags**

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-1-SV-8.0	<b>Date/Time Analyzed:</b>	1/7/20 08:26 PM
<b>Lab ID:</b>	2001059A-01A	<b>Dilution Factor:</b>	2.50
<b>Date/Time Collected:</b>	1/3/20 03:53 PM	<b>Instrument/Filename:</b>	msd3.i / 3010720
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	1.0	3.4	6.8	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.57	4.3	8.6	Not Detected
1,1,2-Trichloroethane	79-00-5	0.73	3.4	6.8	Not Detected
1,1-Dichloroethane	75-34-3	0.87	2.5	5.0	Not Detected
1,1-Dichloroethene	75-35-4	1.1	2.5	5.0	Not Detected
1,2,4-Trichlorobenzene	120-82-1	1.3	12	37	Not Detected
1,2,4-Trimethylbenzene	95-63-6	1.0	3.1	6.1	3.9 J
1,2-Dibromoethane (EDB)	106-93-4	0.65	4.8	9.6	Not Detected
1,2-Dichlorobenzene	95-50-1	0.65	3.8	7.5	Not Detected
1,2-Dichloroethane	107-06-2	0.48	2.5	5.0	1.2 J
1,2-Dichloropropane	78-87-5	1.1	2.9	5.8	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.79	3.1	6.1	0.96 J
1,3-Butadiene	106-99-0	0.62	1.4	2.8	16
1,3-Dichlorobenzene	541-73-1	0.33	3.8	7.5	32
1,4-Dichlorobenzene	106-46-7	0.67	3.8	7.5	Not Detected
1,4-Dioxane	123-91-1	0.94	5.6	18	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.97	2.9	5.8	57
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.5	4.6	15	16
2-Hexanone	591-78-6	0.49	6.4	20	0.72 J
2-Propanol	67-63-0	1.2	3.8	12	16
3-Chloropropene	107-05-1	2.8	4.9	16	Not Detected
4-Ethyltoluene	622-96-8	0.48	3.1	6.1	2.4 J
4-Methyl-2-pentanone	108-10-1	2.4	2.6	5.1	2.7 J
Acetone	67-64-1	5.3	5.9	30	64

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-1-SV-8.0	<b>Date/Time Analyzed:</b>	1/7/20 08:26 PM
<b>Lab ID:</b>	2001059A-01A	<b>Dilution Factor:</b>	2.50
<b>Date/Time Collected:</b>	1/3/20 03:53 PM	<b>Instrument/Filename:</b>	msd3.i / 3010720
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
alpha-Chlorotoluene	100-44-7	0.64	3.2	6.5	Not Detected
Benzene	71-43-2	0.51	2.0	4.0	15
Bromodichloromethane	75-27-4	0.80	4.2	8.4	1.8 J
Bromoform	75-25-2	0.70	6.5	13	Not Detected
Bromomethane	74-83-9	3.5	6.1	48	Not Detected
Carbon Disulfide	75-15-0	8.2	9.3	16	9.1 J
Carbon Tetrachloride	56-23-5	0.80	3.9	7.9	3.7 J
Chlorobenzene	108-90-7	0.33	2.9	5.8	Not Detected
Chloroethane	75-00-3	2.2	4.1	13	Not Detected
Chloroform	67-66-3	0.92	3.0	6.1	63
Chloromethane	74-87-3	1.9	3.2	26	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.78	2.5	5.0	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.49	2.8	5.7	Not Detected
Cumene	98-82-8	0.56	3.1	6.1	Not Detected
Cyclohexane	110-82-7	0.68	2.2	4.3	54
Dibromochloromethane	124-48-1	0.68	5.3	11	Not Detected
Ethanol	64-17-5	1.9	2.8	9.4	15
Ethyl Benzene	100-41-4	0.65	2.7	5.4	3.3 J
Freon 11	75-69-4	1.2	3.5	7.0	2.3 J
Freon 113	76-13-1	1.5	4.8	9.6	Not Detected
Freon 114	76-14-2	1.3	4.4	8.7	Not Detected
Freon 12	75-71-8	0.60	3.1	6.2	2.2 J
Heptane	142-82-5	0.68	2.6	5.1	14
Hexachlorobutadiene	87-68-3	2.1	17	53	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-1-SV-8.0	<b>Date/Time Analyzed:</b>	1/7/20 08:26 PM
<b>Lab ID:</b>	2001059A-01A	<b>Dilution Factor:</b>	2.50
<b>Date/Time Collected:</b>	1/3/20 03:53 PM	<b>Instrument/Filename:</b>	msd3.i / 3010720
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	110-54-3	1.2	2.2	4.4	100
m,p-Xylene	108-38-3	0.64	2.7	5.4	9.3
Methyl tert-butyl ether	1634-04-4	1.8	5.6	18	Not Detected
Methylene Chloride	75-09-2	0.66	5.4	43	2.1 J
o-Xylene	95-47-6	0.41	2.7	5.4	2.8 J
Propylbenzene	103-65-1	0.54	3.1	6.1	0.70 J
Styrene	100-42-5	0.36	2.7	5.3	0.94 J
Tetrachloroethene	127-18-4	1.2	4.2	8.5	7.1 J
Tetrahydrofuran	109-99-9	0.30	1.8	3.7	Not Detected
Toluene	108-88-3	0.51	2.4	4.7	120
trans-1,2-Dichloroethene	156-60-5	1.1	2.5	5.0	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.28	2.8	5.7	Not Detected
Trichloroethene	79-01-6	0.86	3.4	6.7	Not Detected
Vinyl Chloride	75-01-4	0.54	1.6	3.2	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	100
4-Bromofluorobenzene	460-00-4	70-130	99
Toluene-d8	2037-26-5	70-130	100

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-1-SV-15.0	<b>Date/Time Analyzed:</b>	1/7/20 08:52 PM
<b>Lab ID:</b>	2001059A-02A	<b>Dilution Factor:</b>	2.34
<b>Date/Time Collected:</b>	1/3/20 04:07 PM	<b>Instrument/Filename:</b>	msd3.i / 3010721
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.93	3.2	6.4	1.1 J
1,1,2,2-Tetrachloroethane	79-34-5	0.53	4.0	8.0	Not Detected
1,1,2-Trichloroethane	79-00-5	0.68	3.2	6.4	Not Detected
1,1-Dichloroethane	75-34-3	0.81	2.4	4.7	Not Detected
1,1-Dichloroethene	75-35-4	1.1	2.3	4.6	Not Detected
1,2,4-Trichlorobenzene	120-82-1	1.2	11	35	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.93	2.9	5.8	6.4
1,2-Dibromoethane (EDB)	106-93-4	0.61	4.5	9.0	Not Detected
1,2-Dichlorobenzene	95-50-1	0.60	3.5	7.0	Not Detected
1,2-Dichloroethane	107-06-2	0.44	2.4	4.7	0.79 J
1,2-Dichloropropane	78-87-5	1.0	2.7	5.4	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.74	2.9	5.8	2.0 J
1,3-Butadiene	106-99-0	0.58	1.3	2.6	11
1,3-Dichlorobenzene	541-73-1	0.31	3.5	7.0	67
1,4-Dichlorobenzene	106-46-7	0.62	3.5	7.0	Not Detected
1,4-Dioxane	123-91-1	0.88	5.3	17	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.91	2.7	5.5	8.6
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.4	4.3	14	7.5 J
2-Hexanone	591-78-6	0.46	6.0	19	0.79 J
2-Propanol	67-63-0	1.1	3.6	12	Not Detected
3-Chloropropene	107-05-1	2.6	4.6	15	Not Detected
4-Ethyltoluene	622-96-8	0.44	2.9	5.8	4.4 J
4-Methyl-2-pentanone	108-10-1	2.2	2.4	4.8	10
Acetone	67-64-1	4.9	5.6	28	42

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-1-SV-15.0	<b>Date/Time Analyzed:</b>	1/7/20 08:52 PM
<b>Lab ID:</b>	2001059A-02A	<b>Dilution Factor:</b>	2.34
<b>Date/Time Collected:</b>	1/3/20 04:07 PM	<b>Instrument/Filename:</b>	msd3.i / 3010721
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
alpha-Chlorotoluene	100-44-7	0.60	3.0	6.0	Not Detected
Benzene	71-43-2	0.48	1.9	3.7	10
Bromodichloromethane	75-27-4	0.75	3.9	7.8	Not Detected
Bromoform	75-25-2	0.65	6.0	12	Not Detected
Bromomethane	74-83-9	3.3	5.7	45	Not Detected
Carbon Disulfide	75-15-0	7.7	8.7	14	12 J
Carbon Tetrachloride	56-23-5	0.75	3.7	7.4	Not Detected
Chlorobenzene	108-90-7	0.31	2.7	5.4	Not Detected
Chloroethane	75-00-3	2.1	3.8	12	Not Detected
Chloroform	67-66-3	0.86	2.8	5.7	16
Chloromethane	74-87-3	1.8	3.0	24	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.73	2.3	4.6	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.46	2.6	5.3	Not Detected
Cumene	98-82-8	0.53	2.9	5.8	0.70 J
Cyclohexane	110-82-7	0.64	2.0	4.0	10
Dibromochloromethane	124-48-1	0.64	5.0	10	Not Detected
Ethanol	64-17-5	1.8	2.6	8.8	13
Ethyl Benzene	100-41-4	0.60	2.5	5.1	3.6 J
Freon 11	75-69-4	1.1	3.3	6.6	2.0 J
Freon 113	76-13-1	1.4	4.5	9.0	Not Detected
Freon 114	76-14-2	1.2	4.1	8.2	Not Detected
Freon 12	75-71-8	0.56	2.9	5.8	2.4 J
Heptane	142-82-5	0.63	2.4	4.8	4.8
Hexachlorobutadiene	87-68-3	2.0	16	50	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-1-SV-15.0	<b>Date/Time Analyzed:</b>	1/7/20 08:52 PM
<b>Lab ID:</b>	2001059A-02A	<b>Dilution Factor:</b>	2.34
<b>Date/Time Collected:</b>	1/3/20 04:07 PM	<b>Instrument/Filename:</b>	msd3.i / 3010721
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	110-54-3	1.1	2.1	4.1	27
m,p-Xylene	108-38-3	0.60	2.5	5.1	9.4
Methyl tert-butyl ether	1634-04-4	1.6	5.3	17	Not Detected
Methylene Chloride	75-09-2	0.62	5.1	41	0.75 J
o-Xylene	95-47-6	0.38	2.5	5.1	3.6 J
Propylbenzene	103-65-1	0.51	2.9	5.8	1.1 J
Styrene	100-42-5	0.34	2.5	5.0	14
Tetrachloroethene	127-18-4	1.2	4.0	7.9	1.7 J
Tetrahydrofuran	109-99-9	0.28	1.7	3.4	Not Detected
Toluene	108-88-3	0.48	2.2	4.4	160
trans-1,2-Dichloroethene	156-60-5	0.99	2.3	4.6	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.27	2.6	5.3	Not Detected
Trichloroethene	79-01-6	0.80	3.1	6.3	Not Detected
Vinyl Chloride	75-01-4	0.50	1.5	3.0	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	101
4-Bromofluorobenzene	460-00-4	70-130	99
Toluene-d8	2037-26-5	70-130	100

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-2-SV-8.0	<b>Date/Time Analyzed:</b>	1/7/20 09:19 PM
<b>Lab ID:</b>	2001059A-03A	<b>Dilution Factor:</b>	2.24
<b>Date/Time Collected:</b>	1/3/20 02:25 PM	<b>Instrument/Filename:</b>	msd3.i / 3010722
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.89	3.0	6.1	3.0 J
1,1,2,2-Tetrachloroethane	79-34-5	0.51	3.8	7.7	Not Detected
1,1,2-Trichloroethane	79-00-5	0.65	3.0	6.1	Not Detected
1,1-Dichloroethane	75-34-3	0.78	2.3	4.5	Not Detected
1,1-Dichloroethene	75-35-4	1.0	2.2	4.4	Not Detected
1,2,4-Trichlorobenzene	120-82-1	1.1	10	33	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.89	2.8	5.5	3.8 J
1,2-Dibromoethane (EDB)	106-93-4	0.58	4.3	8.6	Not Detected
1,2-Dichlorobenzene	95-50-1	0.58	3.4	6.7	Not Detected
1,2-Dichloroethane	107-06-2	0.43	2.3	4.5	0.46 J
1,2-Dichloropropane	78-87-5	0.99	2.6	5.2	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.70	2.8	5.5	0.99 J
1,3-Butadiene	106-99-0	0.56	1.2	2.5	5.8
1,3-Dichlorobenzene	541-73-1	0.29	3.4	6.7	34
1,4-Dichlorobenzene	106-46-7	0.60	3.4	6.7	Not Detected
1,4-Dioxane	123-91-1	0.84	5.0	16	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.87	2.6	5.2	38
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.4	4.1	13	21
2-Hexanone	591-78-6	0.44	5.7	18	1.0 J
2-Propanol	67-63-0	1.1	3.4	11	1.9 J
3-Chloropropene	107-05-1	2.5	4.4	14	Not Detected
4-Ethyltoluene	622-96-8	0.43	2.8	5.5	2.2 J
4-Methyl-2-pentanone	108-10-1	2.1	2.3	4.6	2.2 J
Acetone	67-64-1	4.7	5.3	27	76

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-2-SV-8.0	<b>Date/Time Analyzed:</b>	1/7/20 09:19 PM
<b>Lab ID:</b>	2001059A-03A	<b>Dilution Factor:</b>	2.24
<b>Date/Time Collected:</b>	1/3/20 02:25 PM	<b>Instrument/Filename:</b>	msd3.i / 3010722
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
alpha-Chlorotoluene	100-44-7	0.57	2.9	5.8	Not Detected
Benzene	71-43-2	0.46	1.8	3.6	20
Bromodichloromethane	75-27-4	0.72	3.8	7.5	Not Detected
Bromoform	75-25-2	0.63	5.8	12	Not Detected
Bromomethane	74-83-9	3.1	5.4	43	Not Detected
Carbon Disulfide	75-15-0	7.4	8.4	14	17
Carbon Tetrachloride	56-23-5	0.72	3.5	7.0	0.72 J
Chlorobenzene	108-90-7	0.30	2.6	5.2	Not Detected
Chloroethane	75-00-3	2.0	3.7	12	Not Detected
Chloroform	67-66-3	0.82	2.7	5.5	24
Chloromethane	74-87-3	1.7	2.9	23	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.70	2.2	4.4	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.44	2.5	5.1	Not Detected
Cumene	98-82-8	0.51	2.8	5.5	Not Detected
Cyclohexane	110-82-7	0.61	1.9	3.8	11
Dibromochloromethane	124-48-1	0.61	4.8	9.5	Not Detected
Ethanol	64-17-5	1.7	2.5	8.4	13
Ethyl Benzene	100-41-4	0.58	2.4	4.9	6.5
Freon 11	75-69-4	1.0	3.1	6.3	1.6 J
Freon 113	76-13-1	1.4	4.3	8.6	Not Detected
Freon 114	76-14-2	1.1	3.9	7.8	Not Detected
Freon 12	75-71-8	0.54	2.8	5.5	1.9 J
Heptane	142-82-5	0.60	2.3	4.6	30
Hexachlorobutadiene	87-68-3	1.9	15	48	Not Detected



EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-2-SV-8.0	<b>Date/Time Analyzed:</b>	1/7/20 09:19 PM
<b>Lab ID:</b>	2001059A-03A	<b>Dilution Factor:</b>	2.24
<b>Date/Time Collected:</b>	1/3/20 02:25 PM	<b>Instrument/Filename:</b>	msd3.i / 3010722
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	110-54-3	1.1	2.0	3.9	65
m,p-Xylene	108-38-3	0.57	2.4	4.9	17
Methyl tert-butyl ether	1634-04-4	1.6	5.0	16	Not Detected
Methylene Chloride	75-09-2	0.59	4.9	39	2.7 J
o-Xylene	95-47-6	0.36	2.4	4.9	4.8 J
Propylbenzene	103-65-1	0.48	2.8	5.5	0.86 J
Styrene	100-42-5	0.32	2.4	4.8	1.1 J
Tetrachloroethene	127-18-4	1.1	3.8	7.6	10
Tetrahydrofuran	109-99-9	0.27	1.6	3.3	4.2
Toluene	108-88-3	0.46	2.1	4.2	140
trans-1,2-Dichloroethene	156-60-5	0.95	2.2	4.4	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.26	2.5	5.1	Not Detected
Trichloroethene	79-01-6	0.77	3.0	6.0	Not Detected
Vinyl Chloride	75-01-4	0.48	1.4	2.9	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	100
4-Bromofluorobenzene	460-00-4	70-130	99
Toluene-d8	2037-26-5	70-130	100

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-2-SV-15.0	<b>Date/Time Analyzed:</b>	1/7/20 09:45 PM
<b>Lab ID:</b>	2001059A-04A	<b>Dilution Factor:</b>	2.45
<b>Date/Time Collected:</b>	1/3/20 03:09 PM	<b>Instrument/Filename:</b>	msd3.i / 3010723
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.98	3.3	6.7	23
1,1,2,2-Tetrachloroethane	79-34-5	0.56	4.2	8.4	Not Detected
1,1,2-Trichloroethane	79-00-5	0.71	3.3	6.7	Not Detected
1,1-Dichloroethane	75-34-3	0.85	2.5	5.0	Not Detected
1,1-Dichloroethene	75-35-4	1.1	2.4	4.8	Not Detected
1,2,4-Trichlorobenzene	120-82-1	1.2	11	36	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.98	3.0	6.0	6.8
1,2-Dibromoethane (EDB)	106-93-4	0.64	4.7	9.4	Not Detected
1,2-Dichlorobenzene	95-50-1	0.63	3.7	7.4	Not Detected
1,2-Dichloroethane	107-06-2	0.47	2.5	5.0	1.7 J
1,2-Dichloropropane	78-87-5	1.1	2.8	5.7	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.77	3.0	6.0	2.1 J
1,3-Butadiene	106-99-0	0.61	1.4	2.7	32
1,3-Dichlorobenzene	541-73-1	0.32	3.7	7.4	180
1,4-Dichlorobenzene	106-46-7	0.65	3.7	7.4	Not Detected
1,4-Dioxane	123-91-1	0.92	5.5	18	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.95	2.9	5.7	41
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.5	4.5	14	6.9 J
2-Hexanone	591-78-6	0.48	6.3	20	0.67 J
2-Propanol	67-63-0	1.2	3.8	12	1.5 J
3-Chloropropene	107-05-1	2.7	4.8	15	Not Detected
4-Ethyltoluene	622-96-8	0.47	3.0	6.0	3.7 J
4-Methyl-2-pentanone	108-10-1	2.3	2.5	5.0	2.4 J
Acetone	67-64-1	5.2	5.8	29	41

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-2-SV-15.0	<b>Date/Time Analyzed:</b>	1/7/20 09:45 PM
<b>Lab ID:</b>	2001059A-04A	<b>Dilution Factor:</b>	2.45
<b>Date/Time Collected:</b>	1/3/20 03:09 PM	<b>Instrument/Filename:</b>	msd3.i / 3010723
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
alpha-Chlorotoluene	100-44-7	0.62	3.2	6.3	Not Detected
Benzene	71-43-2	0.50	2.0	3.9	24
Bromodichloromethane	75-27-4	0.79	4.1	8.2	Not Detected
Bromoform	75-25-2	0.68	6.3	13	Not Detected
Bromomethane	74-83-9	3.4	5.9	48	Not Detected
Carbon Disulfide	75-15-0	8.1	9.2	15	31
Carbon Tetrachloride	56-23-5	0.79	3.8	7.7	1.3 J
Chlorobenzene	108-90-7	0.32	2.8	5.6	Not Detected
Chloroethane	75-00-3	2.2	4.0	13	Not Detected
Chloroform	67-66-3	0.90	3.0	6.0	49
Chloromethane	74-87-3	1.9	3.2	25	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.76	2.4	4.8	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.48	2.8	5.6	Not Detected
Cumene	98-82-8	0.55	3.0	6.0	1.0 J
Cyclohexane	110-82-7	0.67	2.1	4.2	29
Dibromochloromethane	124-48-1	0.67	5.2	10	Not Detected
Ethanol	64-17-5	1.9	2.8	9.2	14
Ethyl Benzene	100-41-4	0.63	2.6	5.3	5.2 J
Freon 11	75-69-4	1.1	3.4	6.9	1.9 J
Freon 113	76-13-1	1.5	4.7	9.4	Not Detected
Freon 114	76-14-2	1.2	4.3	8.6	Not Detected
Freon 12	75-71-8	0.59	3.0	6.0	2.2 J
Heptane	142-82-5	0.66	2.5	5.0	38
Hexachlorobutadiene	87-68-3	2.1	16	52	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-2-SV-15.0	<b>Date/Time Analyzed:</b>	1/7/20 09:45 PM
<b>Lab ID:</b>	2001059A-04A	<b>Dilution Factor:</b>	2.45
<b>Date/Time Collected:</b>	1/3/20 03:09 PM	<b>Instrument/Filename:</b>	msd3.i / 3010723
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	110-54-3	1.2	2.2	4.3	110
m,p-Xylene	108-38-3	0.63	2.6	5.3	12
Methyl tert-butyl ether	1634-04-4	1.7	5.5	18	Not Detected
Methylene Chloride	75-09-2	0.65	5.3	42	1.3 J
o-Xylene	95-47-6	0.40	2.6	5.3	5.1 J
Propylbenzene	103-65-1	0.53	3.0	6.0	1.6 J
Styrene	100-42-5	0.35	2.6	5.2	3.5 J
Tetrachloroethene	127-18-4	1.2	4.2	8.3	2.5 J
Tetrahydrofuran	109-99-9	0.30	1.8	3.6	Not Detected
Toluene	108-88-3	0.50	2.3	4.6	430
trans-1,2-Dichloroethene	156-60-5	1.0	2.4	4.8	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.28	2.8	5.6	Not Detected
Trichloroethene	79-01-6	0.84	3.3	6.6	Not Detected
Vinyl Chloride	75-01-4	0.53	1.6	3.1	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	100
4-Bromofluorobenzene	460-00-4	70-130	99
Toluene-d8	2037-26-5	70-130	98

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-3-SV-8.0	<b>Date/Time Analyzed:</b>	1/7/20 10:11 PM
<b>Lab ID:</b>	2001059A-05A	<b>Dilution Factor:</b>	2.32
<b>Date/Time Collected:</b>	1/3/20 12:45 PM	<b>Instrument/Filename:</b>	msd3.i / 3010724
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.92	3.2	6.3	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.53	4.0	8.0	Not Detected
1,1,2-Trichloroethane	79-00-5	0.67	3.2	6.3	Not Detected
1,1-Dichloroethane	75-34-3	0.81	2.3	4.7	Not Detected
1,1-Dichloroethene	75-35-4	1.0	2.3	4.6	Not Detected
1,2,4-Trichlorobenzene	120-82-1	1.2	11	34	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.92	2.8	5.7	1.6 J
1,2-Dibromoethane (EDB)	106-93-4	0.60	4.4	8.9	Not Detected
1,2-Dichlorobenzene	95-50-1	0.60	3.5	7.0	Not Detected
1,2-Dichloroethane	107-06-2	0.44	2.3	4.7	Not Detected
1,2-Dichloropropane	78-87-5	1.0	2.7	5.4	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.73	2.8	5.7	Not Detected
1,3-Butadiene	106-99-0	0.58	1.3	2.6	8.4
1,3-Dichlorobenzene	541-73-1	0.30	3.5	7.0	15
1,4-Dichlorobenzene	106-46-7	0.62	3.5	7.0	Not Detected
1,4-Dioxane	123-91-1	0.87	5.2	17	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.90	2.7	5.4	8.3
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.4	4.3	14	8.0 J
2-Hexanone	591-78-6	0.46	5.9	19	Not Detected
2-Propanol	67-63-0	1.1	3.6	11	1.6 J
3-Chloropropene	107-05-1	2.6	4.5	14	Not Detected
4-Ethyltoluene	622-96-8	0.44	2.8	5.7	0.84 J
4-Methyl-2-pentanone	108-10-1	2.2	2.4	4.8	Not Detected
Acetone	67-64-1	4.9	5.5	28	35

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-3-SV-8.0	<b>Date/Time Analyzed:</b>	1/7/20 10:11 PM
<b>Lab ID:</b>	2001059A-05A	<b>Dilution Factor:</b>	2.32
<b>Date/Time Collected:</b>	1/3/20 12:45 PM	<b>Instrument/Filename:</b>	msd3.i / 3010724
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
alpha-Chlorotoluene	100-44-7	0.59	3.0	6.0	Not Detected
Benzene	71-43-2	0.47	1.8	3.7	11
Bromodichloromethane	75-27-4	0.75	3.9	7.8	2.0 J
Bromoform	75-25-2	0.65	6.0	12	Not Detected
Bromomethane	74-83-9	3.2	5.6	45	Not Detected
Carbon Disulfide	75-15-0	7.6	8.7	14	11 J
Carbon Tetrachloride	56-23-5	0.74	3.6	7.3	0.76 J
Chlorobenzene	108-90-7	0.31	2.7	5.3	Not Detected
Chloroethane	75-00-3	2.1	3.8	12	Not Detected
Chloroform	67-66-3	0.85	2.8	5.7	33
Chloromethane	74-87-3	1.8	3.0	24	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.72	2.3	4.6	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.45	2.6	5.3	Not Detected
Cumene	98-82-8	0.52	2.8	5.7	Not Detected
Cyclohexane	110-82-7	0.63	2.0	4.0	9.1
Dibromochloromethane	124-48-1	0.63	4.9	9.9	Not Detected
Ethanol	64-17-5	1.8	2.6	8.7	15
Ethyl Benzene	100-41-4	0.60	2.5	5.0	1.8 J
Freon 11	75-69-4	1.1	3.2	6.5	1.4 J
Freon 113	76-13-1	1.4	4.4	8.9	Not Detected
Freon 114	76-14-2	1.2	4.0	8.1	Not Detected
Freon 12	75-71-8	0.56	2.9	5.7	2.2 J
Heptane	142-82-5	0.63	2.4	4.8	8.9
Hexachlorobutadiene	87-68-3	2.0	15	49	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-3-SV-8.0	<b>Date/Time Analyzed:</b>	1/7/20 10:11 PM
<b>Lab ID:</b>	2001059A-05A	<b>Dilution Factor:</b>	2.32
<b>Date/Time Collected:</b>	1/3/20 12:45 PM	<b>Instrument/Filename:</b>	msd3.i / 3010724
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	110-54-3	1.1	2.0	4.1	20
m,p-Xylene	108-38-3	0.59	2.5	5.0	5.9
Methyl tert-butyl ether	1634-04-4	1.6	5.2	17	Not Detected
Methylene Chloride	75-09-2	0.61	5.0	40	1.5 J
o-Xylene	95-47-6	0.38	2.5	5.0	1.6 J
Propylbenzene	103-65-1	0.50	2.8	5.7	Not Detected
Styrene	100-42-5	0.34	2.5	4.9	Not Detected
Tetrachloroethene	127-18-4	1.1	3.9	7.9	6.4 J
Tetrahydrofuran	109-99-9	0.28	1.7	3.4	Not Detected
Toluene	108-88-3	0.47	2.2	4.4	58
trans-1,2-Dichloroethene	156-60-5	0.98	2.3	4.6	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.26	2.6	5.3	Not Detected
Trichloroethene	79-01-6	0.80	3.1	6.2	Not Detected
Vinyl Chloride	75-01-4	0.50	1.5	3.0	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	99
4-Bromofluorobenzene	460-00-4	70-130	100
Toluene-d8	2037-26-5	70-130	99

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-3-SV-15.0	<b>Date/Time Analyzed:</b>	1/7/20 10:38 PM
<b>Lab ID:</b>	2001059A-06A	<b>Dilution Factor:</b>	2.38
<b>Date/Time Collected:</b>	1/3/20 01:06 PM	<b>Instrument/Filename:</b>	msd3.i / 3010725
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.95	3.2	6.5	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.54	4.1	8.2	Not Detected
1,1,2-Trichloroethane	79-00-5	0.69	3.2	6.5	Not Detected
1,1-Dichloroethane	75-34-3	0.83	2.4	4.8	Not Detected
1,1-Dichloroethene	75-35-4	1.1	2.4	4.7	Not Detected
1,2,4-Trichlorobenzene	120-82-1	1.2	11	35	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.95	2.9	5.8	1.9 J
1,2-Dibromoethane (EDB)	106-93-4	0.62	4.6	9.1	Not Detected
1,2-Dichlorobenzene	95-50-1	0.62	3.6	7.2	Not Detected
1,2-Dichloroethane	107-06-2	0.45	2.4	4.8	6.5
1,2-Dichloropropane	78-87-5	1.0	2.7	5.5	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.75	2.9	5.8	Not Detected
1,3-Butadiene	106-99-0	0.59	1.3	2.6	11
1,3-Dichlorobenzene	541-73-1	0.31	3.6	7.2	65
1,4-Dichlorobenzene	106-46-7	0.63	3.6	7.2	Not Detected
1,4-Dioxane	123-91-1	0.89	5.4	17	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.92	2.8	5.6	3.5 J
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.4	4.4	14	3.6 J
2-Hexanone	591-78-6	0.47	6.1	19	Not Detected
2-Propanol	67-63-0	1.1	3.6	12	5.8 J
3-Chloropropene	107-05-1	2.7	4.6	15	Not Detected
4-Ethyltoluene	622-96-8	0.45	2.9	5.8	1.9 J
4-Methyl-2-pentanone	108-10-1	2.2	2.4	4.9	5.3
Acetone	67-64-1	5.0	5.6	28	21 J



EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-3-SV-15.0	<b>Date/Time Analyzed:</b>	1/7/20 10:38 PM
<b>Lab ID:</b>	2001059A-06A	<b>Dilution Factor:</b>	2.38
<b>Date/Time Collected:</b>	1/3/20 01:06 PM	<b>Instrument/Filename:</b>	msd3.i / 3010725
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
alpha-Chlorotoluene	100-44-7	0.60	3.1	6.2	Not Detected
Benzene	71-43-2	0.49	1.9	3.8	10
Bromodichloromethane	75-27-4	0.76	4.0	8.0	Not Detected
Bromoform	75-25-2	0.66	6.2	12	Not Detected
Bromomethane	74-83-9	3.3	5.8	46	Not Detected
Carbon Disulfide	75-15-0	7.8	8.9	15	Not Detected
Carbon Tetrachloride	56-23-5	0.76	3.7	7.5	Not Detected
Chlorobenzene	108-90-7	0.32	2.7	5.5	Not Detected
Chloroethane	75-00-3	2.1	3.9	12	Not Detected
Chloroform	67-66-3	0.87	2.9	5.8	1.3 J
Chloromethane	74-87-3	1.8	3.1	24	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.74	2.4	4.7	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.46	2.7	5.4	Not Detected
Cumene	98-82-8	0.54	2.9	5.8	Not Detected
Cyclohexane	110-82-7	0.65	2.0	4.1	7.3
Dibromochloromethane	124-48-1	0.65	5.1	10	Not Detected
Ethanol	64-17-5	1.8	2.7	9.0	9.4
Ethyl Benzene	100-41-4	0.62	2.6	5.2	3.7 J
Freon 11	75-69-4	1.1	3.3	6.7	1.4 J
Freon 113	76-13-1	1.5	4.6	9.1	Not Detected
Freon 114	76-14-2	1.2	4.2	8.3	Not Detected
Freon 12	75-71-8	0.57	2.9	5.9	2.1 J
Heptane	142-82-5	0.64	2.4	4.9	2.7 J
Hexachlorobutadiene	87-68-3	2.0	16	51	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-3-SV-15.0	<b>Date/Time Analyzed:</b>	1/7/20 10:38 PM
<b>Lab ID:</b>	2001059A-06A	<b>Dilution Factor:</b>	2.38
<b>Date/Time Collected:</b>	1/3/20 01:06 PM	<b>Instrument/Filename:</b>	msd3.i / 3010725
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	110-54-3	1.2	2.1	4.2	12
m,p-Xylene	108-38-3	0.61	2.6	5.2	9.7
Methyl tert-butyl ether	1634-04-4	1.7	5.4	17	Not Detected
Methylene Chloride	75-09-2	0.63	5.2	41	0.95 J
o-Xylene	95-47-6	0.39	2.6	5.2	3.0 J
Propylbenzene	103-65-1	0.51	2.9	5.8	0.69 J
Styrene	100-42-5	0.34	2.5	5.1	7.8
Tetrachloroethene	127-18-4	1.2	4.0	8.1	1.5 J
Tetrahydrofuran	109-99-9	0.29	1.8	3.5	Not Detected
Toluene	108-88-3	0.48	2.2	4.5	100
trans-1,2-Dichloroethene	156-60-5	1.0	2.4	4.7	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.27	2.7	5.4	Not Detected
Trichloroethene	79-01-6	0.82	3.2	6.4	Not Detected
Vinyl Chloride	75-01-4	0.51	1.5	3.0	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	98
4-Bromofluorobenzene	460-00-4	70-130	100
Toluene-d8	2037-26-5	70-130	100

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-4-SV-8.0	<b>Date/Time Analyzed:</b>	1/7/20 11:04 PM
<b>Lab ID:</b>	2001059A-07A	<b>Dilution Factor:</b>	2.47
<b>Date/Time Collected:</b>	1/2/20 02:05 PM	<b>Instrument/Filename:</b>	msd3.i / 3010726
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.98	3.4	6.7	230
1,1,2,2-Tetrachloroethane	79-34-5	0.56	4.2	8.5	Not Detected
1,1,2-Trichloroethane	79-00-5	0.72	3.4	6.7	Not Detected
1,1-Dichloroethane	75-34-3	0.86	2.5	5.0	Not Detected
1,1-Dichloroethene	75-35-4	1.1	2.4	4.9	Not Detected
1,2,4-Trichlorobenzene	120-82-1	1.2	11	37	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.98	3.0	6.1	14
1,2-Dibromoethane (EDB)	106-93-4	0.64	4.7	9.5	Not Detected
1,2-Dichlorobenzene	95-50-1	0.64	3.7	7.4	Not Detected
1,2-Dichloroethane	107-06-2	0.47	2.5	5.0	Not Detected
1,2-Dichloropropane	78-87-5	1.1	2.8	5.7	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.78	3.0	6.1	5.5 J
1,3-Butadiene	106-99-0	0.62	1.4	2.7	22
1,3-Dichlorobenzene	541-73-1	0.32	3.7	7.4	41
1,4-Dichlorobenzene	106-46-7	0.66	3.7	7.4	Not Detected
1,4-Dioxane	123-91-1	0.93	5.6	18	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.96	2.9	5.8	12
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.5	4.6	14	20
2-Hexanone	591-78-6	0.48	6.3	20	1.9 J
2-Propanol	67-63-0	1.2	3.8	12	3.3 J
3-Chloropropene	107-05-1	2.8	4.8	15	Not Detected
4-Ethyltoluene	622-96-8	0.47	3.0	6.1	6.2
4-Methyl-2-pentanone	108-10-1	2.3	2.5	5.0	5.0
Acetone	67-64-1	5.2	5.9	29	68

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-4-SV-8.0	<b>Date/Time Analyzed:</b>	1/7/20 11:04 PM
<b>Lab ID:</b>	2001059A-07A	<b>Dilution Factor:</b>	2.47
<b>Date/Time Collected:</b>	1/2/20 02:05 PM	<b>Instrument/Filename:</b>	msd3.i / 3010726
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
alpha-Chlorotoluene	100-44-7	0.63	3.2	6.4	Not Detected
Benzene	71-43-2	0.50	2.0	3.9	22
Bromodichloromethane	75-27-4	0.79	4.1	8.3	Not Detected
Bromoform	75-25-2	0.69	6.4	13	Not Detected
Bromomethane	74-83-9	3.4	6.0	48	5.7 J
Carbon Disulfide	75-15-0	8.2	9.2	15	8.5 J
Carbon Tetrachloride	56-23-5	0.79	3.9	7.8	Not Detected
Chlorobenzene	108-90-7	0.33	2.8	5.7	Not Detected
Chloroethane	75-00-3	2.2	4.1	13	Not Detected
Chloroform	67-66-3	0.90	3.0	6.0	2.1 J
Chloromethane	74-87-3	1.9	3.2	26	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.77	2.4	4.9	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.48	2.8	5.6	Not Detected
Cumene	98-82-8	0.56	3.0	6.1	1.4 J
Cyclohexane	110-82-7	0.67	2.1	4.2	36
Dibromochloromethane	124-48-1	0.67	5.3	10	Not Detected
Ethanol	64-17-5	1.9	2.8	9.3	17
Ethyl Benzene	100-41-4	0.64	2.7	5.4	4.0 J
Freon 11	75-69-4	1.1	3.5	6.9	1.6 J
Freon 113	76-13-1	1.5	4.7	9.5	Not Detected
Freon 114	76-14-2	1.3	4.3	8.6	Not Detected
Freon 12	75-71-8	0.59	3.0	6.1	2.0 J
Heptane	142-82-5	0.67	2.5	5.1	22
Hexachlorobutadiene	87-68-3	2.1	16	53	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-4-SV-8.0	<b>Date/Time Analyzed:</b>	1/7/20 11:04 PM
<b>Lab ID:</b>	2001059A-07A	<b>Dilution Factor:</b>	2.47
<b>Date/Time Collected:</b>	1/2/20 02:05 PM	<b>Instrument/Filename:</b>	msd3.i / 3010726
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	110-54-3	1.2	2.2	4.4	44
m,p-Xylene	108-38-3	0.63	2.7	5.4	11
Methyl tert-butyl ether	1634-04-4	1.7	5.6	18	Not Detected
Methylene Chloride	75-09-2	0.65	5.4	43	1.1 J
o-Xylene	95-47-6	0.40	2.7	5.4	4.9 J
Propylbenzene	103-65-1	0.53	3.0	6.1	2.1 J
Styrene	100-42-5	0.36	2.6	5.3	2.6 J
Tetrachloroethene	127-18-4	1.2	4.2	8.4	1.5 J
Tetrahydrofuran	109-99-9	0.30	1.8	3.6	Not Detected
Toluene	108-88-3	0.50	2.3	4.6	110
trans-1,2-Dichloroethene	156-60-5	1.0	2.4	4.9	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.28	2.8	5.6	Not Detected
Trichloroethene	79-01-6	0.85	3.3	6.6	Not Detected
Vinyl Chloride	75-01-4	0.53	1.6	3.2	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	99
4-Bromofluorobenzene	460-00-4	70-130	101
Toluene-d8	2037-26-5	70-130	100

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-5-SV-8.0	<b>Date/Time Analyzed:</b>	1/9/20 12:36 PM
<b>Lab ID:</b>	2001059A-08A	<b>Dilution Factor:</b>	1.99
<b>Date/Time Collected:</b>	1/3/20 11:33 AM	<b>Instrument/Filename:</b>	msd3.i / 3010906
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.79	2.7	5.4	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.45	3.4	6.8	Not Detected
1,1,2-Trichloroethane	79-00-5	0.58	2.7	5.4	Not Detected
1,1-Dichloroethane	75-34-3	0.69	2.0	4.0	Not Detected
1,1-Dichloroethene	75-35-4	0.91	2.0	3.9	Not Detected
1,2,4-Trichlorobenzene	120-82-1	1.0	9.2	30	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.79	2.4	4.9	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.52	3.8	7.6	Not Detected
1,2-Dichlorobenzene	95-50-1	0.51	3.0	6.0	Not Detected
1,2-Dichloroethane	107-06-2	0.38	2.0	4.0	Not Detected
1,2-Dichloropropane	78-87-5	0.88	2.3	4.6	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.63	2.4	4.9	Not Detected
1,3-Butadiene	106-99-0	0.50	1.1	2.2	Not Detected
1,3-Dichlorobenzene	541-73-1	0.26	3.0	6.0	0.86 J
1,4-Dichlorobenzene	106-46-7	0.53	3.0	6.0	Not Detected
1,4-Dioxane	123-91-1	0.75	4.5	14	2.9 J
2,2,4-Trimethylpentane	540-84-1	0.77	2.3	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	1.2	3.7	12	Not Detected
2-Hexanone	591-78-6	0.39	5.1	16	Not Detected
2-Propanol	67-63-0	0.95	3.0	9.8	1.7 J
3-Chloropropene	107-05-1	2.2	3.9	12	Not Detected
4-Ethyltoluene	622-96-8	0.38	2.4	4.9	0.50 J
4-Methyl-2-pentanone	108-10-1	1.9	2.0	4.1	Not Detected
Acetone	67-64-1	4.2	4.7	24	9.9 J

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-5-SV-8.0	<b>Date/Time Analyzed:</b>	1/9/20 12:36 PM
<b>Lab ID:</b>	2001059A-08A	<b>Dilution Factor:</b>	1.99
<b>Date/Time Collected:</b>	1/3/20 11:33 AM	<b>Instrument/Filename:</b>	msd3.i / 3010906
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
alpha-Chlorotoluene	100-44-7	0.51	2.6	5.2	Not Detected
Benzene	71-43-2	0.41	1.6	3.2	0.89 J
Bromodichloromethane	75-27-4	0.64	3.3	6.7	Not Detected
Bromoform	75-25-2	0.56	5.1	10	Not Detected
Bromomethane	74-83-9	2.8	4.8	39	Not Detected
Carbon Disulfide	75-15-0	6.6	7.4	12	Not Detected
Carbon Tetrachloride	56-23-5	0.64	3.1	6.3	Not Detected
Chlorobenzene	108-90-7	0.26	2.3	4.6	Not Detected
Chloroethane	75-00-3	1.8	3.3	10	Not Detected
Chloroform	67-66-3	0.73	2.4	4.8	Not Detected
Chloromethane	74-87-3	1.5	2.6	20	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.62	2.0	3.9	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.39	2.2	4.5	Not Detected
Cumene	98-82-8	0.45	2.4	4.9	Not Detected
Cyclohexane	110-82-7	0.54	1.7	3.4	Not Detected
Dibromochloromethane	124-48-1	0.54	4.2	8.5	Not Detected
Ethanol	64-17-5	1.5	2.2	7.5	12
Ethyl Benzene	100-41-4	0.51	2.2	4.3	Not Detected
Freon 11	75-69-4	0.92	2.8	5.6	1.2 J
Freon 113	76-13-1	1.2	3.8	7.6	Not Detected
Freon 114	76-14-2	1.0	3.5	7.0	Not Detected
Freon 12	75-71-8	0.48	2.5	4.9	2.3 J
Heptane	142-82-5	0.54	2.0	4.1	Not Detected
Hexachlorobutadiene	87-68-3	1.7	13	42	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	RB-5-SV-8.0	<b>Date/Time Analyzed:</b>	1/9/20 12:36 PM
<b>Lab ID:</b>	2001059A-08A	<b>Dilution Factor:</b>	1.99
<b>Date/Time Collected:</b>	1/3/20 11:33 AM	<b>Instrument/Filename:</b>	msd3.i / 3010906
<b>Media:</b>	1 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	110-54-3	0.96	1.8	3.5	Not Detected
m,p-Xylene	108-38-3	0.51	2.2	4.3	0.98 J
Methyl tert-butyl ether	1634-04-4	1.4	4.5	14	Not Detected
Methylene Chloride	75-09-2	0.53	4.3	34	0.66 J
o-Xylene	95-47-6	0.32	2.2	4.3	0.36 J
Propylbenzene	103-65-1	0.43	2.4	4.9	Not Detected
Styrene	100-42-5	0.29	2.1	4.2	Not Detected
Tetrachloroethene	127-18-4	0.98	3.4	6.7	Not Detected
Tetrahydrofuran	109-99-9	0.24	1.5	2.9	Not Detected
Toluene	108-88-3	0.40	1.9	3.7	2.5 J
trans-1,2-Dichloroethene	156-60-5	0.84	2.0	3.9	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.23	2.2	4.5	Not Detected
Trichloroethene	79-01-6	0.68	2.7	5.3	Not Detected
Vinyl Chloride	75-01-4	0.43	1.3	2.5	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	102
4-Bromofluorobenzene	460-00-4	70-130	98
Toluene-d8	2037-26-5	70-130	98



EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	1/7/20 11:24 AM
<b>Lab ID:</b>	2001059A-09A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010705d
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.40	1.4	2.7	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.23	1.7	3.4	Not Detected
1,1,2-Trichloroethane	79-00-5	0.29	1.4	2.7	Not Detected
1,1-Dichloroethane	75-34-3	0.35	1.0	2.0	Not Detected
1,1-Dichloroethene	75-35-4	0.46	0.99	2.0	Not Detected
1,2,4-Trichlorobenzene	120-82-1	0.51	4.6	15	0.59 J
1,2,4-Trimethylbenzene	95-63-6	0.40	1.2	2.4	0.54 J
1,2-Dibromoethane (EDB)	106-93-4	0.26	1.9	3.8	Not Detected
1,2-Dichlorobenzene	95-50-1	0.26	1.5	3.0	Not Detected
1,2-Dichloroethane	107-06-2	0.19	1.0	2.0	Not Detected
1,2-Dichloropropane	78-87-5	0.44	1.2	2.3	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.31	1.2	2.4	0.47 J
1,3-Butadiene	106-99-0	0.25	0.55	1.1	Not Detected
1,3-Dichlorobenzene	541-73-1	0.13	1.5	3.0	0.24 J
1,4-Dichlorobenzene	106-46-7	0.27	1.5	3.0	0.29 J
1,4-Dioxane	123-91-1	0.38	2.2	7.2	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.39	1.2	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.60	1.8	5.9	Not Detected
2-Hexanone	591-78-6	0.20	2.6	8.2	Not Detected
2-Propanol	67-63-0	0.48	1.5	4.9	Not Detected
3-Chloropropene	107-05-1	1.1	2.0	6.3	Not Detected
4-Ethyltoluene	622-96-8	0.19	1.2	2.4	Not Detected
4-Methyl-2-pentanone	108-10-1	0.95	1.0	2.0	Not Detected
Acetone	67-64-1	2.1	2.4	12	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	1/7/20 11:24 AM
<b>Lab ID:</b>	2001059A-09A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010705d
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
alpha-Chlorotoluene	100-44-7	0.25	1.3	2.6	Not Detected
Benzene	71-43-2	0.20	0.80	1.6	Not Detected
Bromodichloromethane	75-27-4	0.32	1.7	3.4	Not Detected
Bromoform	75-25-2	0.28	2.6	5.2	Not Detected
Bromomethane	74-83-9	1.4	2.4	19	Not Detected
Carbon Disulfide	75-15-0	3.3	3.7	6.2	Not Detected
Carbon Tetrachloride	56-23-5	0.32	1.6	3.1	Not Detected
Chlorobenzene	108-90-7	0.13	1.2	2.3	Not Detected
Chloroethane	75-00-3	0.89	1.6	5.3	Not Detected
Chloroform	67-66-3	0.37	1.2	2.4	Not Detected
Chloromethane	74-87-3	0.78	1.3	10	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.31	0.99	2.0	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.20	1.1	2.3	Not Detected
Cumene	98-82-8	0.23	1.2	2.4	Not Detected
Cyclohexane	110-82-7	0.27	0.86	1.7	Not Detected
Dibromochloromethane	124-48-1	0.27	2.1	4.2	Not Detected
Ethanol	64-17-5	0.77	1.1	3.8	Not Detected
Ethyl Benzene	100-41-4	0.26	1.1	2.2	Not Detected
Freon 11	75-69-4	0.46	1.4	2.8	Not Detected
Freon 113	76-13-1	0.62	1.9	3.8	Not Detected
Freon 114	76-14-2	0.51	1.7	3.5	Not Detected
Freon 12	75-71-8	0.24	1.2	2.5	Not Detected
Heptane	142-82-5	0.27	1.0	2.0	Not Detected
Hexachlorobutadiene	87-68-3	0.84	6.7	21	0.95 J

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	1/7/20 11:24 AM
<b>Lab ID:</b>	2001059A-09A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010705d
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	110-54-3	0.48	0.88	1.8	Not Detected
m,p-Xylene	108-38-3	0.26	1.1	2.2	Not Detected
Methyl tert-butyl ether	1634-04-4	0.70	2.2	7.2	Not Detected
Methylene Chloride	75-09-2	0.26	2.2	17	Not Detected
o-Xylene	95-47-6	0.16	1.1	2.2	Not Detected
Propylbenzene	103-65-1	0.22	1.2	2.4	Not Detected
Styrene	100-42-5	0.14	1.1	2.1	Not Detected
Tetrachloroethene	127-18-4	0.50	1.7	3.4	Not Detected
Tetrahydrofuran	109-99-9	0.12	0.74	1.5	Not Detected
Toluene	108-88-3	0.20	0.94	1.9	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.42	0.99	2.0	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.11	1.1	2.3	Not Detected
Trichloroethene	79-01-6	0.34	1.3	2.7	Not Detected
Vinyl Chloride	75-01-4	0.21	0.64	1.3	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	100
4-Bromofluorobenzene	460-00-4	70-130	99
Toluene-d8	2037-26-5	70-130	100

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	1/9/20 10:59 AM
<b>Lab ID:</b>	2001059A-09B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010905a
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.40	1.4	2.7	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.23	1.7	3.4	Not Detected
1,1,2-Trichloroethane	79-00-5	0.29	1.4	2.7	Not Detected
1,1-Dichloroethane	75-34-3	0.35	1.0	2.0	Not Detected
1,1-Dichloroethene	75-35-4	0.46	0.99	2.0	Not Detected
1,2,4-Trichlorobenzene	120-82-1	0.51	4.6	15	0.70 J
1,2,4-Trimethylbenzene	95-63-6	0.40	1.2	2.4	0.58 J
1,2-Dibromoethane (EDB)	106-93-4	0.26	1.9	3.8	Not Detected
1,2-Dichlorobenzene	95-50-1	0.26	1.5	3.0	0.30 J
1,2-Dichloroethane	107-06-2	0.19	1.0	2.0	Not Detected
1,2-Dichloropropane	78-87-5	0.44	1.2	2.3	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.31	1.2	2.4	0.47 J
1,3-Butadiene	106-99-0	0.25	0.55	1.1	Not Detected
1,3-Dichlorobenzene	541-73-1	0.13	1.5	3.0	0.32 J
1,4-Dichlorobenzene	106-46-7	0.27	1.5	3.0	0.34 J
1,4-Dioxane	123-91-1	0.38	2.2	7.2	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.39	1.2	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.60	1.8	5.9	Not Detected
2-Hexanone	591-78-6	0.20	2.6	8.2	Not Detected
2-Propanol	67-63-0	0.48	1.5	4.9	Not Detected
3-Chloropropene	107-05-1	1.1	2.0	6.3	Not Detected
4-Ethyltoluene	622-96-8	0.19	1.2	2.4	Not Detected
4-Methyl-2-pentanone	108-10-1	0.95	1.0	2.0	Not Detected
Acetone	67-64-1	2.1	2.4	12	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	1/9/20 10:59 AM
<b>Lab ID:</b>	2001059A-09B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010905a
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
alpha-Chlorotoluene	100-44-7	0.25	1.3	2.6	Not Detected
Benzene	71-43-2	0.20	0.80	1.6	Not Detected
Bromodichloromethane	75-27-4	0.32	1.7	3.4	Not Detected
Bromoform	75-25-2	0.28	2.6	5.2	Not Detected
Bromomethane	74-83-9	1.4	2.4	19	Not Detected
Carbon Disulfide	75-15-0	3.3	3.7	6.2	Not Detected
Carbon Tetrachloride	56-23-5	0.32	1.6	3.1	Not Detected
Chlorobenzene	108-90-7	0.13	1.2	2.3	Not Detected
Chloroethane	75-00-3	0.89	1.6	5.3	Not Detected
Chloroform	67-66-3	0.37	1.2	2.4	Not Detected
Chloromethane	74-87-3	0.78	1.3	10	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.31	0.99	2.0	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.20	1.1	2.3	Not Detected
Cumene	98-82-8	0.23	1.2	2.4	Not Detected
Cyclohexane	110-82-7	0.27	0.86	1.7	Not Detected
Dibromochloromethane	124-48-1	0.27	2.1	4.2	Not Detected
Ethanol	64-17-5	0.77	1.1	3.8	Not Detected
Ethyl Benzene	100-41-4	0.26	1.1	2.2	Not Detected
Freon 11	75-69-4	0.46	1.4	2.8	Not Detected
Freon 113	76-13-1	0.62	1.9	3.8	Not Detected
Freon 114	76-14-2	0.51	1.7	3.5	Not Detected
Freon 12	75-71-8	0.24	1.2	2.5	Not Detected
Heptane	142-82-5	0.27	1.0	2.0	Not Detected
Hexachlorobutadiene	87-68-3	0.84	6.7	21	1.1 J

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	1/9/20 10:59 AM
<b>Lab ID:</b>	2001059A-09B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010905a
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	110-54-3	0.48	0.88	1.8	Not Detected
m,p-Xylene	108-38-3	0.26	1.1	2.2	Not Detected
Methyl tert-butyl ether	1634-04-4	0.70	2.2	7.2	Not Detected
Methylene Chloride	75-09-2	0.26	2.2	17	Not Detected
o-Xylene	95-47-6	0.16	1.1	2.2	Not Detected
Propylbenzene	103-65-1	0.22	1.2	2.4	0.24 J
Styrene	100-42-5	0.14	1.1	2.1	Not Detected
Tetrachloroethene	127-18-4	0.50	1.7	3.4	Not Detected
Tetrahydrofuran	109-99-9	0.12	0.74	1.5	Not Detected
Toluene	108-88-3	0.20	0.94	1.9	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.42	0.99	2.0	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.11	1.1	2.3	Not Detected
Trichloroethene	79-01-6	0.34	1.3	2.7	Not Detected
Vinyl Chloride	75-01-4	0.21	0.64	1.3	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	101
4-Bromofluorobenzene	460-00-4	70-130	98
Toluene-d8	2037-26-5	70-130	99

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	1/7/20 09:47 AM
<b>Lab ID:</b>	2001059A-10A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010702
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	100
1,1,2,2-Tetrachloroethane	79-34-5	100
1,1,2-Trichloroethane	79-00-5	102
1,1-Dichloroethane	75-34-3	101
1,1-Dichloroethene	75-35-4	103
1,2,4-Trichlorobenzene	120-82-1	101
1,2,4-Trimethylbenzene	95-63-6	103
1,2-Dibromoethane (EDB)	106-93-4	104
1,2-Dichlorobenzene	95-50-1	101
1,2-Dichloroethane	107-06-2	103
1,2-Dichloropropane	78-87-5	100
1,3,5-Trimethylbenzene	108-67-8	101
1,3-Butadiene	106-99-0	84
1,3-Dichlorobenzene	541-73-1	103
1,4-Dichlorobenzene	106-46-7	102
1,4-Dioxane	123-91-1	98
2,2,4-Trimethylpentane	540-84-1	99
2-Butanone (Methyl Ethyl Ketone)	78-93-3	102
2-Hexanone	591-78-6	97
2-Propanol	67-63-0	100
3-Chloropropene	107-05-1	104
4-Ethyltoluene	622-96-8	101
4-Methyl-2-pentanone	108-10-1	94
Acetone	67-64-1	103

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	1/7/20 09:47 AM
<b>Lab ID:</b>	2001059A-10A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010702
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
alpha-Chlorotoluene	100-44-7	103
Benzene	71-43-2	100
Bromodichloromethane	75-27-4	102
Bromoform	75-25-2	108
Bromomethane	74-83-9	105
Carbon Disulfide	75-15-0	100
Carbon Tetrachloride	56-23-5	107
Chlorobenzene	108-90-7	102
Chloroethane	75-00-3	104
Chloroform	67-66-3	100
Chloromethane	74-87-3	102
cis-1,2-Dichloroethene	156-59-2	103
cis-1,3-Dichloropropene	10061-01-5	103
Cumene	98-82-8	102
Cyclohexane	110-82-7	101
Dibromochloromethane	124-48-1	106
Ethanol	64-17-5	99
Ethyl Benzene	100-41-4	104
Freon 11	75-69-4	104
Freon 113	76-13-1	104
Freon 114	76-14-2	103
Freon 12	75-71-8	103
Heptane	142-82-5	99
Hexachlorobutadiene	87-68-3	102



EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	1/7/20 09:47 AM
<b>Lab ID:</b>	2001059A-10A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010702
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexane	110-54-3	96
m,p-Xylene	108-38-3	105
Methyl tert-butyl ether	1634-04-4	102
Methylene Chloride	75-09-2	100
o-Xylene	95-47-6	102
Propylbenzene	103-65-1	102
Styrene	100-42-5	102
Tetrachloroethene	127-18-4	104
Tetrahydrofuran	109-99-9	94
Toluene	108-88-3	95
trans-1,2-Dichloroethene	156-60-5	104
trans-1,3-Dichloropropene	10061-02-6	106
Trichloroethene	79-01-6	104
Vinyl Chloride	75-01-4	99

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	98
4-Bromofluorobenzene	460-00-4	70-130	99
Toluene-d8	2037-26-5	70-130	99

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	1/9/20 09:25 AM
<b>Lab ID:</b>	2001059A-10B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010902
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	99
1,1,2,2-Tetrachloroethane	79-34-5	99
1,1,2-Trichloroethane	79-00-5	102
1,1-Dichloroethane	75-34-3	99
1,1-Dichloroethene	75-35-4	99
1,2,4-Trichlorobenzene	120-82-1	96
1,2,4-Trimethylbenzene	95-63-6	100
1,2-Dibromoethane (EDB)	106-93-4	103
1,2-Dichlorobenzene	95-50-1	101
1,2-Dichloroethane	107-06-2	101
1,2-Dichloropropane	78-87-5	99
1,3,5-Trimethylbenzene	108-67-8	100
1,3-Butadiene	106-99-0	82
1,3-Dichlorobenzene	541-73-1	101
1,4-Dichlorobenzene	106-46-7	102
1,4-Dioxane	123-91-1	96
2,2,4-Trimethylpentane	540-84-1	97
2-Butanone (Methyl Ethyl Ketone)	78-93-3	100
2-Hexanone	591-78-6	97
2-Propanol	67-63-0	98
3-Chloropropene	107-05-1	100
4-Ethyltoluene	622-96-8	101
4-Methyl-2-pentanone	108-10-1	93
Acetone	67-64-1	101

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	1/9/20 09:25 AM
<b>Lab ID:</b>	2001059A-10B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010902
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
alpha-Chlorotoluene	100-44-7	101
Benzene	71-43-2	98
Bromodichloromethane	75-27-4	100
Bromoform	75-25-2	106
Bromomethane	74-83-9	102
Carbon Disulfide	75-15-0	97
Carbon Tetrachloride	56-23-5	106
Chlorobenzene	108-90-7	101
Chloroethane	75-00-3	100
Chloroform	67-66-3	98
Chloromethane	74-87-3	101
cis-1,2-Dichloroethene	156-59-2	102
cis-1,3-Dichloropropene	10061-01-5	101
Cumene	98-82-8	101
Cyclohexane	110-82-7	98
Dibromochloromethane	124-48-1	104
Ethanol	64-17-5	97
Ethyl Benzene	100-41-4	103
Freon 11	75-69-4	102
Freon 113	76-13-1	101
Freon 114	76-14-2	101
Freon 12	75-71-8	101
Heptane	142-82-5	97
Hexachlorobutadiene	87-68-3	97

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	1/9/20 09:25 AM
<b>Lab ID:</b>	2001059A-10B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010902
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexane	110-54-3	95
m,p-Xylene	108-38-3	104
Methyl tert-butyl ether	1634-04-4	99
Methylene Chloride	75-09-2	100
o-Xylene	95-47-6	100
Propylbenzene	103-65-1	102
Styrene	100-42-5	101
Tetrachloroethene	127-18-4	103
Tetrahydrofuran	109-99-9	94
Toluene	108-88-3	92
trans-1,2-Dichloroethene	156-60-5	101
trans-1,3-Dichloropropene	10061-02-6	104
Trichloroethene	79-01-6	102
Vinyl Chloride	75-01-4	94

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	98
4-Bromofluorobenzene	460-00-4	70-130	99
Toluene-d8	2037-26-5	70-130	98

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	1/7/20 10:11 AM
<b>Lab ID:</b>	2001059A-11A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010703
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	95
1,1,2,2-Tetrachloroethane	79-34-5	89
1,1,2-Trichloroethane	79-00-5	94
1,1-Dichloroethane	75-34-3	98
1,1-Dichloroethene	75-35-4	100
1,2,4-Trichlorobenzene	120-82-1	78
1,2,4-Trimethylbenzene	95-63-6	92
1,2-Dibromoethane (EDB)	106-93-4	96
1,2-Dichlorobenzene	95-50-1	93
1,2-Dichloroethane	107-06-2	98
1,2-Dichloropropane	78-87-5	95
1,3,5-Trimethylbenzene	108-67-8	92
1,3-Butadiene	106-99-0	83
1,3-Dichlorobenzene	541-73-1	93
1,4-Dichlorobenzene	106-46-7	91
1,4-Dioxane	123-91-1	94
2,2,4-Trimethylpentane	540-84-1	93
2-Butanone (Methyl Ethyl Ketone)	78-93-3	92
2-Hexanone	591-78-6	87
2-Propanol	67-63-0	89
3-Chloropropene	107-05-1	94
4-Ethyltoluene	622-96-8	90
4-Methyl-2-pentanone	108-10-1	87
Acetone	67-64-1	96

\* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	1/7/20 10:11 AM
<b>Lab ID:</b>	2001059A-11A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010703
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
alpha-Chlorotoluene	100-44-7	87
Benzene	71-43-2	93
Bromodichloromethane	75-27-4	96
Bromoform	75-25-2	95
Bromomethane	74-83-9	99
Carbon Disulfide	75-15-0	90
Carbon Tetrachloride	56-23-5	102
Chlorobenzene	108-90-7	92
Chloroethane	75-00-3	95
Chloroform	67-66-3	96
Chloromethane	74-87-3	92
cis-1,2-Dichloroethene	156-59-2	105
cis-1,3-Dichloropropene	10061-01-5	99
Cumene	98-82-8	94
Cyclohexane	110-82-7	94
Dibromochloromethane	124-48-1	98
Ethanol	64-17-5	78
Ethyl Benzene	100-41-4	95
Freon 11	75-69-4	98
Freon 113	76-13-1	99
Freon 114	76-14-2	98
Freon 12	75-71-8	96
Heptane	142-82-5	94
Hexachlorobutadiene	87-68-3	81

\* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	1/7/20 10:11 AM
<b>Lab ID:</b>	2001059A-11A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010703
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexane	110-54-3	92
m,p-Xylene	108-38-3	96
Methyl tert-butyl ether	1634-04-4	96
Methylene Chloride	75-09-2	93
o-Xylene	95-47-6	96
Propylbenzene	103-65-1	92
Styrene	100-42-5	92
Tetrachloroethene	127-18-4	97
Tetrahydrofuran	109-99-9	86
Toluene	108-88-3	90
trans-1,2-Dichloroethene	156-60-5	89
trans-1,3-Dichloropropene	10061-02-6	99
Trichloroethene	79-01-6	101
Vinyl Chloride	75-01-4	94

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	98
4-Bromofluorobenzene	460-00-4	70-130	98
Toluene-d8	2037-26-5	70-130	100

\* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	LCSD	<b>Date/Time Analyzed:</b>	1/7/20 10:36 AM
<b>Lab ID:</b>	2001059A-11AA	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010704
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	94
1,1,2,2-Tetrachloroethane	79-34-5	90
1,1,2-Trichloroethane	79-00-5	95
1,1-Dichloroethane	75-34-3	98
1,1-Dichloroethene	75-35-4	98
1,2,4-Trichlorobenzene	120-82-1	78
1,2,4-Trimethylbenzene	95-63-6	93
1,2-Dibromoethane (EDB)	106-93-4	96
1,2-Dichlorobenzene	95-50-1	93
1,2-Dichloroethane	107-06-2	96
1,2-Dichloropropane	78-87-5	94
1,3,5-Trimethylbenzene	108-67-8	92
1,3-Butadiene	106-99-0	81
1,3-Dichlorobenzene	541-73-1	93
1,4-Dichlorobenzene	106-46-7	92
1,4-Dioxane	123-91-1	93
2,2,4-Trimethylpentane	540-84-1	92
2-Butanone (Methyl Ethyl Ketone)	78-93-3	92
2-Hexanone	591-78-6	87
2-Propanol	67-63-0	89
3-Chloropropene	107-05-1	93
4-Ethyltoluene	622-96-8	91
4-Methyl-2-pentanone	108-10-1	86
Acetone	67-64-1	98

\* % Recovery is calculated using unrounded analytical results.



EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	LCSD	<b>Date/Time Analyzed:</b>	1/7/20 10:36 AM
<b>Lab ID:</b>	2001059A-11AA	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010704
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
alpha-Chlorotoluene	100-44-7	88
Benzene	71-43-2	93
Bromodichloromethane	75-27-4	96
Bromoform	75-25-2	97
Bromomethane	74-83-9	99
Carbon Disulfide	75-15-0	90
Carbon Tetrachloride	56-23-5	101
Chlorobenzene	108-90-7	93
Chloroethane	75-00-3	96
Chloroform	67-66-3	95
Chloromethane	74-87-3	91
cis-1,2-Dichloroethene	156-59-2	105
cis-1,3-Dichloropropene	10061-01-5	98
Cumene	98-82-8	94
Cyclohexane	110-82-7	94
Dibromochloromethane	124-48-1	99
Ethanol	64-17-5	78
Ethyl Benzene	100-41-4	95
Freon 11	75-69-4	97
Freon 113	76-13-1	98
Freon 114	76-14-2	97
Freon 12	75-71-8	96
Heptane	142-82-5	94
Hexachlorobutadiene	87-68-3	80

\* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	LCSD	<b>Date/Time Analyzed:</b>	1/7/20 10:36 AM
<b>Lab ID:</b>	2001059A-11AA	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010704
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexane	110-54-3	91
m,p-Xylene	108-38-3	96
Methyl tert-butyl ether	1634-04-4	96
Methylene Chloride	75-09-2	93
o-Xylene	95-47-6	96
Propylbenzene	103-65-1	92
Styrene	100-42-5	93
Tetrachloroethene	127-18-4	97
Tetrahydrofuran	109-99-9	84
Toluene	108-88-3	90
trans-1,2-Dichloroethene	156-60-5	88
trans-1,3-Dichloropropene	10061-02-6	100
Trichloroethene	79-01-6	100
Vinyl Chloride	75-01-4	94

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	98
4-Bromofluorobenzene	460-00-4	70-130	100
Toluene-d8	2037-26-5	70-130	99

\* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	1/9/20 09:50 AM
<b>Lab ID:</b>	2001059A-11B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010903
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	95
1,1,2,2-Tetrachloroethane	79-34-5	91
1,1,2-Trichloroethane	79-00-5	96
1,1-Dichloroethane	75-34-3	97
1,1-Dichloroethene	75-35-4	99
1,2,4-Trichlorobenzene	120-82-1	78
1,2,4-Trimethylbenzene	95-63-6	94
1,2-Dibromoethane (EDB)	106-93-4	98
1,2-Dichlorobenzene	95-50-1	94
1,2-Dichloroethane	107-06-2	91
1,2-Dichloropropane	78-87-5	90
1,3,5-Trimethylbenzene	108-67-8	93
1,3-Butadiene	106-99-0	76
1,3-Dichlorobenzene	541-73-1	95
1,4-Dichlorobenzene	106-46-7	93
1,4-Dioxane	123-91-1	87
2,2,4-Trimethylpentane	540-84-1	92
2-Butanone (Methyl Ethyl Ketone)	78-93-3	91
2-Hexanone	591-78-6	90
2-Propanol	67-63-0	91
3-Chloropropene	107-05-1	91
4-Ethyltoluene	622-96-8	93
4-Methyl-2-pentanone	108-10-1	83
Acetone	67-64-1	98

\* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	1/9/20 09:50 AM
<b>Lab ID:</b>	2001059A-11B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010903
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
alpha-Chlorotoluene	100-44-7	88
Benzene	71-43-2	89
Bromodichloromethane	75-27-4	91
Bromoform	75-25-2	98
Bromomethane	74-83-9	95
Carbon Disulfide	75-15-0	90
Carbon Tetrachloride	56-23-5	100
Chlorobenzene	108-90-7	94
Chloroethane	75-00-3	94
Chloroform	67-66-3	96
Chloromethane	74-87-3	87
cis-1,2-Dichloroethene	156-59-2	106
cis-1,3-Dichloropropene	10061-01-5	93
Cumene	98-82-8	95
Cyclohexane	110-82-7	93
Dibromochloromethane	124-48-1	100
Ethanol	64-17-5	80
Ethyl Benzene	100-41-4	96
Freon 11	75-69-4	98
Freon 113	76-13-1	99
Freon 114	76-14-2	97
Freon 12	75-71-8	93
Heptane	142-82-5	88
Hexachlorobutadiene	87-68-3	80

\* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	1/9/20 09:50 AM
<b>Lab ID:</b>	2001059A-11B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010903
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexane	110-54-3	91
m,p-Xylene	108-38-3	98
Methyl tert-butyl ether	1634-04-4	94
Methylene Chloride	75-09-2	97
o-Xylene	95-47-6	96
Propylbenzene	103-65-1	93
Styrene	100-42-5	92
Tetrachloroethene	127-18-4	98
Tetrahydrofuran	109-99-9	87
Toluene	108-88-3	86
trans-1,2-Dichloroethene	156-60-5	88
trans-1,3-Dichloropropene	10061-02-6	100
Trichloroethene	79-01-6	95
Vinyl Chloride	75-01-4	89

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	98
4-Bromofluorobenzene	460-00-4	70-130	99
Toluene-d8	2037-26-5	70-130	94

\* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	LCSD	<b>Date/Time Analyzed:</b>	1/9/20 10:15 AM
<b>Lab ID:</b>	2001059A-11BB	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010904
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	95
1,1,2,2-Tetrachloroethane	79-34-5	91
1,1,2-Trichloroethane	79-00-5	96
1,1-Dichloroethane	75-34-3	98
1,1-Dichloroethene	75-35-4	100
1,2,4-Trichlorobenzene	120-82-1	80
1,2,4-Trimethylbenzene	95-63-6	94
1,2-Dibromoethane (EDB)	106-93-4	98
1,2-Dichlorobenzene	95-50-1	95
1,2-Dichloroethane	107-06-2	99
1,2-Dichloropropane	78-87-5	97
1,3,5-Trimethylbenzene	108-67-8	94
1,3-Butadiene	106-99-0	78
1,3-Dichlorobenzene	541-73-1	94
1,4-Dichlorobenzene	106-46-7	93
1,4-Dioxane	123-91-1	93
2,2,4-Trimethylpentane	540-84-1	93
2-Butanone (Methyl Ethyl Ketone)	78-93-3	92
2-Hexanone	591-78-6	89
2-Propanol	67-63-0	91
3-Chloropropene	107-05-1	91
4-Ethyltoluene	622-96-8	93
4-Methyl-2-pentanone	108-10-1	88
Acetone	67-64-1	99

\* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	LCSD	<b>Date/Time Analyzed:</b>	1/9/20 10:15 AM
<b>Lab ID:</b>	2001059A-11BB	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010904
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
alpha-Chlorotoluene	100-44-7	88
Benzene	71-43-2	95
Bromodichloromethane	75-27-4	97
Bromoform	75-25-2	97
Bromomethane	74-83-9	97
Carbon Disulfide	75-15-0	90
Carbon Tetrachloride	56-23-5	102
Chlorobenzene	108-90-7	94
Chloroethane	75-00-3	96
Chloroform	67-66-3	96
Chloromethane	74-87-3	90
cis-1,2-Dichloroethene	156-59-2	106
cis-1,3-Dichloropropene	10061-01-5	100
Cumene	98-82-8	95
Cyclohexane	110-82-7	94
Dibromochloromethane	124-48-1	99
Ethanol	64-17-5	80
Ethyl Benzene	100-41-4	96
Freon 11	75-69-4	99
Freon 113	76-13-1	100
Freon 114	76-14-2	98
Freon 12	75-71-8	96
Heptane	142-82-5	94
Hexachlorobutadiene	87-68-3	82

\* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN  
 EBALDC- 285 12th Street

<b>Client ID:</b>	LCSD	<b>Date/Time Analyzed:</b>	1/9/20 10:15 AM
<b>Lab ID:</b>	2001059A-11BB	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd3.i / 3010904
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Hexane	110-54-3	92
m,p-Xylene	108-38-3	98
Methyl tert-butyl ether	1634-04-4	95
Methylene Chloride	75-09-2	96
o-Xylene	95-47-6	97
Propylbenzene	103-65-1	94
Styrene	100-42-5	93
Tetrachloroethene	127-18-4	99
Tetrahydrofuran	109-99-9	87
Toluene	108-88-3	91
trans-1,2-Dichloroethene	156-60-5	89
trans-1,3-Dichloropropene	10061-02-6	99
Trichloroethene	79-01-6	102
Vinyl Chloride	75-01-4	91

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	98
4-Bromofluorobenzene	460-00-4	70-130	99
Toluene-d8	2037-26-5	70-130	100

\* % Recovery is calculated using unrounded analytical results.





# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 2001093 A

**Report Created for:** Roux Associates, Inc.

555 12th Street, Suite 250  
Oakland, CA 94607

**Project Contact:** Taylor Barrett

**Project P.O.:** 3374.0003S000

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Project Received:** 01/03/2020

Analytical Report reviewed & approved for release on 01/13/2020 by:

Yen Cao

Project Manager

*The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.*





## Glossary of Terms & Qualifier Definitions

**Client:** Roux Associates, Inc.  
**Project:** 3374.0003S000; EBALDC-285 12th Street  
**WorkOrder:** 2001093 A

### Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



## **Glossary of Terms & Qualifier Definitions**

**Client:** Roux Associates, Inc.  
**Project:** 3374.0003S000; EBALDC-285 12th Street  
**WorkOrder:** 2001093 A

### **Analytical Qualifiers**

B Analyte detected in the associated Method Blank and in the sample.  
H Samples were analyzed out of hold time.  
J Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.  
a9 Reporting limit near, but not identical to, our standard reporting limit due to variable Encore/Solid sample weight.

### **Quality Control Qualifiers**

F2 LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.



## Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/6/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-15.0	2001093-011A	Soil	01/03/2020 09:55	GC16 01072017.D	191739

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND	H	0.055	0.082	1	01/07/2020 18:29
tert-Amyl methyl ether (TAME)	ND	H	0.00064	0.0041	1	01/07/2020 18:29
Benzene	ND	H	0.00080	0.0041	1	01/07/2020 18:29
Bromobenzene	ND	H	0.00098	0.0041	1	01/07/2020 18:29
Bromochloromethane	ND	H	0.00090	0.0041	1	01/07/2020 18:29
Bromodichloromethane	ND	H	0.00023	0.00082	1	01/07/2020 18:29
Bromoform	<b>0.0021</b>	JBH	0.0014	0.0041	1	01/07/2020 18:29
Bromomethane	ND	H	0.0015	0.0041	1	01/07/2020 18:29
2-Butanone (MEK)	ND	H	0.0090	0.016	1	01/07/2020 18:29
t-Butyl alcohol (TBA)	ND	H	0.026	0.041	1	01/07/2020 18:29
n-Butyl benzene	ND	H	0.0017	0.0041	1	01/07/2020 18:29
sec-Butyl benzene	ND	H	0.0014	0.0041	1	01/07/2020 18:29
tert-Butyl benzene	ND	H	0.0011	0.0041	1	01/07/2020 18:29
Carbon Disulfide	<b>0.0027</b>	JH	0.0024	0.0041	1	01/07/2020 18:29
Carbon Tetrachloride	ND	H	0.00073	0.0041	1	01/07/2020 18:29
Chlorobenzene	ND	H	0.00070	0.0041	1	01/07/2020 18:29
Chloroethane	ND	H	0.0016	0.0041	1	01/07/2020 18:29
Chloroform	<b>0.00011</b>	JH	0.000090	0.0041	1	01/07/2020 18:29
Chloromethane	ND	H	0.0021	0.0041	1	01/07/2020 18:29
2-Chlorotoluene	ND	H	0.0013	0.0041	1	01/07/2020 18:29
4-Chlorotoluene	ND	H	0.00098	0.0041	1	01/07/2020 18:29
Dibromochloromethane	ND	H	0.00016	0.0041	1	01/07/2020 18:29
1,2-Dibromo-3-chloropropane	ND	H	0.00013	0.00020	1	01/07/2020 18:29
1,2-Dibromoethane (EDB)	ND	H	0.000028	0.000082	1	01/07/2020 18:29
Dibromomethane	ND	H	0.00066	0.0041	1	01/07/2020 18:29
1,2-Dichlorobenzene	ND	H	0.00090	0.0041	1	01/07/2020 18:29
1,3-Dichlorobenzene	ND	H	0.00082	0.0041	1	01/07/2020 18:29
1,4-Dichlorobenzene	ND	H	0.00069	0.0041	1	01/07/2020 18:29
Dichlorodifluoromethane	ND	H	0.0011	0.0041	1	01/07/2020 18:29
1,1-Dichloroethane	ND	H	0.00072	0.0041	1	01/07/2020 18:29
1,2-Dichloroethane (1,2-DCA)	ND	H	0.000071	0.00020	1	01/07/2020 18:29
1,1-Dichloroethene	ND	H	0.000023	0.00020	1	01/07/2020 18:29
cis-1,2-Dichloroethene	ND	H	0.00069	0.0041	1	01/07/2020 18:29
trans-1,2-Dichloroethene	ND	H	0.00090	0.0041	1	01/07/2020 18:29
1,2-Dichloropropane	ND	H	0.00065	0.0041	1	01/07/2020 18:29
1,3-Dichloropropane	ND	H	0.00057	0.0041	1	01/07/2020 18:29
2,2-Dichloropropane	ND	H	0.0016	0.0041	1	01/07/2020 18:29

(Cont.)



## Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/6/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-15.0	2001093-011A	Soil	01/03/2020 09:55	GC16 01072017.D	191739

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.00068	0.0041	1	01/07/2020 18:29
cis-1,3-Dichloropropene	ND	H	0.0014	0.0041	1	01/07/2020 18:29
trans-1,3-Dichloropropene	ND	H	0.0016	0.0041	1	01/07/2020 18:29
Diisopropyl ether (DIPE)	ND	H	0.00090	0.0041	1	01/07/2020 18:29
Ethylbenzene	ND	H	0.00078	0.0041	1	01/07/2020 18:29
Ethyl tert-butyl ether (ETBE)	ND	H	0.00090	0.0041	1	01/07/2020 18:29
Freon 113	ND	H	0.00090	0.0041	1	01/07/2020 18:29
Hexachlorobutadiene	ND	H	0.0019	0.0041	1	01/07/2020 18:29
Hexachloroethane	ND	H	0.0011	0.0041	1	01/07/2020 18:29
2-Hexanone	ND	H	0.0025	0.0041	1	01/07/2020 18:29
Isopropylbenzene	ND	H	0.0014	0.0041	1	01/07/2020 18:29
4-Isopropyl toluene	ND	H	0.0012	0.0041	1	01/07/2020 18:29
Methyl-t-butyl ether (MTBE)	ND	H	0.0014	0.0041	1	01/07/2020 18:29
Methylene chloride	ND	H	0.0065	0.0082	1	01/07/2020 18:29
4-Methyl-2-pentanone (MIBK)	ND	H	0.0024	0.0041	1	01/07/2020 18:29
Naphthalene	ND	H	0.0029	0.0041	1	01/07/2020 18:29
n-Propyl benzene	ND	H	0.0013	0.0041	1	01/07/2020 18:29
Styrene	ND	H	0.0022	0.0041	1	01/07/2020 18:29
1,1,1,2-Tetrachloroethane	ND	H	0.00073	0.0041	1	01/07/2020 18:29
1,1,2,2-Tetrachloroethane	ND	H	0.000036	0.00020	1	01/07/2020 18:29
Tetrachloroethene	ND	H	0.00016	0.00082	1	01/07/2020 18:29
Toluene	ND	H	0.0013	0.0041	1	01/07/2020 18:29
1,2,3-Trichlorobenzene	ND	H	0.0030	0.0041	1	01/07/2020 18:29
1,2,4-Trichlorobenzene	ND	H	0.0015	0.0041	1	01/07/2020 18:29
1,1,1-Trichloroethane	ND	H	0.00069	0.0041	1	01/07/2020 18:29
1,1,2-Trichloroethane	ND	H	0.00055	0.0041	1	01/07/2020 18:29
Trichloroethene	ND	H	0.0013	0.0041	1	01/07/2020 18:29
Trichlorofluoromethane	ND	H	0.0011	0.0041	1	01/07/2020 18:29
1,2,3-Trichloropropane	ND	H	0.000034	0.000041	1	01/07/2020 18:29
1,2,4-Trimethylbenzene	ND	H	0.0012	0.0041	1	01/07/2020 18:29
1,3,5-Trimethylbenzene	ND	H	0.0013	0.0041	1	01/07/2020 18:29
Vinyl Chloride	ND	H	0.000043	0.00020	1	01/07/2020 18:29
m,p-Xylene	ND	H	0.0019	0.0041	1	01/07/2020 18:29
o-Xylene	ND	H	0.00060	0.0041	1	01/07/2020 18:29
Xylenes, Total	ND	H	NA	0.0041	1	01/07/2020 18:29

(Cont.)



# Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/6/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

## Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-15.0	2001093-011A	Soil	01/03/2020 09:55	GC16 01072017.D	191739

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<b>Surrogates</b>	<b>REC (%)</b>	<b>Qualifiers</b>		<b>Limits</b>		
Dibromofluoromethane	93	H		71-151		01/07/2020 18:29
Toluene-d8	112	H		90-150		01/07/2020 18:29
4-BFB	87	H		83-143		01/07/2020 18:29
Benzene-d6	82	H		71-118		01/07/2020 18:29
Ethylbenzene-d10	96	H		79-125		01/07/2020 18:29
1,2-DCB-d4	65	H		57-112		01/07/2020 18:29

Analyst(s): KF

Analytical Comments: a9



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/6/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW5035  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

### TPH(g) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-15.0	2001093-011A	Soil	01/03/2020 09:55	GC16 01072017.D	191740

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	H	0.20	0.20	1	01/07/2020 18:29

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
Dibromofluoromethane	81	H	70-130	01/07/2020 18:29
Benzene-D6	86	H	70-130	01/07/2020 18:29

**Analyst(s):** KF **Analytical Comments:** a9



## Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/6/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/kg

### TPH(g) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-15.0	2001093-011A	Soil	01/03/2020 09:55	GC16 01072017.D	191740

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	H	0.20	0.20	1	01/07/2020 18:29

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
Dibromofluoromethane	81	H	70-130	01/07/2020 18:29
Benzene-D6	86	H	70-130	01/07/2020 18:29

**Analyst(s):** KF

**Analytical Comments:** a9





## Quality Control Report

<b>Client:</b>	Roux Associates, Inc.	<b>WorkOrder:</b>	2001093
<b>Date Prepared:</b>	1/6/20	<b>BatchID:</b>	191739
<b>Date Analyzed:</b>	1/7/20	<b>Extraction Method:</b>	SW5035
<b>Instrument:</b>	GC38	<b>Analytical Method:</b>	SW8260B
<b>Matrix:</b>	Soil	<b>Unit:</b>	mg/Kg
<b>Project:</b>	3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b>	MB/LCS/LCSD-191739

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	0.13	0.20	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0016	0.010	-	-	-
Benzene	ND	0.0020	0.010	-	-	-
Bromobenzene	ND	0.0024	0.010	-	-	-
Bromochloromethane	ND	0.0022	0.010	-	-	-
Bromodichloromethane	ND	0.00056	0.0020	-	-	-
Bromoform	0.0064,J	0.0034	0.010	-	-	-
Bromomethane	ND	0.0036	0.010	-	-	-
2-Butanone (MEK)	ND	0.022	0.040	-	-	-
t-Butyl alcohol (TBA)	ND	0.064	0.10	-	-	-
n-Butyl benzene	ND	0.0042	0.010	-	-	-
sec-Butyl benzene	ND	0.0034	0.010	-	-	-
tert-Butyl benzene	ND	0.0026	0.010	-	-	-
Carbon Disulfide	ND	0.0060	0.010	-	-	-
Carbon Tetrachloride	ND	0.0018	0.010	-	-	-
Chlorobenzene	ND	0.0017	0.010	-	-	-
Chloroethane	ND	0.0040	0.010	-	-	-
Chloroform	ND	0.00022	0.010	-	-	-
Chloromethane	ND	0.0052	0.010	-	-	-
2-Chlorotoluene	ND	0.0032	0.010	-	-	-
4-Chlorotoluene	ND	0.0024	0.010	-	-	-
Dibromochloromethane	ND	0.00038	0.010	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.00032	0.00050	-	-	-
1,2-Dibromoethane (EDB)	ND	0.000068	0.00020	-	-	-
Dibromomethane	ND	0.0016	0.010	-	-	-
1,2-Dichlorobenzene	ND	0.0022	0.010	-	-	-
1,3-Dichlorobenzene	ND	0.0020	0.010	-	-	-
1,4-Dichlorobenzene	ND	0.0017	0.010	-	-	-
Dichlorodifluoromethane	ND	0.0026	0.010	-	-	-
1,1-Dichloroethane	ND	0.0018	0.010	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.00017	0.00050	-	-	-
1,1-Dichloroethene	ND	0.000056	0.00050	-	-	-
cis-1,2-Dichloroethene	ND	0.0017	0.010	-	-	-
trans-1,2-Dichloroethene	ND	0.0022	0.010	-	-	-
1,2-Dichloropropane	ND	0.0016	0.010	-	-	-
1,3-Dichloropropane	ND	0.0014	0.010	-	-	-
2,2-Dichloropropane	ND	0.0038	0.010	-	-	-
1,1-Dichloropropene	ND	0.0017	0.010	-	-	-

(Cont.)



## Quality Control Report

<b>Client:</b>	Roux Associates, Inc.	<b>WorkOrder:</b>	2001093
<b>Date Prepared:</b>	1/6/20	<b>BatchID:</b>	191739
<b>Date Analyzed:</b>	1/7/20	<b>Extraction Method:</b>	SW5035
<b>Instrument:</b>	GC38	<b>Analytical Method:</b>	SW8260B
<b>Matrix:</b>	Soil	<b>Unit:</b>	mg/Kg
<b>Project:</b>	3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b>	MB/LCS/LCSD-191739

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.0034	0.010	-	-	-
trans-1,3-Dichloropropene	ND	0.0040	0.010	-	-	-
Diisopropyl ether (DIPE)	ND	0.0022	0.010	-	-	-
Ethylbenzene	ND	0.0019	0.010	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0022	0.010	-	-	-
Freon 113	ND	0.0022	0.010	-	-	-
Hexachlorobutadiene	ND	0.0046	0.010	-	-	-
Hexachloroethane	ND	0.0028	0.010	-	-	-
2-Hexanone	ND	0.0062	0.010	-	-	-
Isopropylbenzene	ND	0.0034	0.010	-	-	-
4-Isopropyl toluene	ND	0.0030	0.010	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0034	0.010	-	-	-
Methylene chloride	ND	0.016	0.020	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.0058	0.010	-	-	-
Naphthalene	ND	0.0072	0.010	-	-	-
n-Propyl benzene	ND	0.0032	0.010	-	-	-
Styrene	ND	0.0054	0.010	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.0018	0.010	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.000087	0.00050	-	-	-
Tetrachloroethene	ND	0.00040	0.0020	-	-	-
Toluene	ND	0.0032	0.010	-	-	-
1,2,3-Trichlorobenzene	ND	0.0074	0.010	-	-	-
1,2,4-Trichlorobenzene	ND	0.0036	0.010	-	-	-
1,1,1-Trichloroethane	ND	0.0017	0.010	-	-	-
1,1,2-Trichloroethane	ND	0.0013	0.010	-	-	-
Trichloroethene	ND	0.0032	0.010	-	-	-
Trichlorofluoromethane	ND	0.0028	0.010	-	-	-
1,2,3-Trichloropropane	ND	0.000084	0.00010	-	-	-
1,2,4-Trimethylbenzene	ND	0.0030	0.010	-	-	-
1,3,5-Trimethylbenzene	ND	0.0032	0.010	-	-	-
Vinyl Chloride	ND	0.00011	0.00050	-	-	-
m,p-Xylene	ND	0.0046	0.010	-	-	-
o-Xylene	ND	0.0015	0.010	-	-	-

(Cont.)



## Quality Control Report

<b>Client:</b> Roux Associates, Inc.	<b>WorkOrder:</b> 2001093
<b>Date Prepared:</b> 1/6/20	<b>BatchID:</b> 191739
<b>Date Analyzed:</b> 1/7/20	<b>Extraction Method:</b> SW5035
<b>Instrument:</b> GC38	<b>Analytical Method:</b> SW8260B
<b>Matrix:</b> Soil	<b>Unit:</b> mg/Kg
<b>Project:</b> 3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b> MB/LCS/LCSD-191739

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
<b>Surrogate Recovery</b>						
Dibromofluoromethane	0.22			0.25	89	85-129
Toluene-d8	0.27			0.25	108	98-136
4-BFB	0.025			0.025	98	83-137
Benzene-d6	0.17			0.2	87	67-135
Ethylbenzene-d10	0.21			0.2	107	81-152
1,2-DCB-d4	0.16			0.2	78	61-112

(Cont.)



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 1/6/20  
**Date Analyzed:** 1/7/20  
**Instrument:** GC38  
**Matrix:** Soil  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**BatchID:** 191739  
**Extraction Method:** SW5035  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-191739

### QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	0.31	0.27	0.80	39,F2	34,F2	65-143	15.1	20
tert-Amyl methyl ether (TAME)	0.025	0.023	0.040	62	57	55-119	7.77	30
Benzene	0.032	0.029	0.040	79	73	64-131	7.14	30
Bromobenzene	0.036	0.033	0.040	89	83	66-132	7.13	30
Bromochloromethane	0.031	0.029	0.040	78	72	66-123	8.02	30
Bromodichloromethane	0.030	0.027	0.040	74	68	63-121	7.83	30
Bromoform	0.032	0.030	0.040	81	76	50-92	7.05	30
Bromomethane	0.018	0.017	0.040	44	42	42-146	5.52	30
2-Butanone (MEK)	0.10	0.088	0.16	64	55,F2	59-127	15.4	30
t-Butyl alcohol (TBA)	0.095	0.089	0.16	59	55	54-132	6.55	30
n-Butyl benzene	0.050	0.046	0.040	125	114	91-188	8.85	30
sec-Butyl benzene	0.049	0.044	0.040	124	110	89-186	11.6	30
tert-Butyl benzene	0.046	0.042	0.040	116	105	83-180	10.0	30
Carbon Disulfide	0.031	0.029	0.040	78	72	59-149	7.40	30
Carbon Tetrachloride	0.034	0.032	0.040	86	80	66-139	7.55	30
Chlorobenzene	0.035	0.032	0.040	88	80	65-127	9.27	30
Chloroethane	0.032	0.029	0.040	80	72	41-142	9.79	30
Chloroform	0.034	0.031	0.040	84	78	73-124	7.16	30
Chloromethane	0.024	0.023	0.040	61	57	28-144	7.67	30
2-Chlorotoluene	0.042	0.038	0.040	106	96	76-152	9.70	30
4-Chlorotoluene	0.040	0.037	0.040	101	92	71-148	9.45	30
Dibromochloromethane	0.029	0.026	0.040	73	66	63-105	9.97	30
1,2-Dibromo-3-chloropropane	0.012	0.011	0.020	58	54	42-115	7.66	20
1,2-Dibromoethane (EDB)	0.014	0.013	0.020	72	66	66-126	9.15	20
Dibromomethane	0.027	0.025	0.040	67	64	63-116	5.88	30
1,2-Dichlorobenzene	0.031	0.028	0.040	77	70	59-107	9.40	30
1,3-Dichlorobenzene	0.037	0.034	0.040	92	85	74-131	7.88	30
1,4-Dichlorobenzene	0.035	0.032	0.040	87	81	67-125	7.65	30
Dichlorodifluoromethane	0.012	0.011	0.040	31	29	9-81	7.57	30
1,1-Dichloroethane	0.032	0.030	0.040	80	75	71-129	7.12	30
1,2-Dichloroethane (1,2-DCA)	0.030	0.028	0.040	74	69	66-122	7.23	30
1,1-Dichloroethene	0.032	0.030	0.040	79	74	59-134	6.99	30
cis-1,2-Dichloroethene	0.032	0.029	0.040	79	74	63-135	7.29	30
trans-1,2-Dichloroethene	0.033	0.031	0.040	82	76	54-140	7.07	30
1,2-Dichloropropane	0.029	0.027	0.040	74	68	65-127	7.31	30
1,3-Dichloropropane	0.033	0.031	0.040	83	77	62-135	8.15	30
2,2-Dichloropropane	0.034	0.031	0.040	84	78	69-145	7.76	30
1,1-Dichloropropene	0.032	0.030	0.040	80	75	66-138	6.79	30

(Cont.)



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 1/6/20  
**Date Analyzed:** 1/7/20  
**Instrument:** GC38  
**Matrix:** Soil  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**BatchID:** 191739  
**Extraction Method:** SW5035  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-191739

### QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	0.034	0.031	0.040	86	78	65-141	9.76	30
trans-1,3-Dichloropropene	0.031	0.029	0.040	79	71	66-126	9.64	30
Diisopropyl ether (DIPE)	0.027	0.025	0.040	66,F2	62,F2	70-119	7.24	30
Ethylbenzene	0.039	0.036	0.040	97	89	79-138	8.62	30
Ethyl tert-butyl ether (ETBE)	0.027	0.025	0.040	67,F2	62,F2	69-119	7.27	30
Freon 113	0.029	0.027	0.040	72	68	50-122	5.63	30
Hexachlorobutadiene	0.050	0.044	0.040	124	111	81-188	11.3	30
Hexachloroethane	0.040	0.036	0.040	99	89	78-155	10.6	30
2-Hexanone	0.023	0.021	0.040	58	53	48-107	8.99	30
Isopropylbenzene	0.048	0.043	0.040	121	108	71-169	11.0	30
4-Isopropyl toluene	0.048	0.043	0.040	120	109	88-172	10.0	30
Methyl-t-butyl ether (MTBE)	0.027	0.025	0.040	66	62,F2	63-121	6.55	30
Methylene chloride	0.030	0.028	0.040	76	71	62-133	6.67	30
4-Methyl-2-pentanone (MIBK)	0.022	0.020	0.040	54	49,F2	50-109	9.44	30
Naphthalene	0.016	0.015	0.040	39	38	29-69	4.46	30
n-Propyl benzene	0.049	0.044	0.040	122	110	81-181	9.83	30
Styrene	0.032	0.030	0.040	80	74	62-129	7.47	30
1,1,1,2-Tetrachloroethane	0.033	0.030	0.040	82	75	74-130	8.79	30
1,1,2,2-Tetrachloroethane	0.028	0.026	0.040	70	64	42-126	9.25	30
Tetrachloroethene	0.042	0.039	0.040	106	97	72-153	8.32	30
Toluene	0.037	0.034	0.040	93	85	70-140	9.70	30
1,2,3-Trichlorobenzene	0.020	0.019	0.040	50	48	33-87	4.12	30
1,2,4-Trichlorobenzene	0.027	0.026	0.040	68	64	46-109	6.96	30
1,1,1-Trichloroethane	0.034	0.032	0.040	85	79	72-135	7.52	30
1,1,2-Trichloroethane	0.030	0.028	0.040	76	70	60-130	8.36	30
Trichloroethene	0.032	0.030	0.040	80	75	57-146	7.21	30
Trichlorofluoromethane	0.031	0.029	0.040	77	71	52-130	7.14	30
1,2,3-Trichloropropane	0.015	0.014	0.020	76	69	65-130	9.52	20
1,2,4-Trimethylbenzene	0.041	0.037	0.040	104	93	83-156	10.6	30
1,3,5-Trimethylbenzene	0.044	0.040	0.040	111	100	86-167	10.1	30
Vinyl Chloride	0.011	0.010	0.020	56	53	33-141	6.99	20
m,p-Xylene	0.076	0.070	0.080	95	87	70-141	8.70	20
o-Xylene	0.036	0.032	0.040	89	81	74-130	9.84	20

(Cont.)



## Quality Control Report

<b>Client:</b> Roux Associates, Inc.	<b>WorkOrder:</b> 2001093
<b>Date Prepared:</b> 1/6/20	<b>BatchID:</b> 191739
<b>Date Analyzed:</b> 1/7/20	<b>Extraction Method:</b> SW5035
<b>Instrument:</b> GC38	<b>Analytical Method:</b> SW8260B
<b>Matrix:</b> Soil	<b>Unit:</b> mg/Kg
<b>Project:</b> 3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b> MB/LCS/LCSD-191739

### QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
<b>Surrogate Recovery</b>								
Dibromofluoromethane	0.23	0.24	0.25	91	97	85-129	6.06	30
Toluene-d8	0.27	0.27	0.25	108	107	98-136	1.03	30
4-BFB	0.024	0.024	0.025	97	96	83-137	1.18	30
Benzene-d6	0.17	0.17	0.20	87	85	67-135	2.19	20
Ethylbenzene-d10	0.21	0.21	0.20	107	104	81-152	3.38	20
1,2-DCB-d4	0.16	0.16	0.20	80	78	61-112	2.83	20



## Quality Control Report

<b>Client:</b>	Roux Associates, Inc.	<b>WorkOrder:</b>	2001093
<b>Date Prepared:</b>	1/6/20	<b>BatchID:</b>	191740
<b>Date Analyzed:</b>	1/7/20	<b>Extraction Method:</b>	SW5035
<b>Instrument:</b>	GC18	<b>Analytical Method:</b>	SW8260B
<b>Matrix:</b>	Soil	<b>Unit:</b>	mg/Kg
<b>Project:</b>	3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b>	MB/LCS/LCSD-191740

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	0.50	0.50	-	-	-
<b>Surrogate Recovery</b>						
Dibromofluoromethane	0.25			0.25	99	70-130
Benzene-D6	0.19			0.2	97	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(g) (C6-C12)	1.6	1.6	2	78	82	70-130	4.28	20
<b>Surrogate Recovery</b>								
Dibromofluoromethane	0.25	0.25	0.25	100	99	70-130	0.483	20
Benzene-D6	0.17	0.19	0.20	85	93	70-130	9.44	20



## Quality Control Report

<b>Client:</b> Roux Associates, Inc.	<b>WorkOrder:</b> 2001093
<b>Date Prepared:</b> 1/6/20	<b>BatchID:</b> 191740
<b>Date Analyzed:</b> 1/7/20	<b>Extraction Method:</b> SW5035
<b>Instrument:</b> GC18	<b>Analytical Method:</b> SW8260B
<b>Matrix:</b> Soil	<b>Unit:</b> mg/Kg
<b>Project:</b> 3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b> MB/LCS/LCSD-191740

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	0.50	0.50	-	-	-
<b>Surrogate Recovery</b>						
Dibromofluoromethane	0.25			0.25	99	70-130
Benzene-D6	0.19			0.2	97	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(g) (C6-C12)	1.6	1.6	2	78	82	70-130	4.28	20
<b>Surrogate Recovery</b>								
Dibromofluoromethane	0.25	0.25	0.25	100	99	70-130	0.483	20
Benzene-D6	0.17	0.19	0.20	85	93	70-130	9.44	20





1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 2001093 **A** ClientCode: RASF

- WaterTrax     WriteOn     EDF     Excel     EQuIS     Email     HardCopy     ThirdParty     J-flag  
 Detection Summary     Dry-Weight

**Report to:**

Taylor Barrett  
Roux Associates, Inc.  
555 12th Street, Suite 250  
Oakland, CA 94607  
(415) 967-6027    FAX: (415) 967-6001

Email: tbarrett@rouxinc.com  
cc/3rd Party: jgraber@rouxinc.com;  
PO:  
Project: 3374.0003S000; EBALDC-285 12th Street

**Bill to:**

Accounts Payable/Donna Andrusco  
Roux Associates, Inc.  
209 Shafter Street  
Islandia, NY 11749-5074  
Rouxap@rouxinc.com

**Requested TAT: 5 days;**

**Date Received: 01/03/2020**

**Date Logged: 01/03/2020**

**Date Add-On: 01/06/2020**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
2001093-011	RB-2-15.0	Soil	1/3/2020 09:55	<input type="checkbox"/>	A	A											

**Test Legend:**

1	8260B_SCAN-SIM_E	2	8260GAS_E	3		4	
5		6		7		8	
9		10		11		12	

**Project Manager: Susan Thompson**

**Prepared by: Nancy Palacios**

**Add-On Prepared By: Maria Venegas**

**Comments:** Susan is PM. VOCs+GAS added to 011 1/6/20 STAT.

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



### WORK ORDER SUMMARY

**Client Name:** ROUX ASSOCIATES, INC.

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Work Order:** 2001093

**Client Contact:** Taylor Barrett

**QC Level:** LEVEL 2

**Contact's Email:** tbarrett@rouxinc.com

**Comments:** Susan is PM. VOCs+GAS added to 011 1/6/20 STAT.

**Date Logged:** 1/3/2020

**Date Add-On:** 1/6/2020

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2001093-011A	RB-2-15.0	Soil	TPH(g) & 8260 Scan-Sim by P&T GCMS	3	16OZ GJ, Unpres + 2-Encores	1/3/2020 9:55	5 days		<input type="checkbox"/>	

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



**McCAMPBELL ANALYTICAL, INC.**  
 1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701  
 Telephone: (877) 252-9262 / Fax: (925) 252-9269  
 www.mccampbell.com      main@mccampbell.com

CHAIN OF CUSTODY RECORD										
Turn Around Time: 1 Day Rush	2 Day Rush	3 Day Rush	STD	Quote #						
J-Flag / MDL	ESL	Cleanup Approved	Bottle Order #	10111						
Delivery Format: PDF	GeoTracker EDF	EDD	Write On (DW)	EQuIS						

Report To: Taylor Barret and Josh Graber      Bill To: 3374.0003S000  
 Company: Roux Associates, Inc.  
 Email: tbarrett@rouxinc.com and jgrab@rouxinc.com  
 Alt Email: esiegel@rouxinc.com      Tele: 415-967-6015  
 Project Name: EBALDC - 285 12th Street      Project #: 3374.0003S000  
 Project Location: 285 12th Street, Oakland, CA      PO # 3374.0003S000  
 Sampler Signature:

**Analysis Requested**

SAMPLE ID Location / Field Point	Sampling		#Containers	Matrix	Preservative	Analysis Requested												HOLD							
	Date	Time				VOLs by 8260B	TPH-g by 8260B	TPH-l by 8260B	TPH-P by 8082	OCB by 8081	PATK by 8270	CAM 17 Metals 6020	Mercury by 7471B	Asbestos by CAP	U435										
RB-2-15.0	1/3/19	0955	3	SOIL	None	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
RB-2-20.0	1/3/19	1010				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
RB-3-0.0		1012				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
RB-3-3.0		1014				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
RB-3-5.0		1115										X	X												X*
RB-3-10.0		1120										X	X												X*
RB-3-15.0		1135																							X
RB-3-20.0		1155																							X
RB-4-0.0	1/2/19	1440				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
RB-4-3.0	1	1445				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X*

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

\* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.  
 Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
Taylor Barret / Roux	1/3/19	1300	Nancy Palacios	1/3/20	1440
LAP	1/3/20	1440			

Comments / Instructions  
 Please make sure the reporting limits are equal to or less than the residential ESLs  
 \* Hold some sample for remaining analyses

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other  
 Preservative Code: 1=4°C 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=ZnOAc/NaOH 7=None  
 Temp \_\_\_\_\_ °C      Initials \_\_\_\_\_

**Added 1/6/20 STAT. Okay to Run Pass HT per client**



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 2001093 **Amended:** 01/13/2020

**Revision:** 1

**Report Created for:** Roux Associates, Inc.

555 12th Street, Suite 250  
Oakland, CA 94607

**Project Contact:** Taylor Barrett

**Project P.O.:** 3374.0003S000

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Project Received:** 01/03/2020

Analytical Report reviewed & approved for release on 01/10/2020 by:

Yen Cao

Project Manager

*The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.*





## Glossary of Terms & Qualifier Definitions

**Client:** Roux Associates, Inc.  
**Project:** 3374.0003S000; EBALDC-285 12th Street  
**WorkOrder:** 2001093

### Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



## Glossary of Terms & Qualifier Definitions

**Client:** Roux Associates, Inc.  
**Project:** 3374.0003S000; EBALDC-285 12th Street  
**WorkOrder:** 2001093

### Analytical Qualifiers

B	Analyte detected in the associated Method Blank and in the sample.
H	Samples were analyzed out of hold time.
J	Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.
P	Agreement between quantitative confirmation results exceed method recommended limits.
S	Spike recovery outside accepted recovery limits.
a9	Reporting limit near, but not identical to, our standard reporting limit due to variable Encore/Solid sample weight.
c2	Surrogate recovery outside of the control limits due to matrix interference.
e2	Diesel range compounds are significant; no recognizable pattern.
e7	Oil range compounds are significant.
e8	Pattern resembles kerosene/kerosene range/jet fuel range.
h7	Copper (EPA 3660B) cleanup.
k10	CARB 435 Exception 1 - No asbestos detected. The limit of quantitation (LOQ) = 0.25%.

### Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F2	LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.
F3	The surrogate standard recovery and/or RPD is outside of acceptance limits.
F10	MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix.
F13	Indigenous sample results too high for a representative matrix spike analysis.





## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3550B/3640Am/3630Cm  
**Analytical Method:** SW8081A/8082  
**Unit:** mg/kg

### Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-0.0	2001093-001A	Soil	01/03/2020 07:45	GC23 01072011.d	191670

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Aldrin	ND		0.000036	0.00010	1	01/07/2020 19:29
a-BHC	ND		0.000025	0.00010	1	01/07/2020 19:29
b-BHC	ND		0.00025	0.00030	1	01/07/2020 19:29
d-BHC	ND		0.00013	0.00020	1	01/07/2020 19:29
g-BHC	ND		0.000066	0.00010	1	01/07/2020 19:29
Chlordane (Technical)	ND		0.00043	0.0025	1	01/07/2020 19:29
a-Chlordane	ND		0.000095	0.00010	1	01/07/2020 19:29
g-Chlordane	ND		0.000047	0.00010	1	01/07/2020 19:29
p,p-DDD	<b>0.00085</b>	P	0.000043	0.00010	1	01/07/2020 19:29
p,p-DDE	ND		0.000094	0.00010	1	01/07/2020 19:29
p,p-DDT	<b>0.000094</b>	JP	0.000092	0.00010	1	01/07/2020 19:29
Dieldrin	ND		0.000061	0.00010	1	01/07/2020 19:29
Endosulfan I	ND		0.000048	0.00010	1	01/07/2020 19:29
Endosulfan II	ND		0.000076	0.00010	1	01/07/2020 19:29
Endosulfan sulfate	ND		0.000078	0.00010	1	01/07/2020 19:29
Endrin	ND		0.000035	0.00010	1	01/07/2020 19:29
Endrin aldehyde	ND		0.000067	0.00010	1	01/07/2020 19:29
Endrin ketone	ND		0.000084	0.00010	1	01/07/2020 19:29
Heptachlor	ND		0.000040	0.00010	1	01/07/2020 19:29
Heptachlor epoxide	ND		0.000054	0.00010	1	01/07/2020 19:29
Hexachlorobenzene	ND		0.00011	0.0010	1	01/07/2020 19:29
Hexachlorocyclopentadiene	ND		0.00034	0.0020	1	01/07/2020 19:29
Methoxychlor	ND		0.00013	0.00020	1	01/07/2020 19:29
Toxaphene	ND		0.0034	0.0050	1	01/07/2020 19:29
Aroclor1016	ND		0.0020	0.0050	1	01/07/2020 19:29
Aroclor1221	ND		0.0022	0.0050	1	01/07/2020 19:29
Aroclor1232	ND		0.0022	0.0050	1	01/07/2020 19:29
Aroclor1242	ND		0.0022	0.0050	1	01/07/2020 19:29
Aroclor1248	ND		0.0022	0.0050	1	01/07/2020 19:29
Aroclor1254	ND		0.0022	0.0050	1	01/07/2020 19:29
Aroclor1260	ND		0.0022	0.0050	1	01/07/2020 19:29
PCBs, total	ND		N/A	0.0050	1	01/07/2020 19:29

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	100	20-145	01/07/2020 19:29

Analyst(s): LT

(Cont.)



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3550B/3640Am/3630Cm  
**Analytical Method:** SW8081A/8082  
**Unit:** mg/kg

### Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-0.0	2001093-007A	Soil	01/03/2020 08:45	GC23 01072012.d	191670

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Aldrin	ND		0.000036	0.00010	1	01/07/2020 19:47
a-BHC	ND		0.000025	0.00010	1	01/07/2020 19:47
b-BHC	ND		0.00025	0.00030	1	01/07/2020 19:47
d-BHC	ND		0.00013	0.00020	1	01/07/2020 19:47
g-BHC	ND		0.000066	0.00010	1	01/07/2020 19:47
Chlordane (Technical)	ND		0.00043	0.0025	1	01/07/2020 19:47
a-Chlordane	ND		0.000095	0.00010	1	01/07/2020 19:47
g-Chlordane	<b>0.000078</b>	JP	0.000047	0.00010	1	01/07/2020 19:47
p,p-DDD	ND		0.000043	0.00010	1	01/07/2020 19:47
p,p-DDE	<b>0.00017</b>		0.000094	0.00010	1	01/07/2020 19:47
p,p-DDT	<b>0.00012</b>		0.000092	0.00010	1	01/07/2020 19:47
Dieldrin	ND		0.000061	0.00010	1	01/07/2020 19:47
Endosulfan I	ND		0.000048	0.00010	1	01/07/2020 19:47
Endosulfan II	ND		0.000076	0.00010	1	01/07/2020 19:47
Endosulfan sulfate	ND		0.000078	0.00010	1	01/07/2020 19:47
Endrin	ND		0.000035	0.00010	1	01/07/2020 19:47
Endrin aldehyde	ND		0.000067	0.00010	1	01/07/2020 19:47
Endrin ketone	ND		0.000084	0.00010	1	01/07/2020 19:47
Heptachlor	ND		0.000040	0.00010	1	01/07/2020 19:47
Heptachlor epoxide	<b>0.00023</b>	P	0.000054	0.00010	1	01/07/2020 19:47
Hexachlorobenzene	ND		0.00011	0.0010	1	01/07/2020 19:47
Hexachlorocyclopentadiene	ND		0.00034	0.0020	1	01/07/2020 19:47
Methoxychlor	ND		0.00013	0.00020	1	01/07/2020 19:47
Toxaphene	ND		0.0034	0.0050	1	01/07/2020 19:47
Aroclor1016	ND		0.0020	0.0050	1	01/07/2020 19:47
Aroclor1221	ND		0.0022	0.0050	1	01/07/2020 19:47
Aroclor1232	ND		0.0022	0.0050	1	01/07/2020 19:47
Aroclor1242	ND		0.0022	0.0050	1	01/07/2020 19:47
Aroclor1248	ND		0.0022	0.0050	1	01/07/2020 19:47
Aroclor1254	ND		0.0022	0.0050	1	01/07/2020 19:47
Aroclor1260	ND		0.0022	0.0050	1	01/07/2020 19:47
PCBs, total	ND		N/A	0.0050	1	01/07/2020 19:47

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
Decachlorobiphenyl	147	S	20-145	01/07/2020 19:47

Analyst(s): LT

(Cont.)





## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3550B/3640Am/3630Cm  
**Analytical Method:** SW8081A/8082  
**Unit:** mg/kg

### Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-3.0	2001093-008A	Soil	01/03/2020 08:50	GC23 01072013.d	191670

Analytes	Result	MDL	RL	DF	Date Analyzed
Aldrin	ND	0.000036	0.00010	1	01/07/2020 20:05
a-BHC	ND	0.000025	0.00010	1	01/07/2020 20:05
b-BHC	ND	0.00025	0.00030	1	01/07/2020 20:05
d-BHC	ND	0.00013	0.00020	1	01/07/2020 20:05
g-BHC	ND	0.000066	0.00010	1	01/07/2020 20:05
Chlordane (Technical)	ND	0.00043	0.0025	1	01/07/2020 20:05
a-Chlordane	ND	0.000095	0.00010	1	01/07/2020 20:05
g-Chlordane	ND	0.000047	0.00010	1	01/07/2020 20:05
p,p-DDD	ND	0.000043	0.00010	1	01/07/2020 20:05
p,p-DDE	ND	0.000094	0.00010	1	01/07/2020 20:05
p,p-DDT	ND	0.000092	0.00010	1	01/07/2020 20:05
Dieldrin	ND	0.000061	0.00010	1	01/07/2020 20:05
Endosulfan I	ND	0.000048	0.00010	1	01/07/2020 20:05
Endosulfan II	ND	0.000076	0.00010	1	01/07/2020 20:05
Endosulfan sulfate	ND	0.000078	0.00010	1	01/07/2020 20:05
Endrin	ND	0.000035	0.00010	1	01/07/2020 20:05
Endrin aldehyde	ND	0.000067	0.00010	1	01/07/2020 20:05
Endrin ketone	ND	0.000084	0.00010	1	01/07/2020 20:05
Heptachlor	ND	0.000040	0.00010	1	01/07/2020 20:05
Heptachlor epoxide	ND	0.000054	0.00010	1	01/07/2020 20:05
Hexachlorobenzene	ND	0.00011	0.0010	1	01/07/2020 20:05
Hexachlorocyclopentadiene	ND	0.00034	0.0020	1	01/07/2020 20:05
Methoxychlor	ND	0.00013	0.00020	1	01/07/2020 20:05
Toxaphene	ND	0.0034	0.0050	1	01/07/2020 20:05
Aroclor1016	ND	0.0020	0.0050	1	01/07/2020 20:05
Aroclor1221	ND	0.0022	0.0050	1	01/07/2020 20:05
Aroclor1232	ND	0.0022	0.0050	1	01/07/2020 20:05
Aroclor1242	ND	0.0022	0.0050	1	01/07/2020 20:05
Aroclor1248	ND	0.0022	0.0050	1	01/07/2020 20:05
Aroclor1254	ND	0.0022	0.0050	1	01/07/2020 20:05
Aroclor1260	ND	0.0022	0.0050	1	01/07/2020 20:05
PCBs, total	ND	N/A	0.0050	1	01/07/2020 20:05

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	98	20-145	01/07/2020 20:05

Analyst(s): LT

(Cont.)



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3550B/3640Am/3630Cm  
**Analytical Method:** SW8081A/8082  
**Unit:** mg/kg

### Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-0.0	2001093-013A	Soil	01/03/2020 10:12	GC23 01092014.d	191670

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Aldrin	ND		0.000036	0.00010	1	01/09/2020 23:51
a-BHC	ND		0.000025	0.00010	1	01/09/2020 23:51
b-BHC	ND		0.00025	0.00030	1	01/09/2020 23:51
d-BHC	ND		0.00013	0.00020	1	01/09/2020 23:51
g-BHC	ND		0.000066	0.00010	1	01/09/2020 23:51
Chlordane (Technical)	ND		0.00043	0.0025	1	01/09/2020 23:51
a-Chlordane	ND		0.000095	0.00010	1	01/09/2020 23:51
g-Chlordane	<b>0.000083</b>	J	0.000047	0.00010	1	01/09/2020 23:51
p,p-DDD	ND		0.000043	0.00010	1	01/09/2020 23:51
p,p-DDE	<b>0.00010</b>		0.000094	0.00010	1	01/09/2020 23:51
p,p-DDT	<b>0.00020</b>		0.000092	0.00010	1	01/09/2020 23:51
Dieldrin	ND		0.000061	0.00010	1	01/09/2020 23:51
Endosulfan I	ND		0.000048	0.00010	1	01/09/2020 23:51
Endosulfan II	ND		0.000076	0.00010	1	01/09/2020 23:51
Endosulfan sulfate	ND		0.000078	0.00010	1	01/09/2020 23:51
Endrin	ND		0.000035	0.00010	1	01/09/2020 23:51
Endrin aldehyde	ND		0.000067	0.00010	1	01/09/2020 23:51
Endrin ketone	ND		0.000084	0.00010	1	01/09/2020 23:51
Heptachlor	ND		0.000040	0.00010	1	01/09/2020 23:51
Heptachlor epoxide	ND		0.000054	0.00010	1	01/09/2020 23:51
Hexachlorobenzene	ND		0.00011	0.0010	1	01/09/2020 23:51
Hexachlorocyclopentadiene	ND		0.00034	0.0020	1	01/09/2020 23:51
Methoxychlor	ND		0.00013	0.00020	1	01/09/2020 23:51
Toxaphene	ND		0.0034	0.0050	1	01/09/2020 23:51
Aroclor1016	ND		0.0020	0.0050	1	01/09/2020 23:51
Aroclor1221	ND		0.0022	0.0050	1	01/09/2020 23:51
Aroclor1232	ND		0.0022	0.0050	1	01/09/2020 23:51
Aroclor1242	ND		0.0022	0.0050	1	01/09/2020 23:51
Aroclor1248	ND		0.0022	0.0050	1	01/09/2020 23:51
Aroclor1254	ND		0.0022	0.0050	1	01/09/2020 23:51
Aroclor1260	ND		0.0022	0.0050	1	01/09/2020 23:51
PCBs, total	ND		N/A	0.0050	1	01/09/2020 23:51

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	81	20-145	01/09/2020 23:51

Analyst(s): LT

(Cont.)



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3550B/3640Am/3630Cm  
**Analytical Method:** SW8081A/8082  
**Unit:** mg/kg

### Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-0.0	2001093-019A	Soil	01/02/2020 14:40	GC23 01092015.d	191670

Analytes	Result	MDL	RL	DF	Date Analyzed
Aldrin	ND	0.000036	0.00010	1	01/10/2020 00:09
a-BHC	ND	0.000025	0.00010	1	01/10/2020 00:09
b-BHC	ND	0.00025	0.00030	1	01/10/2020 00:09
d-BHC	ND	0.00013	0.00020	1	01/10/2020 00:09
g-BHC	ND	0.000066	0.00010	1	01/10/2020 00:09
Chlordane (Technical)	ND	0.00043	0.0025	1	01/10/2020 00:09
a-Chlordane	ND	0.000095	0.00010	1	01/10/2020 00:09
g-Chlordane	ND	0.000047	0.00010	1	01/10/2020 00:09
p,p-DDD	ND	0.000043	0.00010	1	01/10/2020 00:09
p,p-DDE	ND	0.000094	0.00010	1	01/10/2020 00:09
p,p-DDT	<b>0.00023</b>	0.000092	0.00010	1	01/10/2020 00:09
Dieldrin	ND	0.000061	0.00010	1	01/10/2020 00:09
Endosulfan I	ND	0.000048	0.00010	1	01/10/2020 00:09
Endosulfan II	ND	0.000076	0.00010	1	01/10/2020 00:09
Endosulfan sulfate	ND	0.000078	0.00010	1	01/10/2020 00:09
Endrin	ND	0.000035	0.00010	1	01/10/2020 00:09
Endrin aldehyde	ND	0.000067	0.00010	1	01/10/2020 00:09
Endrin ketone	ND	0.000084	0.00010	1	01/10/2020 00:09
Heptachlor	ND	0.000040	0.00010	1	01/10/2020 00:09
Heptachlor epoxide	ND	0.000054	0.00010	1	01/10/2020 00:09
Hexachlorobenzene	ND	0.00011	0.0010	1	01/10/2020 00:09
Hexachlorocyclopentadiene	ND	0.00034	0.0020	1	01/10/2020 00:09
Methoxychlor	ND	0.00013	0.00020	1	01/10/2020 00:09
Toxaphene	ND	0.0034	0.0050	1	01/10/2020 00:09
Aroclor1016	ND	0.0020	0.0050	1	01/10/2020 00:09
Aroclor1221	ND	0.0022	0.0050	1	01/10/2020 00:09
Aroclor1232	ND	0.0022	0.0050	1	01/10/2020 00:09
Aroclor1242	ND	0.0022	0.0050	1	01/10/2020 00:09
Aroclor1248	ND	0.0022	0.0050	1	01/10/2020 00:09
Aroclor1254	ND	0.0022	0.0050	1	01/10/2020 00:09
Aroclor1260	ND	0.0022	0.0050	1	01/10/2020 00:09
PCBs, total	ND	N/A	0.0050	1	01/10/2020 00:09

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	72	20-145	01/10/2020 00:09

**Analyst(s):** LT **Analytical Comments:** h7

(Cont.)



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3550B/3640Am/3630Cm  
**Analytical Method:** SW8081A/8082  
**Unit:** mg/kg

### Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-5-0.0	2001093-024A	Soil	01/02/2020 15:30	GC23 01092016.d	191670

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Aldrin	ND		0.000036	0.00010	1	01/10/2020 00:28
a-BHC	ND		0.000025	0.00010	1	01/10/2020 00:28
b-BHC	ND		0.00025	0.00030	1	01/10/2020 00:28
d-BHC	ND		0.00013	0.00020	1	01/10/2020 00:28
g-BHC	ND		0.000066	0.00010	1	01/10/2020 00:28
Chlordane (Technical)	ND		0.00043	0.0025	1	01/10/2020 00:28
a-Chlordane	<b>0.00011</b>		0.000095	0.00010	1	01/10/2020 00:28
g-Chlordane	<b>0.00012</b>		0.000047	0.00010	1	01/10/2020 00:28
p,p-DDD	<b>0.000082</b>	J	0.000043	0.00010	1	01/10/2020 00:28
p,p-DDE	<b>0.00026</b>		0.000094	0.00010	1	01/10/2020 00:28
p,p-DDT	<b>0.00081</b>		0.000092	0.00010	1	01/10/2020 00:28
Dieldrin	ND		0.000061	0.00010	1	01/10/2020 00:28
Endosulfan I	ND		0.000048	0.00010	1	01/10/2020 00:28
Endosulfan II	ND		0.000076	0.00010	1	01/10/2020 00:28
Endosulfan sulfate	ND		0.000078	0.00010	1	01/10/2020 00:28
Endrin	ND		0.000035	0.00010	1	01/10/2020 00:28
Endrin aldehyde	ND		0.000067	0.00010	1	01/10/2020 00:28
Endrin ketone	ND		0.000084	0.00010	1	01/10/2020 00:28
Heptachlor	ND		0.000040	0.00010	1	01/10/2020 00:28
Heptachlor epoxide	ND		0.000054	0.00010	1	01/10/2020 00:28
Hexachlorobenzene	ND		0.00011	0.0010	1	01/10/2020 00:28
Hexachlorocyclopentadiene	ND		0.00034	0.0020	1	01/10/2020 00:28
Methoxychlor	ND		0.00013	0.00020	1	01/10/2020 00:28
Toxaphene	ND		0.0034	0.0050	1	01/10/2020 00:28
Aroclor1016	ND		0.0020	0.0050	1	01/10/2020 00:28
Aroclor1221	ND		0.0022	0.0050	1	01/10/2020 00:28
Aroclor1232	ND		0.0022	0.0050	1	01/10/2020 00:28
Aroclor1242	ND		0.0022	0.0050	1	01/10/2020 00:28
Aroclor1248	ND		0.0022	0.0050	1	01/10/2020 00:28
Aroclor1254	ND		0.0022	0.0050	1	01/10/2020 00:28
Aroclor1260	ND		0.0022	0.0050	1	01/10/2020 00:28
PCBs, total	ND		N/A	0.0050	1	01/10/2020 00:28

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	95	20-145	01/10/2020 00:28

Analyst(s): LT

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## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3550B/3640Am/3630Cm  
**Analytical Method:** SW8081A/8082  
**Unit:** mg/kg

### Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-5-3.0	2001093-025A	Soil	01/02/2020 15:30	GC23 01092017.d	191670

Analytes	Result	MDL	RL	DF	Date Analyzed
Aldrin	ND	0.000036	0.00010	1	01/10/2020 00:46
a-BHC	ND	0.000025	0.00010	1	01/10/2020 00:46
b-BHC	ND	0.00025	0.00030	1	01/10/2020 00:46
d-BHC	ND	0.00013	0.00020	1	01/10/2020 00:46
g-BHC	ND	0.000066	0.00010	1	01/10/2020 00:46
Chlordane (Technical)	ND	0.00043	0.0025	1	01/10/2020 00:46
a-Chlordane	<b>0.00018</b>	0.000095	0.00010	1	01/10/2020 00:46
g-Chlordane	<b>0.00022</b>	0.000047	0.00010	1	01/10/2020 00:46
p,p-DDD	<b>0.00043</b>	0.000043	0.00010	1	01/10/2020 00:46
p,p-DDE	<b>0.00016</b>	0.000094	0.00010	1	01/10/2020 00:46
p,p-DDT	<b>0.0022</b>	0.000092	0.00010	1	01/10/2020 00:46
Dieldrin	ND	0.000061	0.00010	1	01/10/2020 00:46
Endosulfan I	ND	0.000048	0.00010	1	01/10/2020 00:46
Endosulfan II	ND	0.000076	0.00010	1	01/10/2020 00:46
Endosulfan sulfate	ND	0.000078	0.00010	1	01/10/2020 00:46
Endrin	ND	0.000035	0.00010	1	01/10/2020 00:46
Endrin aldehyde	ND	0.000067	0.00010	1	01/10/2020 00:46
Endrin ketone	ND	0.000084	0.00010	1	01/10/2020 00:46
Heptachlor	ND	0.000040	0.00010	1	01/10/2020 00:46
Heptachlor epoxide	ND	0.000054	0.00010	1	01/10/2020 00:46
Hexachlorobenzene	ND	0.00011	0.0010	1	01/10/2020 00:46
Hexachlorocyclopentadiene	ND	0.00034	0.0020	1	01/10/2020 00:46
Methoxychlor	ND	0.00013	0.00020	1	01/10/2020 00:46
Toxaphene	ND	0.0034	0.0050	1	01/10/2020 00:46
Aroclor1016	ND	0.0020	0.0050	1	01/10/2020 00:46
Aroclor1221	ND	0.0022	0.0050	1	01/10/2020 00:46
Aroclor1232	ND	0.0022	0.0050	1	01/10/2020 00:46
Aroclor1242	ND	0.0022	0.0050	1	01/10/2020 00:46
Aroclor1248	ND	0.0022	0.0050	1	01/10/2020 00:46
Aroclor1254	ND	0.0022	0.0050	1	01/10/2020 00:46
Aroclor1260	ND	0.0022	0.0050	1	01/10/2020 00:46
PCBs, total	ND	N/A	0.0050	1	01/10/2020 00:46

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	83	20-145	01/10/2020 00:46

Analyst(s): LT



## Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
RB-1-0.0	2001093-001A	Soil	01/03/2020 07:45			GC16 01072010.D	191706
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed	
Acetone	ND		0.13	0.20	1	01/07/2020 13:53	
tert-Amyl methyl ether (TAME)	ND		0.0016	0.010	1	01/07/2020 13:53	
Benzene	ND		0.0020	0.010	1	01/07/2020 13:53	
Bromobenzene	ND		0.0024	0.010	1	01/07/2020 13:53	
Bromochloromethane	ND		0.0022	0.010	1	01/07/2020 13:53	
Bromodichloromethane	ND		0.00056	0.0020	1	01/07/2020 13:53	
Bromoform	<b>0.0046</b>	J	0.0034	0.010	1	01/07/2020 13:53	
Bromomethane	ND		0.0036	0.010	1	01/07/2020 13:53	
2-Butanone (MEK)	ND		0.022	0.040	1	01/07/2020 13:53	
t-Butyl alcohol (TBA)	ND		0.064	0.10	1	01/07/2020 13:53	
n-Butyl benzene	ND		0.0042	0.010	1	01/07/2020 13:53	
sec-Butyl benzene	ND		0.0034	0.010	1	01/07/2020 13:53	
tert-Butyl benzene	ND		0.0026	0.010	1	01/07/2020 13:53	
Carbon Disulfide	ND		0.0060	0.010	1	01/07/2020 13:53	
Carbon Tetrachloride	ND		0.0018	0.010	1	01/07/2020 13:53	
Chlorobenzene	ND		0.0017	0.010	1	01/07/2020 13:53	
Chloroethane	ND		0.0040	0.010	1	01/07/2020 13:53	
Chloroform	ND		0.00022	0.010	1	01/07/2020 13:53	
Chloromethane	ND		0.0052	0.010	1	01/07/2020 13:53	
2-Chlorotoluene	ND		0.0032	0.010	1	01/07/2020 13:53	
4-Chlorotoluene	ND		0.0024	0.010	1	01/07/2020 13:53	
Dibromochloromethane	ND		0.00038	0.010	1	01/07/2020 13:53	
1,2-Dibromo-3-chloropropane	ND		0.00032	0.00050	1	01/07/2020 13:53	
1,2-Dibromoethane (EDB)	ND		0.000068	0.00020	1	01/07/2020 13:53	
Dibromomethane	ND		0.0016	0.010	1	01/07/2020 13:53	
1,2-Dichlorobenzene	ND		0.0022	0.010	1	01/07/2020 13:53	
1,3-Dichlorobenzene	ND		0.0020	0.010	1	01/07/2020 13:53	
1,4-Dichlorobenzene	ND		0.0017	0.010	1	01/07/2020 13:53	
Dichlorodifluoromethane	ND		0.0026	0.010	1	01/07/2020 13:53	
1,1-Dichloroethane	ND		0.0018	0.010	1	01/07/2020 13:53	
1,2-Dichloroethane (1,2-DCA)	ND		0.00017	0.00050	1	01/07/2020 13:53	
1,1-Dichloroethene	ND		0.000056	0.00050	1	01/07/2020 13:53	
cis-1,2-Dichloroethene	ND		0.0017	0.010	1	01/07/2020 13:53	
trans-1,2-Dichloroethene	ND		0.0022	0.010	1	01/07/2020 13:53	
1,2-Dichloropropane	ND		0.0016	0.010	1	01/07/2020 13:53	
1,3-Dichloropropane	ND		0.0014	0.010	1	01/07/2020 13:53	
2,2-Dichloropropane	ND		0.0038	0.010	1	01/07/2020 13:53	

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## Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-0.0	2001093-001A	Soil	01/03/2020 07:45	GC16 01072010.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.0017	0.010	1	01/07/2020 13:53
cis-1,3-Dichloropropene	ND		0.0034	0.010	1	01/07/2020 13:53
trans-1,3-Dichloropropene	ND		0.0040	0.010	1	01/07/2020 13:53
Diisopropyl ether (DIPE)	ND		0.0022	0.010	1	01/07/2020 13:53
Ethylbenzene	ND		0.0019	0.010	1	01/07/2020 13:53
Ethyl tert-butyl ether (ETBE)	ND		0.0022	0.010	1	01/07/2020 13:53
Freon 113	ND		0.0022	0.010	1	01/07/2020 13:53
Hexachlorobutadiene	ND		0.0046	0.010	1	01/07/2020 13:53
Hexachloroethane	ND		0.0028	0.010	1	01/07/2020 13:53
2-Hexanone	ND		0.0062	0.010	1	01/07/2020 13:53
Isopropylbenzene	ND		0.0034	0.010	1	01/07/2020 13:53
4-Isopropyl toluene	ND		0.0030	0.010	1	01/07/2020 13:53
Methyl-t-butyl ether (MTBE)	ND		0.0034	0.010	1	01/07/2020 13:53
Methylene chloride	ND		0.016	0.020	1	01/07/2020 13:53
4-Methyl-2-pentanone (MIBK)	ND		0.0058	0.010	1	01/07/2020 13:53
Naphthalene	ND		0.0072	0.010	1	01/07/2020 13:53
n-Propyl benzene	ND		0.0032	0.010	1	01/07/2020 13:53
Styrene	ND		0.0054	0.010	1	01/07/2020 13:53
1,1,1,2-Tetrachloroethane	ND		0.0018	0.010	1	01/07/2020 13:53
1,1,2,2-Tetrachloroethane	ND		0.000087	0.00050	1	01/07/2020 13:53
Tetrachloroethene	ND		0.00040	0.0020	1	01/07/2020 13:53
Toluene	ND		0.0032	0.010	1	01/07/2020 13:53
1,2,3-Trichlorobenzene	ND		0.0074	0.010	1	01/07/2020 13:53
1,2,4-Trichlorobenzene	ND		0.0036	0.010	1	01/07/2020 13:53
1,1,1-Trichloroethane	ND		0.0017	0.010	1	01/07/2020 13:53
1,1,2-Trichloroethane	ND		0.0013	0.010	1	01/07/2020 13:53
Trichloroethene	ND		0.0032	0.010	1	01/07/2020 13:53
Trichlorofluoromethane	ND		0.0028	0.010	1	01/07/2020 13:53
1,2,3-Trichloropropane	ND		0.000084	0.00010	1	01/07/2020 13:53
1,2,4-Trimethylbenzene	ND		0.0030	0.010	1	01/07/2020 13:53
1,3,5-Trimethylbenzene	ND		0.0032	0.010	1	01/07/2020 13:53
Vinyl Chloride	ND		0.00011	0.00050	1	01/07/2020 13:53
m,p-Xylene	ND		0.0046	0.010	1	01/07/2020 13:53
o-Xylene	ND		0.0015	0.010	1	01/07/2020 13:53
Xylenes, Total	ND		N/A	0.010	1	01/07/2020 13:53

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# Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

## Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-0.0	2001093-001A	Soil	01/03/2020 07:45	GC16 01072010.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
Dibromofluoromethane	92			71-151		01/07/2020 13:53
Toluene-d8	113			90-150		01/07/2020 13:53
4-BFB	85			83-143		01/07/2020 13:53
Benzene-d6	86			71-118		01/07/2020 13:53
Ethylbenzene-d10	98			79-125		01/07/2020 13:53
1,2-DCB-d4	66			57-112		01/07/2020 13:53

Analyst(s): TK

Analytical Comments: a9





## Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-3.0	2001093-002A	Soil	01/03/2020 07:50	GC16 01072013.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND		0.067	0.099	1	01/07/2020 15:51
tert-Amyl methyl ether (TAME)	ND		0.00078	0.0050	1	01/07/2020 15:51
Benzene	ND		0.00097	0.0050	1	01/07/2020 15:51
Bromobenzene	ND		0.0012	0.0050	1	01/07/2020 15:51
Bromochloromethane	ND		0.0011	0.0050	1	01/07/2020 15:51
Bromodichloromethane	ND		0.00028	0.00099	1	01/07/2020 15:51
Bromoform	<b>0.0020</b>	JB	0.0017	0.0050	1	01/07/2020 15:51
Bromomethane	ND		0.0018	0.0050	1	01/07/2020 15:51
2-Butanone (MEK)	ND		0.011	0.020	1	01/07/2020 15:51
t-Butyl alcohol (TBA)	ND		0.032	0.050	1	01/07/2020 15:51
n-Butyl benzene	ND		0.0021	0.0050	1	01/07/2020 15:51
sec-Butyl benzene	ND		0.0017	0.0050	1	01/07/2020 15:51
tert-Butyl benzene	ND		0.0013	0.0050	1	01/07/2020 15:51
Carbon Disulfide	ND		0.0030	0.0050	1	01/07/2020 15:51
Carbon Tetrachloride	ND		0.00089	0.0050	1	01/07/2020 15:51
Chlorobenzene	ND		0.00085	0.0050	1	01/07/2020 15:51
Chloroethane	ND		0.0020	0.0050	1	01/07/2020 15:51
Chloroform	<b>0.00014</b>	J	0.00011	0.0050	1	01/07/2020 15:51
Chloromethane	ND		0.0026	0.0050	1	01/07/2020 15:51
2-Chlorotoluene	ND		0.0016	0.0050	1	01/07/2020 15:51
4-Chlorotoluene	ND		0.0012	0.0050	1	01/07/2020 15:51
Dibromochloromethane	ND		0.00019	0.0050	1	01/07/2020 15:51
1,2-Dibromo-3-chloropropane	ND		0.00016	0.00025	1	01/07/2020 15:51
1,2-Dibromoethane (EDB)	ND		0.000034	0.000099	1	01/07/2020 15:51
Dibromomethane	ND		0.00081	0.0050	1	01/07/2020 15:51
1,2-Dichlorobenzene	ND		0.0011	0.0050	1	01/07/2020 15:51
1,3-Dichlorobenzene	ND		0.00099	0.0050	1	01/07/2020 15:51
1,4-Dichlorobenzene	ND		0.00084	0.0050	1	01/07/2020 15:51
Dichlorodifluoromethane	ND		0.0013	0.0050	1	01/07/2020 15:51
1,1-Dichloroethane	ND		0.00087	0.0050	1	01/07/2020 15:51
1,2-Dichloroethane (1,2-DCA)	ND		0.000086	0.00025	1	01/07/2020 15:51
1,1-Dichloroethene	ND		0.000028	0.00025	1	01/07/2020 15:51
cis-1,2-Dichloroethene	ND		0.00083	0.0050	1	01/07/2020 15:51
trans-1,2-Dichloroethene	ND		0.0011	0.0050	1	01/07/2020 15:51
1,2-Dichloropropane	ND		0.00080	0.0050	1	01/07/2020 15:51
1,3-Dichloropropane	ND		0.00070	0.0050	1	01/07/2020 15:51
2,2-Dichloropropane	ND		0.0019	0.0050	1	01/07/2020 15:51

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# Analytical Report

**Client:** Roux Associates, Inc.

**Date Received:** 1/3/20 14:40

**Date Prepared:** 1/3/20

**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093

**Extraction Method:** SW5035

**Analytical Method:** SW8260B

**Unit:** mg/Kg

## Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-3.0	2001093-002A	Soil	01/03/2020 07:50	GC16 01072013.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.00083	0.0050	1	01/07/2020 15:51
cis-1,3-Dichloropropene	ND		0.0017	0.0050	1	01/07/2020 15:51
trans-1,3-Dichloropropene	ND		0.0020	0.0050	1	01/07/2020 15:51
Diisopropyl ether (DIPE)	ND		0.0011	0.0050	1	01/07/2020 15:51
Ethylbenzene	ND		0.00094	0.0050	1	01/07/2020 15:51
Ethyl tert-butyl ether (ETBE)	ND		0.0011	0.0050	1	01/07/2020 15:51
Freon 113	ND		0.0011	0.0050	1	01/07/2020 15:51
Hexachlorobutadiene	ND		0.0023	0.0050	1	01/07/2020 15:51
Hexachloroethane	ND		0.0014	0.0050	1	01/07/2020 15:51
2-Hexanone	ND		0.0031	0.0050	1	01/07/2020 15:51
Isopropylbenzene	ND		0.0017	0.0050	1	01/07/2020 15:51
4-Isopropyl toluene	ND		0.0015	0.0050	1	01/07/2020 15:51
Methyl-t-butyl ether (MTBE)	ND		0.0017	0.0050	1	01/07/2020 15:51
Methylene chloride	ND		0.0080	0.0099	1	01/07/2020 15:51
4-Methyl-2-pentanone (MIBK)	ND		0.0029	0.0050	1	01/07/2020 15:51
Naphthalene	ND		0.0036	0.0050	1	01/07/2020 15:51
n-Propyl benzene	ND		0.0016	0.0050	1	01/07/2020 15:51
Styrene	ND		0.0027	0.0050	1	01/07/2020 15:51
1,1,1,2-Tetrachloroethane	ND		0.00088	0.0050	1	01/07/2020 15:51
1,1,2,2-Tetrachloroethane	ND		0.000043	0.00025	1	01/07/2020 15:51
Tetrachloroethene	ND		0.00020	0.00099	1	01/07/2020 15:51
Toluene	ND		0.0016	0.0050	1	01/07/2020 15:51
1,2,3-Trichlorobenzene	ND		0.0037	0.0050	1	01/07/2020 15:51
1,2,4-Trichlorobenzene	ND		0.0018	0.0050	1	01/07/2020 15:51
1,1,1-Trichloroethane	ND		0.00083	0.0050	1	01/07/2020 15:51
1,1,2-Trichloroethane	ND		0.00067	0.0050	1	01/07/2020 15:51
Trichloroethene	ND		0.0016	0.0050	1	01/07/2020 15:51
Trichlorofluoromethane	ND		0.0014	0.0050	1	01/07/2020 15:51
1,2,3-Trichloropropane	ND		0.000042	0.000050	1	01/07/2020 15:51
1,2,4-Trimethylbenzene	ND		0.0015	0.0050	1	01/07/2020 15:51
1,3,5-Trimethylbenzene	ND		0.0016	0.0050	1	01/07/2020 15:51
Vinyl Chloride	ND		0.000053	0.00025	1	01/07/2020 15:51
m,p-Xylene	ND		0.0023	0.0050	1	01/07/2020 15:51
o-Xylene	ND		0.00074	0.0050	1	01/07/2020 15:51
Xylenes, Total	ND		N/A	0.0050	1	01/07/2020 15:51

(Cont.)



# Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

## Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-3.0	2001093-002A	Soil	01/03/2020 07:50	GC16 01072013.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
Dibromofluoromethane	93			71-151		01/07/2020 15:51
Toluene-d8	113			90-150		01/07/2020 15:51
4-BFB	87			83-143		01/07/2020 15:51
Benzene-d6	89			71-118		01/07/2020 15:51
Ethylbenzene-d10	100			79-125		01/07/2020 15:51
1,2-DCB-d4	67			57-112		01/07/2020 15:51

Analyst(s): KF

Analytical Comments: a9



## Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-5.0	2001093-003A	Soil	01/03/2020 08:32	GC16 01072014.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND		0.059	0.088	1	01/07/2020 16:30
tert-Amyl methyl ether (TAME)	ND		0.00068	0.0044	1	01/07/2020 16:30
Benzene	ND		0.00086	0.0044	1	01/07/2020 16:30
Bromobenzene	ND		0.0011	0.0044	1	01/07/2020 16:30
Bromochloromethane	ND		0.00096	0.0044	1	01/07/2020 16:30
Bromodichloromethane	ND		0.00025	0.00088	1	01/07/2020 16:30
Bromoform	<b>0.0019</b>	JB	0.0015	0.0044	1	01/07/2020 16:30
Bromomethane	ND		0.0016	0.0044	1	01/07/2020 16:30
2-Butanone (MEK)	ND		0.0096	0.018	1	01/07/2020 16:30
t-Butyl alcohol (TBA)	ND		0.028	0.044	1	01/07/2020 16:30
n-Butyl benzene	ND		0.0018	0.0044	1	01/07/2020 16:30
sec-Butyl benzene	ND		0.0015	0.0044	1	01/07/2020 16:30
tert-Butyl benzene	ND		0.0011	0.0044	1	01/07/2020 16:30
Carbon Disulfide	ND		0.0026	0.0044	1	01/07/2020 16:30
Carbon Tetrachloride	ND		0.00079	0.0044	1	01/07/2020 16:30
Chlorobenzene	ND		0.00075	0.0044	1	01/07/2020 16:30
Chloroethane	ND		0.0018	0.0044	1	01/07/2020 16:30
Chloroform	ND		0.000096	0.0044	1	01/07/2020 16:30
Chloromethane	ND		0.0023	0.0044	1	01/07/2020 16:30
2-Chlorotoluene	ND		0.0014	0.0044	1	01/07/2020 16:30
4-Chlorotoluene	ND		0.0011	0.0044	1	01/07/2020 16:30
Dibromochloromethane	ND		0.00017	0.0044	1	01/07/2020 16:30
1,2-Dibromo-3-chloropropane	ND		0.00014	0.00022	1	01/07/2020 16:30
1,2-Dibromoethane (EDB)	ND		0.000030	0.000088	1	01/07/2020 16:30
Dibromomethane	ND		0.00071	0.0044	1	01/07/2020 16:30
1,2-Dichlorobenzene	ND		0.00096	0.0044	1	01/07/2020 16:30
1,3-Dichlorobenzene	ND		0.00088	0.0044	1	01/07/2020 16:30
1,4-Dichlorobenzene	ND		0.00075	0.0044	1	01/07/2020 16:30
Dichlorodifluoromethane	ND		0.0011	0.0044	1	01/07/2020 16:30
1,1-Dichloroethane	ND		0.00077	0.0044	1	01/07/2020 16:30
1,2-Dichloroethane (1,2-DCA)	ND		0.000076	0.00022	1	01/07/2020 16:30
1,1-Dichloroethene	ND		0.000025	0.00022	1	01/07/2020 16:30
cis-1,2-Dichloroethene	ND		0.00074	0.0044	1	01/07/2020 16:30
trans-1,2-Dichloroethene	ND		0.00096	0.0044	1	01/07/2020 16:30
1,2-Dichloropropane	ND		0.00070	0.0044	1	01/07/2020 16:30
1,3-Dichloropropane	ND		0.00061	0.0044	1	01/07/2020 16:30
2,2-Dichloropropane	ND		0.0017	0.0044	1	01/07/2020 16:30

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## Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-5.0	2001093-003A	Soil	01/03/2020 08:32	GC16 01072014.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.00073	0.0044	1	01/07/2020 16:30
cis-1,3-Dichloropropene	ND		0.0015	0.0044	1	01/07/2020 16:30
trans-1,3-Dichloropropene	ND		0.0018	0.0044	1	01/07/2020 16:30
Diisopropyl ether (DIPE)	ND		0.00096	0.0044	1	01/07/2020 16:30
Ethylbenzene	ND		0.00083	0.0044	1	01/07/2020 16:30
Ethyl tert-butyl ether (ETBE)	ND		0.00096	0.0044	1	01/07/2020 16:30
Freon 113	ND		0.00096	0.0044	1	01/07/2020 16:30
Hexachlorobutadiene	ND		0.0020	0.0044	1	01/07/2020 16:30
Hexachloroethane	ND		0.0012	0.0044	1	01/07/2020 16:30
2-Hexanone	ND		0.0027	0.0044	1	01/07/2020 16:30
Isopropylbenzene	ND		0.0015	0.0044	1	01/07/2020 16:30
4-Isopropyl toluene	ND		0.0013	0.0044	1	01/07/2020 16:30
Methyl-t-butyl ether (MTBE)	ND		0.0015	0.0044	1	01/07/2020 16:30
Methylene chloride	ND		0.0070	0.0088	1	01/07/2020 16:30
4-Methyl-2-pentanone (MIBK)	ND		0.0025	0.0044	1	01/07/2020 16:30
Naphthalene	ND		0.0032	0.0044	1	01/07/2020 16:30
n-Propyl benzene	ND		0.0014	0.0044	1	01/07/2020 16:30
Styrene	ND		0.0024	0.0044	1	01/07/2020 16:30
1,1,1,2-Tetrachloroethane	ND		0.00078	0.0044	1	01/07/2020 16:30
1,1,2,2-Tetrachloroethane	ND		0.000038	0.00022	1	01/07/2020 16:30
Tetrachloroethene	ND		0.00018	0.00088	1	01/07/2020 16:30
Toluene	ND		0.0014	0.0044	1	01/07/2020 16:30
1,2,3-Trichlorobenzene	ND		0.0032	0.0044	1	01/07/2020 16:30
1,2,4-Trichlorobenzene	ND		0.0016	0.0044	1	01/07/2020 16:30
1,1,1-Trichloroethane	ND		0.00074	0.0044	1	01/07/2020 16:30
1,1,2-Trichloroethane	ND		0.00059	0.0044	1	01/07/2020 16:30
Trichloroethene	ND		0.0014	0.0044	1	01/07/2020 16:30
Trichlorofluoromethane	ND		0.0012	0.0044	1	01/07/2020 16:30
1,2,3-Trichloropropane	ND		0.000037	0.000044	1	01/07/2020 16:30
1,2,4-Trimethylbenzene	ND		0.0013	0.0044	1	01/07/2020 16:30
1,3,5-Trimethylbenzene	ND		0.0014	0.0044	1	01/07/2020 16:30
Vinyl Chloride	ND		0.000046	0.00022	1	01/07/2020 16:30
m,p-Xylene	ND		0.0020	0.0044	1	01/07/2020 16:30
o-Xylene	ND		0.00065	0.0044	1	01/07/2020 16:30
Xylenes, Total	ND		N/A	0.0044	1	01/07/2020 16:30

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# Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

## Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-5.0	2001093-003A	Soil	01/03/2020 08:32	GC16 01072014.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
Dibromofluoromethane	92			71-151		01/07/2020 16:30
Toluene-d8	114			90-150		01/07/2020 16:30
4-BFB	83			83-143		01/07/2020 16:30
Benzene-d6	86			71-118		01/07/2020 16:30
Ethylbenzene-d10	98			79-125		01/07/2020 16:30
1,2-DCB-d4	65			57-112		01/07/2020 16:30

Analyst(s): KF

Analytical Comments: a9



## Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-15.0	2001093-005A	Soil	01/03/2020 08:55	GC16 01072009.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND		0.13	0.20	1	01/07/2020 13:14
tert-Amyl methyl ether (TAME)	ND		0.0016	0.010	1	01/07/2020 13:14
Benzene	ND		0.0020	0.010	1	01/07/2020 13:14
Bromobenzene	ND		0.0024	0.010	1	01/07/2020 13:14
Bromochloromethane	ND		0.0022	0.010	1	01/07/2020 13:14
Bromodichloromethane	ND		0.00056	0.0020	1	01/07/2020 13:14
Bromoform	<b>0.0052</b>	J	0.0034	0.010	1	01/07/2020 13:14
Bromomethane	ND		0.0036	0.010	1	01/07/2020 13:14
2-Butanone (MEK)	ND		0.022	0.040	1	01/07/2020 13:14
t-Butyl alcohol (TBA)	ND		0.064	0.10	1	01/07/2020 13:14
n-Butyl benzene	ND		0.0042	0.010	1	01/07/2020 13:14
sec-Butyl benzene	ND		0.0034	0.010	1	01/07/2020 13:14
tert-Butyl benzene	ND		0.0026	0.010	1	01/07/2020 13:14
Carbon Disulfide	ND		0.0060	0.010	1	01/07/2020 13:14
Carbon Tetrachloride	ND		0.0018	0.010	1	01/07/2020 13:14
Chlorobenzene	ND		0.0017	0.010	1	01/07/2020 13:14
Chloroethane	ND		0.0040	0.010	1	01/07/2020 13:14
Chloroform	ND		0.00022	0.010	1	01/07/2020 13:14
Chloromethane	ND		0.0052	0.010	1	01/07/2020 13:14
2-Chlorotoluene	ND		0.0032	0.010	1	01/07/2020 13:14
4-Chlorotoluene	ND		0.0024	0.010	1	01/07/2020 13:14
Dibromochloromethane	ND		0.00038	0.010	1	01/07/2020 13:14
1,2-Dibromo-3-chloropropane	ND		0.00032	0.00050	1	01/07/2020 13:14
1,2-Dibromoethane (EDB)	ND		0.000068	0.00020	1	01/07/2020 13:14
Dibromomethane	ND		0.0016	0.010	1	01/07/2020 13:14
1,2-Dichlorobenzene	ND		0.0022	0.010	1	01/07/2020 13:14
1,3-Dichlorobenzene	ND		0.0020	0.010	1	01/07/2020 13:14
1,4-Dichlorobenzene	ND		0.0017	0.010	1	01/07/2020 13:14
Dichlorodifluoromethane	ND		0.0026	0.010	1	01/07/2020 13:14
1,1-Dichloroethane	ND		0.0018	0.010	1	01/07/2020 13:14
1,2-Dichloroethane (1,2-DCA)	ND		0.00017	0.00050	1	01/07/2020 13:14
1,1-Dichloroethene	ND		0.000056	0.00050	1	01/07/2020 13:14
cis-1,2-Dichloroethene	ND		0.0017	0.010	1	01/07/2020 13:14
trans-1,2-Dichloroethene	ND		0.0022	0.010	1	01/07/2020 13:14
1,2-Dichloropropane	ND		0.0016	0.010	1	01/07/2020 13:14
1,3-Dichloropropane	ND		0.0014	0.010	1	01/07/2020 13:14
2,2-Dichloropropane	ND		0.0038	0.010	1	01/07/2020 13:14

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## Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-15.0	2001093-005A	Soil	01/03/2020 08:55	GC16 01072009.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.0017	0.010	1	01/07/2020 13:14
cis-1,3-Dichloropropene	ND		0.0034	0.010	1	01/07/2020 13:14
trans-1,3-Dichloropropene	ND		0.0040	0.010	1	01/07/2020 13:14
Diisopropyl ether (DIPE)	ND		0.0022	0.010	1	01/07/2020 13:14
Ethylbenzene	ND		0.0019	0.010	1	01/07/2020 13:14
Ethyl tert-butyl ether (ETBE)	ND		0.0022	0.010	1	01/07/2020 13:14
Freon 113	ND		0.0022	0.010	1	01/07/2020 13:14
Hexachlorobutadiene	ND		0.0046	0.010	1	01/07/2020 13:14
Hexachloroethane	ND		0.0028	0.010	1	01/07/2020 13:14
2-Hexanone	ND		0.0062	0.010	1	01/07/2020 13:14
Isopropylbenzene	ND		0.0034	0.010	1	01/07/2020 13:14
4-Isopropyl toluene	ND		0.0030	0.010	1	01/07/2020 13:14
Methyl-t-butyl ether (MTBE)	ND		0.0034	0.010	1	01/07/2020 13:14
Methylene chloride	ND		0.016	0.020	1	01/07/2020 13:14
4-Methyl-2-pentanone (MIBK)	ND		0.0058	0.010	1	01/07/2020 13:14
Naphthalene	ND		0.0072	0.010	1	01/07/2020 13:14
n-Propyl benzene	ND		0.0032	0.010	1	01/07/2020 13:14
Styrene	ND		0.0054	0.010	1	01/07/2020 13:14
1,1,1,2-Tetrachloroethane	ND		0.0018	0.010	1	01/07/2020 13:14
1,1,2,2-Tetrachloroethane	ND		0.000087	0.00050	1	01/07/2020 13:14
Tetrachloroethene	ND		0.00040	0.0020	1	01/07/2020 13:14
Toluene	ND		0.0032	0.010	1	01/07/2020 13:14
1,2,3-Trichlorobenzene	ND		0.0074	0.010	1	01/07/2020 13:14
1,2,4-Trichlorobenzene	ND		0.0036	0.010	1	01/07/2020 13:14
1,1,1-Trichloroethane	ND		0.0017	0.010	1	01/07/2020 13:14
1,1,2-Trichloroethane	ND		0.0013	0.010	1	01/07/2020 13:14
Trichloroethene	ND		0.0032	0.010	1	01/07/2020 13:14
Trichlorofluoromethane	ND		0.0028	0.010	1	01/07/2020 13:14
1,2,3-Trichloropropane	ND		0.000084	0.00010	1	01/07/2020 13:14
1,2,4-Trimethylbenzene	ND		0.0030	0.010	1	01/07/2020 13:14
1,3,5-Trimethylbenzene	ND		0.0032	0.010	1	01/07/2020 13:14
Vinyl Chloride	ND		0.00011	0.00050	1	01/07/2020 13:14
m,p-Xylene	ND		0.0046	0.010	1	01/07/2020 13:14
o-Xylene	ND		0.0015	0.010	1	01/07/2020 13:14
Xylenes, Total	ND		N/A	0.010	1	01/07/2020 13:14

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# Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

## Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-15.0	2001093-005A	Soil	01/03/2020 08:55	GC16 01072009.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
Dibromofluoromethane	92			71-151		01/07/2020 13:14
Toluene-d8	111			90-150		01/07/2020 13:14
4-BFB	88			83-143		01/07/2020 13:14
Benzene-d6	94			71-118		01/07/2020 13:14
Ethylbenzene-d10	109			79-125		01/07/2020 13:14
1,2-DCB-d4	69			57-112		01/07/2020 13:14

Analyst(s): TK

Analytical Comments: a9



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW5035  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-0.0	2001093-007A	Soil	01/03/2020 08:45	GC16 01072015.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND		0.068	0.10	1	01/07/2020 17:10
tert-Amyl methyl ether (TAME)	ND		0.00079	0.0050	1	01/07/2020 17:10
Benzene	ND		0.00099	0.0050	1	01/07/2020 17:10
Bromobenzene	ND		0.0012	0.0050	1	01/07/2020 17:10
Bromochloromethane	ND		0.0011	0.0050	1	01/07/2020 17:10
Bromodichloromethane	ND		0.00028	0.0010	1	01/07/2020 17:10
Bromoform	<b>0.0020</b>	JB	0.0017	0.0050	1	01/07/2020 17:10
Bromomethane	ND		0.0018	0.0050	1	01/07/2020 17:10
2-Butanone (MEK)	ND		0.011	0.020	1	01/07/2020 17:10
t-Butyl alcohol (TBA)	ND		0.032	0.050	1	01/07/2020 17:10
n-Butyl benzene	ND		0.0021	0.0050	1	01/07/2020 17:10
sec-Butyl benzene	ND		0.0017	0.0050	1	01/07/2020 17:10
tert-Butyl benzene	ND		0.0013	0.0050	1	01/07/2020 17:10
Carbon Disulfide	<b>0.0039</b>	J	0.0030	0.0050	1	01/07/2020 17:10
Carbon Tetrachloride	ND		0.00091	0.0050	1	01/07/2020 17:10
Chlorobenzene	ND		0.00087	0.0050	1	01/07/2020 17:10
Chloroethane	ND		0.0020	0.0050	1	01/07/2020 17:10
Chloroform	<b>0.00015</b>	J	0.00011	0.0050	1	01/07/2020 17:10
Chloromethane	ND		0.0026	0.0050	1	01/07/2020 17:10
2-Chlorotoluene	ND		0.0016	0.0050	1	01/07/2020 17:10
4-Chlorotoluene	ND		0.0012	0.0050	1	01/07/2020 17:10
Dibromochloromethane	ND		0.00019	0.0050	1	01/07/2020 17:10
1,2-Dibromo-3-chloropropane	ND		0.00016	0.00025	1	01/07/2020 17:10
1,2-Dibromoethane (EDB)	ND		0.000034	0.00010	1	01/07/2020 17:10
Dibromomethane	ND		0.00082	0.0050	1	01/07/2020 17:10
1,2-Dichlorobenzene	ND		0.0011	0.0050	1	01/07/2020 17:10
1,3-Dichlorobenzene	ND		0.0010	0.0050	1	01/07/2020 17:10
1,4-Dichlorobenzene	ND		0.00086	0.0050	1	01/07/2020 17:10
Dichlorodifluoromethane	ND		0.0013	0.0050	1	01/07/2020 17:10
1,1-Dichloroethane	ND		0.00089	0.0050	1	01/07/2020 17:10
1,2-Dichloroethane (1,2-DCA)	ND		0.000088	0.00025	1	01/07/2020 17:10
1,1-Dichloroethene	ND		0.000028	0.00025	1	01/07/2020 17:10
cis-1,2-Dichloroethene	ND		0.00085	0.0050	1	01/07/2020 17:10
trans-1,2-Dichloroethene	ND		0.0011	0.0050	1	01/07/2020 17:10
1,2-Dichloropropane	ND		0.00081	0.0050	1	01/07/2020 17:10
1,3-Dichloropropane	ND		0.00071	0.0050	1	01/07/2020 17:10
2,2-Dichloropropane	ND		0.0019	0.0050	1	01/07/2020 17:10

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## Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-0.0	2001093-007A	Soil	01/03/2020 08:45	GC16 01072015.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.00084	0.0050	1	01/07/2020 17:10
cis-1,3-Dichloropropene	ND		0.0017	0.0050	1	01/07/2020 17:10
trans-1,3-Dichloropropene	ND		0.0020	0.0050	1	01/07/2020 17:10
Diisopropyl ether (DIPE)	ND		0.0011	0.0050	1	01/07/2020 17:10
Ethylbenzene	ND		0.00096	0.0050	1	01/07/2020 17:10
Ethyl tert-butyl ether (ETBE)	ND		0.0011	0.0050	1	01/07/2020 17:10
Freon 113	ND		0.0011	0.0050	1	01/07/2020 17:10
Hexachlorobutadiene	ND		0.0023	0.0050	1	01/07/2020 17:10
Hexachloroethane	ND		0.0014	0.0050	1	01/07/2020 17:10
2-Hexanone	ND		0.0031	0.0050	1	01/07/2020 17:10
Isopropylbenzene	ND		0.0017	0.0050	1	01/07/2020 17:10
4-Isopropyl toluene	ND		0.0015	0.0050	1	01/07/2020 17:10
Methyl-t-butyl ether (MTBE)	ND		0.0017	0.0050	1	01/07/2020 17:10
Methylene chloride	ND		0.0081	0.010	1	01/07/2020 17:10
4-Methyl-2-pentanone (MIBK)	ND		0.0029	0.0050	1	01/07/2020 17:10
Naphthalene	ND		0.0036	0.0050	1	01/07/2020 17:10
n-Propyl benzene	ND		0.0016	0.0050	1	01/07/2020 17:10
Styrene	ND		0.0027	0.0050	1	01/07/2020 17:10
1,1,1,2-Tetrachloroethane	ND		0.00090	0.0050	1	01/07/2020 17:10
1,1,2,2-Tetrachloroethane	ND		0.000044	0.00025	1	01/07/2020 17:10
Tetrachloroethene	ND		0.00020	0.0010	1	01/07/2020 17:10
Toluene	ND		0.0016	0.0050	1	01/07/2020 17:10
1,2,3-Trichlorobenzene	ND		0.0037	0.0050	1	01/07/2020 17:10
1,2,4-Trichlorobenzene	ND		0.0018	0.0050	1	01/07/2020 17:10
1,1,1-Trichloroethane	ND		0.00085	0.0050	1	01/07/2020 17:10
1,1,2-Trichloroethane	ND		0.00068	0.0050	1	01/07/2020 17:10
Trichloroethene	ND		0.0016	0.0050	1	01/07/2020 17:10
Trichlorofluoromethane	ND		0.0014	0.0050	1	01/07/2020 17:10
1,2,3-Trichloropropane	ND		0.000042	0.000050	1	01/07/2020 17:10
1,2,4-Trimethylbenzene	<b>0.0086</b>		0.0015	0.0050	1	01/07/2020 17:10
1,3,5-Trimethylbenzene	<b>0.0044</b>	J	0.0016	0.0050	1	01/07/2020 17:10
Vinyl Chloride	ND		0.000053	0.00025	1	01/07/2020 17:10
m,p-Xylene	ND		0.0023	0.0050	1	01/07/2020 17:10
o-Xylene	ND		0.00075	0.0050	1	01/07/2020 17:10
Xylenes, Total	ND		N/A	0.0050	1	01/07/2020 17:10

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# Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

## Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-0.0	2001093-007A	Soil	01/03/2020 08:45	GC16 01072015.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
Dibromofluoromethane	93			71-151		01/07/2020 17:10
Toluene-d8	111			90-150		01/07/2020 17:10
4-BFB	86			83-143		01/07/2020 17:10
Benzene-d6	83			71-118		01/07/2020 17:10
Ethylbenzene-d10	95			79-125		01/07/2020 17:10
1,2-DCB-d4	63			57-112		01/07/2020 17:10

Analyst(s): KF

Analytical Comments: a9



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW5035  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-3.0	2001093-008A	Soil	01/03/2020 08:50	GC16 01072016.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND		0.068	0.10	1	01/07/2020 17:49
tert-Amyl methyl ether (TAME)	ND		0.00080	0.0051	1	01/07/2020 17:49
Benzene	ND		0.0010	0.0051	1	01/07/2020 17:49
Bromobenzene	ND		0.0012	0.0051	1	01/07/2020 17:49
Bromochloromethane	ND		0.0011	0.0051	1	01/07/2020 17:49
Bromodichloromethane	ND		0.00029	0.0010	1	01/07/2020 17:49
Bromoform	<b>0.0026</b>	JB	0.0017	0.0051	1	01/07/2020 17:49
Bromomethane	ND		0.0018	0.0051	1	01/07/2020 17:49
2-Butanone (MEK)	ND		0.011	0.020	1	01/07/2020 17:49
t-Butyl alcohol (TBA)	ND		0.033	0.051	1	01/07/2020 17:49
n-Butyl benzene	ND		0.0021	0.0051	1	01/07/2020 17:49
sec-Butyl benzene	ND		0.0017	0.0051	1	01/07/2020 17:49
tert-Butyl benzene	ND		0.0013	0.0051	1	01/07/2020 17:49
Carbon Disulfide	<b>0.013</b>		0.0031	0.0051	1	01/07/2020 17:49
Carbon Tetrachloride	ND		0.00092	0.0051	1	01/07/2020 17:49
Chlorobenzene	ND		0.00088	0.0051	1	01/07/2020 17:49
Chloroethane	ND		0.0020	0.0051	1	01/07/2020 17:49
Chloroform	<b>0.00012</b>	J	0.00011	0.0051	1	01/07/2020 17:49
Chloromethane	ND		0.0027	0.0051	1	01/07/2020 17:49
2-Chlorotoluene	ND		0.0016	0.0051	1	01/07/2020 17:49
4-Chlorotoluene	ND		0.0012	0.0051	1	01/07/2020 17:49
Dibromochloromethane	ND		0.00019	0.0051	1	01/07/2020 17:49
1,2-Dibromo-3-chloropropane	ND		0.00016	0.00026	1	01/07/2020 17:49
1,2-Dibromoethane (EDB)	ND		0.000035	0.00010	1	01/07/2020 17:49
Dibromomethane	ND		0.00083	0.0051	1	01/07/2020 17:49
1,2-Dichlorobenzene	ND		0.0011	0.0051	1	01/07/2020 17:49
1,3-Dichlorobenzene	ND		0.0010	0.0051	1	01/07/2020 17:49
1,4-Dichlorobenzene	ND		0.00087	0.0051	1	01/07/2020 17:49
Dichlorodifluoromethane	ND		0.0013	0.0051	1	01/07/2020 17:49
1,1-Dichloroethane	ND		0.00090	0.0051	1	01/07/2020 17:49
1,2-Dichloroethane (1,2-DCA)	ND		0.000089	0.00026	1	01/07/2020 17:49
1,1-Dichloroethene	ND		0.000029	0.00026	1	01/07/2020 17:49
cis-1,2-Dichloroethene	ND		0.00086	0.0051	1	01/07/2020 17:49
trans-1,2-Dichloroethene	ND		0.0011	0.0051	1	01/07/2020 17:49
1,2-Dichloropropane	ND		0.00082	0.0051	1	01/07/2020 17:49
1,3-Dichloropropane	ND		0.00071	0.0051	1	01/07/2020 17:49
2,2-Dichloropropane	ND		0.0019	0.0051	1	01/07/2020 17:49

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## Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-3.0	2001093-008A	Soil	01/03/2020 08:50	GC16 01072016.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.00085	0.0051	1	01/07/2020 17:49
cis-1,3-Dichloropropene	ND		0.0017	0.0051	1	01/07/2020 17:49
trans-1,3-Dichloropropene	ND		0.0020	0.0051	1	01/07/2020 17:49
Diisopropyl ether (DIPE)	ND		0.0011	0.0051	1	01/07/2020 17:49
Ethylbenzene	ND		0.00097	0.0051	1	01/07/2020 17:49
Ethyl tert-butyl ether (ETBE)	ND		0.0011	0.0051	1	01/07/2020 17:49
Freon 113	ND		0.0011	0.0051	1	01/07/2020 17:49
Hexachlorobutadiene	ND		0.0023	0.0051	1	01/07/2020 17:49
Hexachloroethane	ND		0.0014	0.0051	1	01/07/2020 17:49
2-Hexanone	ND		0.0032	0.0051	1	01/07/2020 17:49
Isopropylbenzene	ND		0.0017	0.0051	1	01/07/2020 17:49
4-Isopropyl toluene	ND		0.0015	0.0051	1	01/07/2020 17:49
Methyl-t-butyl ether (MTBE)	ND		0.0017	0.0051	1	01/07/2020 17:49
Methylene chloride	ND		0.0082	0.010	1	01/07/2020 17:49
4-Methyl-2-pentanone (MIBK)	ND		0.0030	0.0051	1	01/07/2020 17:49
Naphthalene	ND		0.0037	0.0051	1	01/07/2020 17:49
n-Propyl benzene	ND		0.0016	0.0051	1	01/07/2020 17:49
Styrene	ND		0.0028	0.0051	1	01/07/2020 17:49
1,1,1,2-Tetrachloroethane	ND		0.00091	0.0051	1	01/07/2020 17:49
1,1,2,2-Tetrachloroethane	ND		0.000044	0.00026	1	01/07/2020 17:49
Tetrachloroethene	ND		0.00020	0.0010	1	01/07/2020 17:49
Toluene	ND		0.0016	0.0051	1	01/07/2020 17:49
1,2,3-Trichlorobenzene	ND		0.0038	0.0051	1	01/07/2020 17:49
1,2,4-Trichlorobenzene	ND		0.0018	0.0051	1	01/07/2020 17:49
1,1,1-Trichloroethane	ND		0.00086	0.0051	1	01/07/2020 17:49
1,1,2-Trichloroethane	ND		0.00068	0.0051	1	01/07/2020 17:49
Trichloroethene	ND		0.0016	0.0051	1	01/07/2020 17:49
Trichlorofluoromethane	ND		0.0014	0.0051	1	01/07/2020 17:49
1,2,3-Trichloropropane	ND		0.000043	0.000051	1	01/07/2020 17:49
1,2,4-Trimethylbenzene	ND		0.0015	0.0051	1	01/07/2020 17:49
1,3,5-Trimethylbenzene	ND		0.0016	0.0051	1	01/07/2020 17:49
Vinyl Chloride	ND		0.000054	0.00026	1	01/07/2020 17:49
m,p-Xylene	ND		0.0023	0.0051	1	01/07/2020 17:49
o-Xylene	ND		0.00076	0.0051	1	01/07/2020 17:49
Xylenes, Total	ND		N/A	0.0051	1	01/07/2020 17:49

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# Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

## Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-3.0	2001093-008A	Soil	01/03/2020 08:50	GC16 01072016.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
Dibromofluoromethane	95			71-151		01/07/2020 17:49
Toluene-d8	114			90-150		01/07/2020 17:49
4-BFB	86			83-143		01/07/2020 17:49
Benzene-d6	88			71-118		01/07/2020 17:49
Ethylbenzene-d10	97			79-125		01/07/2020 17:49
1,2-DCB-d4	68			57-112		01/07/2020 17:49

Analyst(s): KF

Analytical Comments: a9



## Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-0.0	2001093-013A	Soil	01/03/2020 10:12	GC16 01072022.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND		0.063	0.093	1	01/07/2020 21:55
tert-Amyl methyl ether (TAME)	ND		0.00073	0.0047	1	01/07/2020 21:55
Benzene	ND		0.00092	0.0047	1	01/07/2020 21:55
Bromobenzene	ND		0.0011	0.0047	1	01/07/2020 21:55
Bromochloromethane	ND		0.0010	0.0047	1	01/07/2020 21:55
Bromodichloromethane	ND		0.00026	0.00093	1	01/07/2020 21:55
Bromoform	<b>0.0019</b>	JB	0.0016	0.0047	1	01/07/2020 21:55
Bromomethane	ND		0.0017	0.0047	1	01/07/2020 21:55
2-Butanone (MEK)	ND		0.010	0.019	1	01/07/2020 21:55
t-Butyl alcohol (TBA)	ND		0.030	0.047	1	01/07/2020 21:55
n-Butyl benzene	ND		0.0020	0.0047	1	01/07/2020 21:55
sec-Butyl benzene	ND		0.0016	0.0047	1	01/07/2020 21:55
tert-Butyl benzene	ND		0.0012	0.0047	1	01/07/2020 21:55
Carbon Disulfide	<b>0.0046</b>	J	0.0028	0.0047	1	01/07/2020 21:55
Carbon Tetrachloride	ND		0.00084	0.0047	1	01/07/2020 21:55
Chlorobenzene	ND		0.00080	0.0047	1	01/07/2020 21:55
Chloroethane	ND		0.0019	0.0047	1	01/07/2020 21:55
Chloroform	<b>0.00013</b>	J	0.00010	0.0047	1	01/07/2020 21:55
Chloromethane	ND		0.0024	0.0047	1	01/07/2020 21:55
2-Chlorotoluene	ND		0.0015	0.0047	1	01/07/2020 21:55
4-Chlorotoluene	ND		0.0011	0.0047	1	01/07/2020 21:55
Dibromochloromethane	ND		0.00018	0.0047	1	01/07/2020 21:55
1,2-Dibromo-3-chloropropane	ND		0.00015	0.00023	1	01/07/2020 21:55
1,2-Dibromoethane (EDB)	ND		0.000032	0.000093	1	01/07/2020 21:55
Dibromomethane	ND		0.00076	0.0047	1	01/07/2020 21:55
1,2-Dichlorobenzene	ND		0.0010	0.0047	1	01/07/2020 21:55
1,3-Dichlorobenzene	ND		0.00093	0.0047	1	01/07/2020 21:55
1,4-Dichlorobenzene	ND		0.00079	0.0047	1	01/07/2020 21:55
Dichlorodifluoromethane	ND		0.0012	0.0047	1	01/07/2020 21:55
1,1-Dichloroethane	ND		0.00082	0.0047	1	01/07/2020 21:55
1,2-Dichloroethane (1,2-DCA)	ND		0.000081	0.00023	1	01/07/2020 21:55
1,1-Dichloroethene	ND		0.000026	0.00023	1	01/07/2020 21:55
cis-1,2-Dichloroethene	ND		0.00078	0.0047	1	01/07/2020 21:55
trans-1,2-Dichloroethene	ND		0.0010	0.0047	1	01/07/2020 21:55
1,2-Dichloropropane	ND		0.00075	0.0047	1	01/07/2020 21:55
1,3-Dichloropropane	ND		0.00065	0.0047	1	01/07/2020 21:55
2,2-Dichloropropane	ND		0.0018	0.0047	1	01/07/2020 21:55

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## Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-0.0	2001093-013A	Soil	01/03/2020 10:12	GC16 01072022.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.00077	0.0047	1	01/07/2020 21:55
cis-1,3-Dichloropropene	ND		0.0016	0.0047	1	01/07/2020 21:55
trans-1,3-Dichloropropene	ND		0.0019	0.0047	1	01/07/2020 21:55
Diisopropyl ether (DIPE)	ND		0.0010	0.0047	1	01/07/2020 21:55
Ethylbenzene	ND		0.00089	0.0047	1	01/07/2020 21:55
Ethyl tert-butyl ether (ETBE)	ND		0.0010	0.0047	1	01/07/2020 21:55
Freon 113	ND		0.0010	0.0047	1	01/07/2020 21:55
Hexachlorobutadiene	ND		0.0021	0.0047	1	01/07/2020 21:55
Hexachloroethane	ND		0.0013	0.0047	1	01/07/2020 21:55
2-Hexanone	ND		0.0029	0.0047	1	01/07/2020 21:55
Isopropylbenzene	ND		0.0016	0.0047	1	01/07/2020 21:55
4-Isopropyl toluene	ND		0.0014	0.0047	1	01/07/2020 21:55
Methyl-t-butyl ether (MTBE)	ND		0.0016	0.0047	1	01/07/2020 21:55
Methylene chloride	ND		0.0075	0.0093	1	01/07/2020 21:55
4-Methyl-2-pentanone (MIBK)	ND		0.0027	0.0047	1	01/07/2020 21:55
Naphthalene	ND		0.0034	0.0047	1	01/07/2020 21:55
n-Propyl benzene	ND		0.0015	0.0047	1	01/07/2020 21:55
Styrene	ND		0.0025	0.0047	1	01/07/2020 21:55
1,1,1,2-Tetrachloroethane	ND		0.00083	0.0047	1	01/07/2020 21:55
1,1,2,2-Tetrachloroethane	ND		0.000041	0.00023	1	01/07/2020 21:55
Tetrachloroethene	ND		0.00019	0.00093	1	01/07/2020 21:55
Toluene	ND		0.0015	0.0047	1	01/07/2020 21:55
1,2,3-Trichlorobenzene	ND		0.0035	0.0047	1	01/07/2020 21:55
1,2,4-Trichlorobenzene	ND		0.0017	0.0047	1	01/07/2020 21:55
1,1,1-Trichloroethane	ND		0.00078	0.0047	1	01/07/2020 21:55
1,1,2-Trichloroethane	ND		0.00063	0.0047	1	01/07/2020 21:55
Trichloroethene	ND		0.0015	0.0047	1	01/07/2020 21:55
Trichlorofluoromethane	ND		0.0013	0.0047	1	01/07/2020 21:55
1,2,3-Trichloropropane	ND		0.000039	0.000047	1	01/07/2020 21:55
1,2,4-Trimethylbenzene	ND		0.0014	0.0047	1	01/07/2020 21:55
1,3,5-Trimethylbenzene	ND		0.0015	0.0047	1	01/07/2020 21:55
Vinyl Chloride	ND		0.000049	0.00023	1	01/07/2020 21:55
m,p-Xylene	ND		0.0021	0.0047	1	01/07/2020 21:55
o-Xylene	ND		0.00069	0.0047	1	01/07/2020 21:55
Xylenes, Total	ND		N/A	0.0047	1	01/07/2020 21:55

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# Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

## Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-0.0	2001093-013A	Soil	01/03/2020 10:12	GC16 01072022.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
Dibromofluoromethane	91			71-151		01/07/2020 21:55
Toluene-d8	113			90-150		01/07/2020 21:55
4-BFB	89			83-143		01/07/2020 21:55
Benzene-d6	83			71-118		01/07/2020 21:55
Ethylbenzene-d10	96			79-125		01/07/2020 21:55
1,2-DCB-d4	63			57-112		01/07/2020 21:55

Analyst(s): KF

Analytical Comments: a9



## Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-3.0	2001093-014A	Soil	01/03/2020 10:14	GC18 01072017.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND		0.067	0.10	1	01/07/2020 17:19
tert-Amyl methyl ether (TAME)	ND		0.00078	0.0050	1	01/07/2020 17:19
Benzene	ND		0.00099	0.0050	1	01/07/2020 17:19
Bromobenzene	ND		0.0012	0.0050	1	01/07/2020 17:19
Bromochloromethane	ND		0.0011	0.0050	1	01/07/2020 17:19
Bromodichloromethane	ND		0.00028	0.0010	1	01/07/2020 17:19
Bromoform	<b>0.0033</b>	J	0.0017	0.0050	1	01/07/2020 17:19
Bromomethane	ND		0.0018	0.0050	1	01/07/2020 17:19
2-Butanone (MEK)	ND		0.011	0.020	1	01/07/2020 17:19
t-Butyl alcohol (TBA)	ND		0.032	0.050	1	01/07/2020 17:19
n-Butyl benzene	ND		0.0021	0.0050	1	01/07/2020 17:19
sec-Butyl benzene	ND		0.0017	0.0050	1	01/07/2020 17:19
tert-Butyl benzene	ND		0.0013	0.0050	1	01/07/2020 17:19
Carbon Disulfide	ND		0.0030	0.0050	1	01/07/2020 17:19
Carbon Tetrachloride	ND		0.00091	0.0050	1	01/07/2020 17:19
Chlorobenzene	ND		0.00087	0.0050	1	01/07/2020 17:19
Chloroethane	ND		0.0020	0.0050	1	01/07/2020 17:19
Chloroform	ND		0.00011	0.0050	1	01/07/2020 17:19
Chloromethane	ND		0.0026	0.0050	1	01/07/2020 17:19
2-Chlorotoluene	ND		0.0016	0.0050	1	01/07/2020 17:19
4-Chlorotoluene	ND		0.0012	0.0050	1	01/07/2020 17:19
Dibromochloromethane	ND		0.00019	0.0050	1	01/07/2020 17:19
1,2-Dibromo-3-chloropropane	ND		0.00016	0.00025	1	01/07/2020 17:19
1,2-Dibromoethane (EDB)	ND		0.000034	0.00010	1	01/07/2020 17:19
Dibromomethane	ND		0.00081	0.0050	1	01/07/2020 17:19
1,2-Dichlorobenzene	ND		0.0011	0.0050	1	01/07/2020 17:19
1,3-Dichlorobenzene	ND		0.0010	0.0050	1	01/07/2020 17:19
1,4-Dichlorobenzene	ND		0.00086	0.0050	1	01/07/2020 17:19
Dichlorodifluoromethane	ND		0.0013	0.0050	1	01/07/2020 17:19
1,1-Dichloroethane	ND		0.00089	0.0050	1	01/07/2020 17:19
1,2-Dichloroethane (1,2-DCA)	ND		0.000088	0.00025	1	01/07/2020 17:19
1,1-Dichloroethene	ND		0.000028	0.00025	1	01/07/2020 17:19
cis-1,2-Dichloroethene	ND		0.00085	0.0050	1	01/07/2020 17:19
trans-1,2-Dichloroethene	ND		0.0011	0.0050	1	01/07/2020 17:19
1,2-Dichloropropane	ND		0.00080	0.0050	1	01/07/2020 17:19
1,3-Dichloropropane	ND		0.00070	0.0050	1	01/07/2020 17:19
2,2-Dichloropropane	ND		0.0019	0.0050	1	01/07/2020 17:19

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## Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-3.0	2001093-014A	Soil	01/03/2020 10:14	GC18 01072017.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.00084	0.0050	1	01/07/2020 17:19
cis-1,3-Dichloropropene	ND		0.0017	0.0050	1	01/07/2020 17:19
trans-1,3-Dichloropropene	ND		0.0020	0.0050	1	01/07/2020 17:19
Diisopropyl ether (DIPE)	ND		0.0011	0.0050	1	01/07/2020 17:19
Ethylbenzene	ND		0.00096	0.0050	1	01/07/2020 17:19
Ethyl tert-butyl ether (ETBE)	ND		0.0011	0.0050	1	01/07/2020 17:19
Freon 113	ND		0.0011	0.0050	1	01/07/2020 17:19
Hexachlorobutadiene	ND		0.0023	0.0050	1	01/07/2020 17:19
Hexachloroethane	ND		0.0014	0.0050	1	01/07/2020 17:19
2-Hexanone	ND		0.0031	0.0050	1	01/07/2020 17:19
Isopropylbenzene	ND		0.0017	0.0050	1	01/07/2020 17:19
4-Isopropyl toluene	ND		0.0015	0.0050	1	01/07/2020 17:19
Methyl-t-butyl ether (MTBE)	ND		0.0017	0.0050	1	01/07/2020 17:19
Methylene chloride	ND		0.0080	0.010	1	01/07/2020 17:19
4-Methyl-2-pentanone (MIBK)	ND		0.0029	0.0050	1	01/07/2020 17:19
Naphthalene	ND		0.0036	0.0050	1	01/07/2020 17:19
n-Propyl benzene	ND		0.0016	0.0050	1	01/07/2020 17:19
Styrene	ND		0.0027	0.0050	1	01/07/2020 17:19
1,1,1,2-Tetrachloroethane	ND		0.00090	0.0050	1	01/07/2020 17:19
1,1,2,2-Tetrachloroethane	ND		0.000044	0.00025	1	01/07/2020 17:19
Tetrachloroethene	ND		0.00020	0.0010	1	01/07/2020 17:19
Toluene	ND		0.0016	0.0050	1	01/07/2020 17:19
1,2,3-Trichlorobenzene	ND		0.0037	0.0050	1	01/07/2020 17:19
1,2,4-Trichlorobenzene	ND		0.0018	0.0050	1	01/07/2020 17:19
1,1,1-Trichloroethane	ND		0.00085	0.0050	1	01/07/2020 17:19
1,1,2-Trichloroethane	ND		0.00067	0.0050	1	01/07/2020 17:19
Trichloroethene	ND		0.0016	0.0050	1	01/07/2020 17:19
Trichlorofluoromethane	ND		0.0014	0.0050	1	01/07/2020 17:19
1,2,3-Trichloropropane	ND		0.000042	0.000050	1	01/07/2020 17:19
1,2,4-Trimethylbenzene	ND		0.0015	0.0050	1	01/07/2020 17:19
1,3,5-Trimethylbenzene	ND		0.0016	0.0050	1	01/07/2020 17:19
Vinyl Chloride	ND		0.000053	0.00025	1	01/07/2020 17:19
m,p-Xylene	ND		0.0023	0.0050	1	01/07/2020 17:19
o-Xylene	ND		0.00074	0.0050	1	01/07/2020 17:19
Xylenes, Total	ND		N/A	0.0050	1	01/07/2020 17:19

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# Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

## Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-3.0	2001093-014A	Soil	01/03/2020 10:14	GC18 01072017.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
Dibromofluoromethane	97			71-151		01/07/2020 17:19
Toluene-d8	106			90-150		01/07/2020 17:19
4-BFB	100			83-143		01/07/2020 17:19
Benzene-d6	89			71-118		01/07/2020 17:19
Ethylbenzene-d10	94			79-125		01/07/2020 17:19
1,2-DCB-d4	73			57-112		01/07/2020 17:19

Analyst(s): AK

Analytical Comments: a9



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW5035  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
RB-4-0.0	2001093-019A	Soil	01/02/2020 14:40			GC18 01072018.D	191706
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed	
Acetone	ND		0.063	0.094	1	01/07/2020 17:58	
tert-Amyl methyl ether (TAME)	ND		0.00073	0.0047	1	01/07/2020 17:58	
Benzene	ND		0.00092	0.0047	1	01/07/2020 17:58	
Bromobenzene	ND		0.0011	0.0047	1	01/07/2020 17:58	
Bromochloromethane	ND		0.0010	0.0047	1	01/07/2020 17:58	
Bromodichloromethane	ND		0.00026	0.00094	1	01/07/2020 17:58	
Bromoform	<b>0.0029</b>	J	0.0016	0.0047	1	01/07/2020 17:58	
Bromomethane	ND		0.0017	0.0047	1	01/07/2020 17:58	
2-Butanone (MEK)	ND		0.010	0.019	1	01/07/2020 17:58	
t-Butyl alcohol (TBA)	ND		0.030	0.047	1	01/07/2020 17:58	
n-Butyl benzene	ND		0.0020	0.0047	1	01/07/2020 17:58	
sec-Butyl benzene	ND		0.0016	0.0047	1	01/07/2020 17:58	
tert-Butyl benzene	ND		0.0012	0.0047	1	01/07/2020 17:58	
Carbon Disulfide	<b>0.0028</b>	J	0.0028	0.0047	1	01/07/2020 17:58	
Carbon Tetrachloride	ND		0.00085	0.0047	1	01/07/2020 17:58	
Chlorobenzene	ND		0.00081	0.0047	1	01/07/2020 17:58	
Chloroethane	ND		0.0019	0.0047	1	01/07/2020 17:58	
Chloroform	ND		0.00010	0.0047	1	01/07/2020 17:58	
Chloromethane	ND		0.0024	0.0047	1	01/07/2020 17:58	
2-Chlorotoluene	ND		0.0015	0.0047	1	01/07/2020 17:58	
4-Chlorotoluene	ND		0.0011	0.0047	1	01/07/2020 17:58	
Dibromochloromethane	ND		0.00018	0.0047	1	01/07/2020 17:58	
1,2-Dibromo-3-chloropropane	ND		0.00015	0.00023	1	01/07/2020 17:58	
1,2-Dibromoethane (EDB)	ND		0.000032	0.000094	1	01/07/2020 17:58	
Dibromomethane	ND		0.00076	0.0047	1	01/07/2020 17:58	
1,2-Dichlorobenzene	ND		0.0010	0.0047	1	01/07/2020 17:58	
1,3-Dichlorobenzene	ND		0.00094	0.0047	1	01/07/2020 17:58	
1,4-Dichlorobenzene	ND		0.00080	0.0047	1	01/07/2020 17:58	
Dichlorodifluoromethane	ND		0.0012	0.0047	1	01/07/2020 17:58	
1,1-Dichloroethane	ND		0.00083	0.0047	1	01/07/2020 17:58	
1,2-Dichloroethane (1,2-DCA)	ND		0.000082	0.00023	1	01/07/2020 17:58	
1,1-Dichloroethene	ND		0.000026	0.00023	1	01/07/2020 17:58	
cis-1,2-Dichloroethene	ND		0.00079	0.0047	1	01/07/2020 17:58	
trans-1,2-Dichloroethene	ND		0.0010	0.0047	1	01/07/2020 17:58	
1,2-Dichloropropane	ND		0.00075	0.0047	1	01/07/2020 17:58	
1,3-Dichloropropane	ND		0.00066	0.0047	1	01/07/2020 17:58	
2,2-Dichloropropane	ND		0.0018	0.0047	1	01/07/2020 17:58	

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## Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-0.0	2001093-019A	Soil	01/02/2020 14:40	GC18 01072018.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.00078	0.0047	1	01/07/2020 17:58
cis-1,3-Dichloropropene	ND		0.0016	0.0047	1	01/07/2020 17:58
trans-1,3-Dichloropropene	ND		0.0019	0.0047	1	01/07/2020 17:58
Diisopropyl ether (DIPE)	ND		0.0010	0.0047	1	01/07/2020 17:58
Ethylbenzene	ND		0.00089	0.0047	1	01/07/2020 17:58
Ethyl tert-butyl ether (ETBE)	ND		0.0010	0.0047	1	01/07/2020 17:58
Freon 113	ND		0.0010	0.0047	1	01/07/2020 17:58
Hexachlorobutadiene	ND		0.0022	0.0047	1	01/07/2020 17:58
Hexachloroethane	ND		0.0013	0.0047	1	01/07/2020 17:58
2-Hexanone	ND		0.0029	0.0047	1	01/07/2020 17:58
Isopropylbenzene	ND		0.0016	0.0047	1	01/07/2020 17:58
4-Isopropyl toluene	ND		0.0014	0.0047	1	01/07/2020 17:58
Methyl-t-butyl ether (MTBE)	ND		0.0016	0.0047	1	01/07/2020 17:58
Methylene chloride	ND		0.0075	0.0094	1	01/07/2020 17:58
4-Methyl-2-pentanone (MIBK)	ND		0.0027	0.0047	1	01/07/2020 17:58
Naphthalene	ND		0.0034	0.0047	1	01/07/2020 17:58
n-Propyl benzene	ND		0.0015	0.0047	1	01/07/2020 17:58
Styrene	ND		0.0025	0.0047	1	01/07/2020 17:58
1,1,1,2-Tetrachloroethane	ND		0.00084	0.0047	1	01/07/2020 17:58
1,1,2,2-Tetrachloroethane	ND		0.000041	0.00023	1	01/07/2020 17:58
Tetrachloroethene	ND		0.00019	0.00094	1	01/07/2020 17:58
Toluene	ND		0.0015	0.0047	1	01/07/2020 17:58
1,2,3-Trichlorobenzene	ND		0.0035	0.0047	1	01/07/2020 17:58
1,2,4-Trichlorobenzene	ND		0.0017	0.0047	1	01/07/2020 17:58
1,1,1-Trichloroethane	ND		0.00079	0.0047	1	01/07/2020 17:58
1,1,2-Trichloroethane	ND		0.00063	0.0047	1	01/07/2020 17:58
Trichloroethene	ND		0.0015	0.0047	1	01/07/2020 17:58
Trichlorofluoromethane	ND		0.0013	0.0047	1	01/07/2020 17:58
1,2,3-Trichloropropane	ND		0.000039	0.000047	1	01/07/2020 17:58
1,2,4-Trimethylbenzene	<b>0.0021</b>	J	0.0014	0.0047	1	01/07/2020 17:58
1,3,5-Trimethylbenzene	ND		0.0015	0.0047	1	01/07/2020 17:58
Vinyl Chloride	ND		0.000050	0.00023	1	01/07/2020 17:58
m,p-Xylene	ND		0.0022	0.0047	1	01/07/2020 17:58
o-Xylene	<b>0.0013</b>	J	0.00069	0.0047	1	01/07/2020 17:58
Xylenes, Total	<b>0.0013</b>	J	N/A	0.0047	1	01/07/2020 17:58

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# Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

## Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-0.0	2001093-019A	Soil	01/02/2020 14:40	GC18 01072018.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
Dibromofluoromethane	96			71-151		01/07/2020 17:58
Toluene-d8	105			90-150		01/07/2020 17:58
4-BFB	98			83-143		01/07/2020 17:58
Benzene-d6	81			71-118		01/07/2020 17:58
Ethylbenzene-d10	85			79-125		01/07/2020 17:58
1,2-DCB-d4	67			57-112		01/07/2020 17:58

Analyst(s): AK

Analytical Comments: a9





# Analytical Report

Client: Roux Associates, Inc.

WorkOrder: 2001093

Date Received: 1/3/20 14:40

Extraction Method: SW5035

Date Prepared: 1/3/20

Analytical Method: SW8260B

Project: 3374.0003S000; EBALDC-285 12th Street

Unit: mg/Kg

## Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-3.0	2001093-020A	Soil	01/02/2020 14:45	GC16 01072023.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND		0.068	0.10	1	01/07/2020 22:34
tert-Amyl methyl ether (TAME)	ND		0.00080	0.0051	1	01/07/2020 22:34
Benzene	ND		0.0010	0.0051	1	01/07/2020 22:34
Bromobenzene	ND		0.0012	0.0051	1	01/07/2020 22:34
Bromochloromethane	ND		0.0011	0.0051	1	01/07/2020 22:34
Bromodichloromethane	ND		0.00029	0.0010	1	01/07/2020 22:34
Bromoform	0.0027	JB	0.0017	0.0051	1	01/07/2020 22:34
Bromomethane	ND		0.0018	0.0051	1	01/07/2020 22:34
2-Butanone (MEK)	ND		0.011	0.020	1	01/07/2020 22:34
t-Butyl alcohol (TBA)	ND		0.033	0.051	1	01/07/2020 22:34
n-Butyl benzene	ND		0.0021	0.0051	1	01/07/2020 22:34
sec-Butyl benzene	ND		0.0017	0.0051	1	01/07/2020 22:34
tert-Butyl benzene	ND		0.0013	0.0051	1	01/07/2020 22:34
Carbon Disulfide	ND		0.0031	0.0051	1	01/07/2020 22:34
Carbon Tetrachloride	ND		0.00092	0.0051	1	01/07/2020 22:34
Chlorobenzene	ND		0.00088	0.0051	1	01/07/2020 22:34
Chloroethane	ND		0.0020	0.0051	1	01/07/2020 22:34
Chloroform	0.00012	J	0.00011	0.0051	1	01/07/2020 22:34
Chloromethane	ND		0.0027	0.0051	1	01/07/2020 22:34
2-Chlorotoluene	ND		0.0016	0.0051	1	01/07/2020 22:34
4-Chlorotoluene	ND		0.0012	0.0051	1	01/07/2020 22:34
Dibromochloromethane	ND		0.00019	0.0051	1	01/07/2020 22:34
1,2-Dibromo-3-chloropropane	ND		0.00016	0.00025	1	01/07/2020 22:34
1,2-Dibromoethane (EDB)	ND		0.000035	0.00010	1	01/07/2020 22:34
Dibromomethane	ND		0.00083	0.0051	1	01/07/2020 22:34
1,2-Dichlorobenzene	ND		0.0011	0.0051	1	01/07/2020 22:34
1,3-Dichlorobenzene	ND		0.0010	0.0051	1	01/07/2020 22:34
1,4-Dichlorobenzene	ND		0.00087	0.0051	1	01/07/2020 22:34
Dichlorodifluoromethane	ND		0.0013	0.0051	1	01/07/2020 22:34
1,1-Dichloroethane	ND		0.00090	0.0051	1	01/07/2020 22:34
1,2-Dichloroethane (1,2-DCA)	ND		0.000089	0.00025	1	01/07/2020 22:34
1,1-Dichloroethene	ND		0.000029	0.00025	1	01/07/2020 22:34
cis-1,2-Dichloroethene	ND		0.00086	0.0051	1	01/07/2020 22:34
trans-1,2-Dichloroethene	ND		0.0011	0.0051	1	01/07/2020 22:34
1,2-Dichloropropane	ND		0.00082	0.0051	1	01/07/2020 22:34
1,3-Dichloropropane	ND		0.00071	0.0051	1	01/07/2020 22:34
2,2-Dichloropropane	ND		0.0019	0.0051	1	01/07/2020 22:34

(Cont.)



# Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

## Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-3.0	2001093-020A	Soil	01/02/2020 14:45	GC16 01072023.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.00085	0.0051	1	01/07/2020 22:34
cis-1,3-Dichloropropene	ND		0.0017	0.0051	1	01/07/2020 22:34
trans-1,3-Dichloropropene	ND		0.0020	0.0051	1	01/07/2020 22:34
Diisopropyl ether (DIPE)	ND		0.0011	0.0051	1	01/07/2020 22:34
Ethylbenzene	ND		0.00097	0.0051	1	01/07/2020 22:34
Ethyl tert-butyl ether (ETBE)	ND		0.0011	0.0051	1	01/07/2020 22:34
Freon 113	ND		0.0011	0.0051	1	01/07/2020 22:34
Hexachlorobutadiene	ND		0.0023	0.0051	1	01/07/2020 22:34
Hexachloroethane	ND		0.0014	0.0051	1	01/07/2020 22:34
2-Hexanone	ND		0.0032	0.0051	1	01/07/2020 22:34
Isopropylbenzene	ND		0.0017	0.0051	1	01/07/2020 22:34
4-Isopropyl toluene	ND		0.0015	0.0051	1	01/07/2020 22:34
Methyl-t-butyl ether (MTBE)	ND		0.0017	0.0051	1	01/07/2020 22:34
Methylene chloride	ND		0.0082	0.010	1	01/07/2020 22:34
4-Methyl-2-pentanone (MIBK)	ND		0.0030	0.0051	1	01/07/2020 22:34
Naphthalene	ND		0.0037	0.0051	1	01/07/2020 22:34
n-Propyl benzene	ND		0.0016	0.0051	1	01/07/2020 22:34
Styrene	ND		0.0028	0.0051	1	01/07/2020 22:34
1,1,1,2-Tetrachloroethane	ND		0.00091	0.0051	1	01/07/2020 22:34
1,1,2,2-Tetrachloroethane	ND		0.000044	0.00025	1	01/07/2020 22:34
Tetrachloroethene	ND		0.00020	0.0010	1	01/07/2020 22:34
Toluene	ND		0.0016	0.0051	1	01/07/2020 22:34
1,2,3-Trichlorobenzene	ND		0.0038	0.0051	1	01/07/2020 22:34
1,2,4-Trichlorobenzene	ND		0.0018	0.0051	1	01/07/2020 22:34
1,1,1-Trichloroethane	ND		0.00086	0.0051	1	01/07/2020 22:34
1,1,2-Trichloroethane	ND		0.00068	0.0051	1	01/07/2020 22:34
Trichloroethene	ND		0.0016	0.0051	1	01/07/2020 22:34
Trichlorofluoromethane	ND		0.0014	0.0051	1	01/07/2020 22:34
1,2,3-Trichloropropane	ND		0.000043	0.000051	1	01/07/2020 22:34
1,2,4-Trimethylbenzene	ND		0.0015	0.0051	1	01/07/2020 22:34
1,3,5-Trimethylbenzene	ND		0.0016	0.0051	1	01/07/2020 22:34
Vinyl Chloride	ND		0.000054	0.00025	1	01/07/2020 22:34
m,p-Xylene	ND		0.0023	0.0051	1	01/07/2020 22:34
o-Xylene	ND		0.00075	0.0051	1	01/07/2020 22:34
Xylenes, Total	ND		N/A	0.0051	1	01/07/2020 22:34

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# Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

## Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-3.0	2001093-020A	Soil	01/02/2020 14:45	GC16 01072023.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
Dibromofluoromethane	94			71-151		01/07/2020 22:34
Toluene-d8	117			90-150		01/07/2020 22:34
4-BFB	88			83-143		01/07/2020 22:34
Benzene-d6	98			71-118		01/07/2020 22:34
Ethylbenzene-d10	121			79-125		01/07/2020 22:34
1,2-DCB-d4	75			57-112		01/07/2020 22:34

Analyst(s): KF

Analytical Comments: a9



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW5035  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
RB-5-0.0	2001093-024A	Soil	01/02/2020 15:30			GC16 01072024.D	191706
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed	
Acetone	ND		0.063	0.093	1	01/07/2020 23:14	
tert-Amyl methyl ether (TAME)	ND		0.00073	0.0047	1	01/07/2020 23:14	
Benzene	ND		0.00091	0.0047	1	01/07/2020 23:14	
Bromobenzene	ND		0.0011	0.0047	1	01/07/2020 23:14	
Bromochloromethane	ND		0.0010	0.0047	1	01/07/2020 23:14	
Bromodichloromethane	ND		0.00026	0.00093	1	01/07/2020 23:14	
Bromoform	<b>0.0023</b>	JB	0.0016	0.0047	1	01/07/2020 23:14	
Bromomethane	ND		0.0017	0.0047	1	01/07/2020 23:14	
2-Butanone (MEK)	ND		0.010	0.019	1	01/07/2020 23:14	
t-Butyl alcohol (TBA)	ND		0.030	0.047	1	01/07/2020 23:14	
n-Butyl benzene	ND		0.0020	0.0047	1	01/07/2020 23:14	
sec-Butyl benzene	ND		0.0016	0.0047	1	01/07/2020 23:14	
tert-Butyl benzene	ND		0.0012	0.0047	1	01/07/2020 23:14	
Carbon Disulfide	ND		0.0028	0.0047	1	01/07/2020 23:14	
Carbon Tetrachloride	ND		0.00084	0.0047	1	01/07/2020 23:14	
Chlorobenzene	ND		0.00080	0.0047	1	01/07/2020 23:14	
Chloroethane	ND		0.0019	0.0047	1	01/07/2020 23:14	
Chloroform	<b>0.00012</b>	J	0.00010	0.0047	1	01/07/2020 23:14	
Chloromethane	ND		0.0024	0.0047	1	01/07/2020 23:14	
2-Chlorotoluene	ND		0.0015	0.0047	1	01/07/2020 23:14	
4-Chlorotoluene	ND		0.0011	0.0047	1	01/07/2020 23:14	
Dibromochloromethane	ND		0.00018	0.0047	1	01/07/2020 23:14	
1,2-Dibromo-3-chloropropane	ND		0.00015	0.00023	1	01/07/2020 23:14	
1,2-Dibromoethane (EDB)	ND		0.000032	0.000093	1	01/07/2020 23:14	
Dibromomethane	ND		0.00076	0.0047	1	01/07/2020 23:14	
1,2-Dichlorobenzene	ND		0.0010	0.0047	1	01/07/2020 23:14	
1,3-Dichlorobenzene	ND		0.00093	0.0047	1	01/07/2020 23:14	
1,4-Dichlorobenzene	ND		0.00079	0.0047	1	01/07/2020 23:14	
Dichlorodifluoromethane	ND		0.0012	0.0047	1	01/07/2020 23:14	
1,1-Dichloroethane	ND		0.00082	0.0047	1	01/07/2020 23:14	
1,2-Dichloroethane (1,2-DCA)	ND		0.000081	0.00023	1	01/07/2020 23:14	
1,1-Dichloroethene	ND		0.000026	0.00023	1	01/07/2020 23:14	
cis-1,2-Dichloroethene	ND		0.00078	0.0047	1	01/07/2020 23:14	
trans-1,2-Dichloroethene	ND		0.0010	0.0047	1	01/07/2020 23:14	
1,2-Dichloropropane	ND		0.00075	0.0047	1	01/07/2020 23:14	
1,3-Dichloropropane	ND		0.00065	0.0047	1	01/07/2020 23:14	
2,2-Dichloropropane	ND		0.0018	0.0047	1	01/07/2020 23:14	

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## Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-5-0.0	2001093-024A	Soil	01/02/2020 15:30	GC16 01072024.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.00077	0.0047	1	01/07/2020 23:14
cis-1,3-Dichloropropene	ND		0.0016	0.0047	1	01/07/2020 23:14
trans-1,3-Dichloropropene	ND		0.0019	0.0047	1	01/07/2020 23:14
Diisopropyl ether (DIPE)	ND		0.0010	0.0047	1	01/07/2020 23:14
Ethylbenzene	ND		0.00089	0.0047	1	01/07/2020 23:14
Ethyl tert-butyl ether (ETBE)	ND		0.0010	0.0047	1	01/07/2020 23:14
Freon 113	ND		0.0010	0.0047	1	01/07/2020 23:14
Hexachlorobutadiene	ND		0.0021	0.0047	1	01/07/2020 23:14
Hexachloroethane	ND		0.0013	0.0047	1	01/07/2020 23:14
2-Hexanone	ND		0.0029	0.0047	1	01/07/2020 23:14
Isopropylbenzene	ND		0.0016	0.0047	1	01/07/2020 23:14
4-Isopropyl toluene	ND		0.0014	0.0047	1	01/07/2020 23:14
Methyl-t-butyl ether (MTBE)	ND		0.0016	0.0047	1	01/07/2020 23:14
Methylene chloride	ND		0.0075	0.0093	1	01/07/2020 23:14
4-Methyl-2-pentanone (MIBK)	ND		0.0027	0.0047	1	01/07/2020 23:14
Naphthalene	ND		0.0034	0.0047	1	01/07/2020 23:14
n-Propyl benzene	ND		0.0015	0.0047	1	01/07/2020 23:14
Styrene	ND		0.0025	0.0047	1	01/07/2020 23:14
1,1,1,2-Tetrachloroethane	ND		0.00083	0.0047	1	01/07/2020 23:14
1,1,2,2-Tetrachloroethane	ND		0.000041	0.00023	1	01/07/2020 23:14
Tetrachloroethene	ND		0.00019	0.00093	1	01/07/2020 23:14
Toluene	ND		0.0015	0.0047	1	01/07/2020 23:14
1,2,3-Trichlorobenzene	ND		0.0035	0.0047	1	01/07/2020 23:14
1,2,4-Trichlorobenzene	ND		0.0017	0.0047	1	01/07/2020 23:14
1,1,1-Trichloroethane	ND		0.00078	0.0047	1	01/07/2020 23:14
1,1,2-Trichloroethane	ND		0.00063	0.0047	1	01/07/2020 23:14
Trichloroethene	ND		0.0015	0.0047	1	01/07/2020 23:14
Trichlorofluoromethane	ND		0.0013	0.0047	1	01/07/2020 23:14
1,2,3-Trichloropropane	ND		0.000039	0.000047	1	01/07/2020 23:14
1,2,4-Trimethylbenzene	ND		0.0014	0.0047	1	01/07/2020 23:14
1,3,5-Trimethylbenzene	ND		0.0015	0.0047	1	01/07/2020 23:14
Vinyl Chloride	ND		0.000049	0.00023	1	01/07/2020 23:14
m,p-Xylene	ND		0.0021	0.0047	1	01/07/2020 23:14
o-Xylene	ND		0.00069	0.0047	1	01/07/2020 23:14
Xylenes, Total	ND		N/A	0.0047	1	01/07/2020 23:14

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# Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

## Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-5-0.0	2001093-024A	Soil	01/02/2020 15:30	GC16 01072024.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
Dibromofluoromethane	92			71-151		01/07/2020 23:14
Toluene-d8	117			90-150		01/07/2020 23:14
4-BFB	85			83-143		01/07/2020 23:14
Benzene-d6	92			71-118		01/07/2020 23:14
Ethylbenzene-d10	101			79-125		01/07/2020 23:14
1,2-DCB-d4	71			57-112		01/07/2020 23:14

Analyst(s): KF

Analytical Comments: a9



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW5035  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
RB-5-3.0	2001093-025A	Soil	01/02/2020 15:30			GC16 01072025.D	191706
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed	
Acetone	ND		0.067	0.10	1	01/07/2020 23:53	
tert-Amyl methyl ether (TAME)	ND		0.00078	0.0050	1	01/07/2020 23:53	
Benzene	ND		0.00098	0.0050	1	01/07/2020 23:53	
Bromobenzene	ND		0.0012	0.0050	1	01/07/2020 23:53	
Bromochloromethane	ND		0.0011	0.0050	1	01/07/2020 23:53	
Bromodichloromethane	ND		0.00028	0.0010	1	01/07/2020 23:53	
Bromoform	<b>0.0026</b>	JB	0.0017	0.0050	1	01/07/2020 23:53	
Bromomethane	ND		0.0018	0.0050	1	01/07/2020 23:53	
2-Butanone (MEK)	ND		0.011	0.020	1	01/07/2020 23:53	
t-Butyl alcohol (TBA)	ND		0.032	0.050	1	01/07/2020 23:53	
n-Butyl benzene	ND		0.0021	0.0050	1	01/07/2020 23:53	
sec-Butyl benzene	ND		0.0017	0.0050	1	01/07/2020 23:53	
tert-Butyl benzene	ND		0.0013	0.0050	1	01/07/2020 23:53	
Carbon Disulfide	ND		0.0030	0.0050	1	01/07/2020 23:53	
Carbon Tetrachloride	ND		0.00090	0.0050	1	01/07/2020 23:53	
Chlorobenzene	ND		0.00086	0.0050	1	01/07/2020 23:53	
Chloroethane	ND		0.0020	0.0050	1	01/07/2020 23:53	
Chloroform	ND		0.00011	0.0050	1	01/07/2020 23:53	
Chloromethane	ND		0.0026	0.0050	1	01/07/2020 23:53	
2-Chlorotoluene	ND		0.0016	0.0050	1	01/07/2020 23:53	
4-Chlorotoluene	ND		0.0012	0.0050	1	01/07/2020 23:53	
Dibromochloromethane	ND		0.00019	0.0050	1	01/07/2020 23:53	
1,2-Dibromo-3-chloropropane	ND		0.00016	0.00025	1	01/07/2020 23:53	
1,2-Dibromoethane (EDB)	ND		0.000034	0.00010	1	01/07/2020 23:53	
Dibromomethane	ND		0.00081	0.0050	1	01/07/2020 23:53	
1,2-Dichlorobenzene	ND		0.0011	0.0050	1	01/07/2020 23:53	
1,3-Dichlorobenzene	ND		0.0010	0.0050	1	01/07/2020 23:53	
1,4-Dichlorobenzene	ND		0.00085	0.0050	1	01/07/2020 23:53	
Dichlorodifluoromethane	ND		0.0013	0.0050	1	01/07/2020 23:53	
1,1-Dichloroethane	ND		0.00088	0.0050	1	01/07/2020 23:53	
1,2-Dichloroethane (1,2-DCA)	<b>0.000090</b>	J	0.000087	0.00025	1	01/07/2020 23:53	
1,1-Dichloroethene	ND		0.000028	0.00025	1	01/07/2020 23:53	
cis-1,2-Dichloroethene	ND		0.00084	0.0050	1	01/07/2020 23:53	
trans-1,2-Dichloroethene	ND		0.0011	0.0050	1	01/07/2020 23:53	
1,2-Dichloropropane	ND		0.00080	0.0050	1	01/07/2020 23:53	
1,3-Dichloropropane	ND		0.00070	0.0050	1	01/07/2020 23:53	
2,2-Dichloropropane	ND		0.0019	0.0050	1	01/07/2020 23:53	

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## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW5035  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-5-3.0	2001093-025A	Soil	01/02/2020 15:30	GC16 01072025.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.00083	0.0050	1	01/07/2020 23:53
cis-1,3-Dichloropropene	ND		0.0017	0.0050	1	01/07/2020 23:53
trans-1,3-Dichloropropene	ND		0.0020	0.0050	1	01/07/2020 23:53
Diisopropyl ether (DIPE)	ND		0.0011	0.0050	1	01/07/2020 23:53
Ethylbenzene	ND		0.00095	0.0050	1	01/07/2020 23:53
Ethyl tert-butyl ether (ETBE)	ND		0.0011	0.0050	1	01/07/2020 23:53
Freon 113	ND		0.0011	0.0050	1	01/07/2020 23:53
Hexachlorobutadiene	ND		0.0023	0.0050	1	01/07/2020 23:53
Hexachloroethane	ND		0.0014	0.0050	1	01/07/2020 23:53
2-Hexanone	ND		0.0031	0.0050	1	01/07/2020 23:53
Isopropylbenzene	ND		0.0017	0.0050	1	01/07/2020 23:53
4-Isopropyl toluene	ND		0.0015	0.0050	1	01/07/2020 23:53
Methyl-t-butyl ether (MTBE)	ND		0.0017	0.0050	1	01/07/2020 23:53
Methylene chloride	ND		0.0080	0.010	1	01/07/2020 23:53
4-Methyl-2-pentanone (MIBK)	ND		0.0029	0.0050	1	01/07/2020 23:53
Naphthalene	ND		0.0036	0.0050	1	01/07/2020 23:53
n-Propyl benzene	ND		0.0016	0.0050	1	01/07/2020 23:53
Styrene	ND		0.0027	0.0050	1	01/07/2020 23:53
1,1,1,2-Tetrachloroethane	ND		0.00089	0.0050	1	01/07/2020 23:53
1,1,2,2-Tetrachloroethane	ND		0.000043	0.00025	1	01/07/2020 23:53
Tetrachloroethene	ND		0.00020	0.0010	1	01/07/2020 23:53
Toluene	ND		0.0016	0.0050	1	01/07/2020 23:53
1,2,3-Trichlorobenzene	ND		0.0037	0.0050	1	01/07/2020 23:53
1,2,4-Trichlorobenzene	ND		0.0018	0.0050	1	01/07/2020 23:53
1,1,1-Trichloroethane	ND		0.00084	0.0050	1	01/07/2020 23:53
1,1,2-Trichloroethane	ND		0.00067	0.0050	1	01/07/2020 23:53
Trichloroethene	ND		0.0016	0.0050	1	01/07/2020 23:53
Trichlorofluoromethane	ND		0.0014	0.0050	1	01/07/2020 23:53
1,2,3-Trichloropropane	ND		0.000042	0.000050	1	01/07/2020 23:53
1,2,4-Trimethylbenzene	ND		0.0015	0.0050	1	01/07/2020 23:53
1,3,5-Trimethylbenzene	ND		0.0016	0.0050	1	01/07/2020 23:53
Vinyl Chloride	ND		0.000053	0.00025	1	01/07/2020 23:53
m,p-Xylene	ND		0.0023	0.0050	1	01/07/2020 23:53
o-Xylene	ND		0.00074	0.0050	1	01/07/2020 23:53
Xylenes, Total	ND		N/A	0.0050	1	01/07/2020 23:53

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# Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

## Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-5-3.0	2001093-025A	Soil	01/02/2020 15:30	GC16 01072025.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
Dibromofluoromethane	93			71-151		01/07/2020 23:53
Toluene-d8	117			90-150		01/07/2020 23:53
4-BFB	87			83-143		01/07/2020 23:53
Benzene-d6	103			71-118		01/07/2020 23:53
Ethylbenzene-d10	128	S		79-125		01/07/2020 23:53
1,2-DCB-d4	77			57-112		01/07/2020 23:53

Analyst(s): KF

Analytical Comments: a9,c2



## Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

### Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-5-5.0	2001093-026A	Soil	01/02/2020 15:50	GC16 01072026.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND		0.058	0.086	1	01/08/2020 00:32
tert-Amyl methyl ether (TAME)	ND		0.00067	0.0043	1	01/08/2020 00:32
Benzene	ND		0.00084	0.0043	1	01/08/2020 00:32
Bromobenzene	ND		0.0010	0.0043	1	01/08/2020 00:32
Bromochloromethane	ND		0.00095	0.0043	1	01/08/2020 00:32
Bromodichloromethane	ND		0.00024	0.00086	1	01/08/2020 00:32
Bromoform	<b>0.0026</b>	JB	0.0015	0.0043	1	01/08/2020 00:32
Bromomethane	ND		0.0015	0.0043	1	01/08/2020 00:32
2-Butanone (MEK)	ND		0.0095	0.017	1	01/08/2020 00:32
t-Butyl alcohol (TBA)	ND		0.028	0.043	1	01/08/2020 00:32
n-Butyl benzene	ND		0.0018	0.0043	1	01/08/2020 00:32
sec-Butyl benzene	ND		0.0015	0.0043	1	01/08/2020 00:32
tert-Butyl benzene	ND		0.0011	0.0043	1	01/08/2020 00:32
Carbon Disulfide	ND		0.0026	0.0043	1	01/08/2020 00:32
Carbon Tetrachloride	ND		0.00077	0.0043	1	01/08/2020 00:32
Chlorobenzene	ND		0.00074	0.0043	1	01/08/2020 00:32
Chloroethane	ND		0.0017	0.0043	1	01/08/2020 00:32
Chloroform	ND		0.000095	0.0043	1	01/08/2020 00:32
Chloromethane	ND		0.0022	0.0043	1	01/08/2020 00:32
2-Chlorotoluene	ND		0.0014	0.0043	1	01/08/2020 00:32
4-Chlorotoluene	ND		0.0010	0.0043	1	01/08/2020 00:32
Dibromochloromethane	ND		0.00016	0.0043	1	01/08/2020 00:32
1,2-Dibromo-3-chloropropane	ND		0.00014	0.00021	1	01/08/2020 00:32
1,2-Dibromoethane (EDB)	ND		0.000029	0.000086	1	01/08/2020 00:32
Dibromomethane	ND		0.00070	0.0043	1	01/08/2020 00:32
1,2-Dichlorobenzene	ND		0.00095	0.0043	1	01/08/2020 00:32
1,3-Dichlorobenzene	ND		0.00086	0.0043	1	01/08/2020 00:32
1,4-Dichlorobenzene	ND		0.00073	0.0043	1	01/08/2020 00:32
Dichlorodifluoromethane	ND		0.0011	0.0043	1	01/08/2020 00:32
1,1-Dichloroethane	ND		0.00076	0.0043	1	01/08/2020 00:32
1,2-Dichloroethane (1,2-DCA)	<b>0.000076</b>	J	0.000075	0.00021	1	01/08/2020 00:32
1,1-Dichloroethene	ND		0.000024	0.00021	1	01/08/2020 00:32
cis-1,2-Dichloroethene	ND		0.00072	0.0043	1	01/08/2020 00:32
trans-1,2-Dichloroethene	ND		0.00095	0.0043	1	01/08/2020 00:32
1,2-Dichloropropane	ND		0.00069	0.0043	1	01/08/2020 00:32
1,3-Dichloropropane	ND		0.00060	0.0043	1	01/08/2020 00:32
2,2-Dichloropropane	ND		0.0016	0.0043	1	01/08/2020 00:32

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# Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

## Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-5-5.0	2001093-026A	Soil	01/02/2020 15:50	GC16 01072026.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.00071	0.0043	1	01/08/2020 00:32
cis-1,3-Dichloropropene	ND		0.0015	0.0043	1	01/08/2020 00:32
trans-1,3-Dichloropropene	ND		0.0017	0.0043	1	01/08/2020 00:32
Diisopropyl ether (DIPE)	ND		0.00095	0.0043	1	01/08/2020 00:32
Ethylbenzene	ND		0.00082	0.0043	1	01/08/2020 00:32
Ethyl tert-butyl ether (ETBE)	ND		0.00095	0.0043	1	01/08/2020 00:32
Freon 113	ND		0.00095	0.0043	1	01/08/2020 00:32
Hexachlorobutadiene	ND		0.0020	0.0043	1	01/08/2020 00:32
Hexachloroethane	ND		0.0012	0.0043	1	01/08/2020 00:32
2-Hexanone	ND		0.0027	0.0043	1	01/08/2020 00:32
Isopropylbenzene	ND		0.0015	0.0043	1	01/08/2020 00:32
4-Isopropyl toluene	ND		0.0013	0.0043	1	01/08/2020 00:32
Methyl-t-butyl ether (MTBE)	ND		0.0015	0.0043	1	01/08/2020 00:32
Methylene chloride	ND		0.0069	0.0086	1	01/08/2020 00:32
4-Methyl-2-pentanone (MIBK)	ND		0.0025	0.0043	1	01/08/2020 00:32
Naphthalene	ND		0.0031	0.0043	1	01/08/2020 00:32
n-Propyl benzene	ND		0.0014	0.0043	1	01/08/2020 00:32
Styrene	ND		0.0023	0.0043	1	01/08/2020 00:32
1,1,1,2-Tetrachloroethane	ND		0.00077	0.0043	1	01/08/2020 00:32
1,1,2,2-Tetrachloroethane	ND		0.000037	0.00021	1	01/08/2020 00:32
Tetrachloroethene	ND		0.00017	0.00086	1	01/08/2020 00:32
Toluene	ND		0.0014	0.0043	1	01/08/2020 00:32
1,2,3-Trichlorobenzene	ND		0.0032	0.0043	1	01/08/2020 00:32
1,2,4-Trichlorobenzene	ND		0.0015	0.0043	1	01/08/2020 00:32
1,1,1-Trichloroethane	ND		0.00072	0.0043	1	01/08/2020 00:32
1,1,2-Trichloroethane	ND		0.00058	0.0043	1	01/08/2020 00:32
Trichloroethene	ND		0.0014	0.0043	1	01/08/2020 00:32
Trichlorofluoromethane	ND		0.0012	0.0043	1	01/08/2020 00:32
1,2,3-Trichloropropane	ND		0.000036	0.000043	1	01/08/2020 00:32
1,2,4-Trimethylbenzene	ND		0.0013	0.0043	1	01/08/2020 00:32
1,3,5-Trimethylbenzene	ND		0.0014	0.0043	1	01/08/2020 00:32
Vinyl Chloride	ND		0.000046	0.00021	1	01/08/2020 00:32
m,p-Xylene	ND		0.0020	0.0043	1	01/08/2020 00:32
o-Xylene	ND		0.00064	0.0043	1	01/08/2020 00:32
Xylenes, Total	ND		N/A	0.0043	1	01/08/2020 00:32

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# Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/Kg

## Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-5-5.0	2001093-026A	Soil	01/02/2020 15:50	GC16 01072026.D	191706

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
Dibromofluoromethane	92			71-151		01/08/2020 00:32
Toluene-d8	116			90-150		01/08/2020 00:32
4-BFB	87			83-143		01/08/2020 00:32
Benzene-d6	106			71-118		01/08/2020 00:32
Ethylbenzene-d10	136	S		79-125		01/08/2020 00:32
1,2-DCB-d4	82			57-112		01/08/2020 00:32

Analyst(s): KF

Analytical Comments: a9,c2



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW5035  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

### TPH(g) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-0.0	2001093-001A	Soil	01/03/2020 07:45	GC16 01072010.D	191701

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.24	0.24	1	01/07/2020 13:53

Surrogates	REC (%)	Limits
Dibromofluoromethane	81	70-130
Benzene-D6	91	70-130

Analyst(s): TK Analytical Comments: a9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-3.0	2001093-002A	Soil	01/03/2020 07:50	GC16 01072013.D	191701

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.25	0.25	1	01/07/2020 15:51

Surrogates	REC (%)	Limits
Dibromofluoromethane	82	70-130
Benzene-D6	95	70-130

Analyst(s): KF Analytical Comments: a9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-5.0	2001093-003A	Soil	01/03/2020 08:32	GC16 01072014.D	191701

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.22	0.22	1	01/07/2020 16:30

Surrogates	REC (%)	Limits
Dibromofluoromethane	81	70-130
Benzene-D6	91	70-130

Analyst(s): KF Analytical Comments: a9



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW5035  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

### TPH(g) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
RB-1-15.0	2001093-005A	Soil	01/03/2020 08:55			GC16 01072009.D	191701
<u>Analytes</u>		<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>	
TPH(g) (C6-C12)		ND	0.19	0.19	1	01/07/2020 13:14	
<u>Surrogates</u>		<u>REC (%)</u>	<u>Limits</u>				
Dibromofluoromethane		81	70-130			01/07/2020 13:14	
Benzene-D6		99	70-130			01/07/2020 13:14	
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> a9				

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
RB-2-0.0	2001093-007A	Soil	01/03/2020 08:45			GC16 01072015.D	191701
<u>Analytes</u>		<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>	
TPH(g) (C6-C12)		1.6	0.25	0.25	1	01/07/2020 17:10	
<u>Surrogates</u>		<u>REC (%)</u>	<u>Limits</u>				
Dibromofluoromethane		82	70-130			01/07/2020 17:10	
Benzene-D6		88	70-130			01/07/2020 17:10	
<u>Analyst(s):</u> KF			<u>Analytical Comments:</u> a9				

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
RB-2-3.0	2001093-008A	Soil	01/03/2020 08:50			GC16 01072016.D	191701
<u>Analytes</u>		<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>	
TPH(g) (C6-C12)		ND	0.26	0.26	1	01/07/2020 17:49	
<u>Surrogates</u>		<u>REC (%)</u>	<u>Limits</u>				
Dibromofluoromethane		82	70-130			01/07/2020 17:49	
Benzene-D6		91	70-130			01/07/2020 17:49	
<u>Analyst(s):</u> KF			<u>Analytical Comments:</u> a9				

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## Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/kg

### TPH(g) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-0.0	2001093-013A	Soil	01/03/2020 10:12	GC16 01072022.D	191701

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.23	0.23	1	01/07/2020 21:55

Surrogates	REC (%)	Limits
Dibromofluoromethane	81	70-130
Benzene-D6	87	70-130

Analyst(s): KF Analytical Comments: a9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-3.0	2001093-014A	Soil	01/03/2020 10:14	GC18 01072017.D	191701

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.25	0.25	1	01/07/2020 17:19

Surrogates	REC (%)	Limits
Dibromofluoromethane	100	70-130
Benzene-D6	86	70-130

Analyst(s): KF Analytical Comments: a9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-0.0	2001093-019A	Soil	01/02/2020 14:40	GC18 01072018.D	191701

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH(g) (C6-C12)	<b>0.50</b>	0.23	0.23	1	01/07/2020 17:58

Surrogates	REC (%)	Limits
Dibromofluoromethane	100	70-130
Benzene-D6	78	70-130

Analyst(s): KF Analytical Comments: a9

(Cont.)



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW5035  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

### TPH(g) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-3.0	2001093-020A	Soil	01/02/2020 14:45	GC16 01072023.D	191701

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.25	0.25	1	01/07/2020 22:34

Surrogates	REC (%)	Limits
Dibromofluoromethane	82	70-130
Benzene-D6	104	70-130

Analyst(s): KF Analytical Comments: a9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-5-0.0	2001093-024A	Soil	01/02/2020 15:30	GC16 01072024.D	191701

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.23	0.23	1	01/07/2020 23:14

Surrogates	REC (%)	Limits
Dibromofluoromethane	82	70-130
Benzene-D6	97	70-130

Analyst(s): KF Analytical Comments: a9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-5-3.0	2001093-025A	Soil	01/02/2020 15:30	GC16 01072025.D	191701

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.25	0.25	1	01/07/2020 23:53

Surrogates	REC (%)	Limits
Dibromofluoromethane	82	70-130
Benzene-D6	110	70-130

Analyst(s): KF Analytical Comments: a9





# Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001093

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5035

**Date Prepared:** 1/3/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** mg/kg

## TPH(g) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-5-5.0	2001093-026A	Soil	01/02/2020 15:50	GC16 01072026.D	191701

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.21	0.21	1	01/08/2020 00:32

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	82	70-130	01/08/2020 00:32
Benzene-D6	115	70-130	01/08/2020 00:32

**Analyst(s):** KF

**Analytical Comments:** a9



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/7/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270C-SIM  
**Unit:** mg/kg

### Polynuclear Aromatic Hydrocarbons (PNAs) using SIM Mode w/ GPC Clean-up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-0.0	2001093-001A	Soil	01/03/2020 07:45	GC21 01072008.D	191794

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.0012	0.0013	1	01/07/2020 11:33
Acenaphthylene	ND		0.0012	0.0013	1	01/07/2020 11:33
Anthracene	ND		0.00096	0.0013	1	01/07/2020 11:33
Benzo (a) anthracene	ND		0.0044	0.0050	1	01/07/2020 11:33
Benzo (a) pyrene	<b>0.0031</b>		0.0011	0.0025	1	01/07/2020 11:33
Benzo (b) fluoranthene	<b>0.0072</b>		0.0012	0.0063	1	01/07/2020 11:33
Benzo (g,h,i) perylene	<b>0.0069</b>		0.0010	0.0025	1	01/07/2020 11:33
Benzo (k) fluoranthene	<b>0.0023</b>		0.0010	0.0013	1	01/07/2020 11:33
Chrysene	<b>0.0029</b>		0.00098	0.0025	1	01/07/2020 11:33
Dibenzo (a,h) anthracene	<b>0.0025</b>	J	0.0011	0.0025	1	01/07/2020 11:33
Fluoranthene	<b>0.0030</b>		0.0011	0.0013	1	01/07/2020 11:33
Fluorene	ND		0.0019	0.0025	1	01/07/2020 11:33
Indeno (1,2,3-cd) pyrene	<b>0.0031</b>		0.0010	0.0025	1	01/07/2020 11:33
1-Methylnaphthalene	ND		0.0011	0.0013	1	01/07/2020 11:33
2-Methylnaphthalene	ND		0.0018	0.0025	1	01/07/2020 11:33
Naphthalene	ND		0.0013	0.0013	1	01/07/2020 11:33
Phenanthrene	<b>0.0045</b>	J	0.0011	0.0050	1	01/07/2020 11:33
Pyrene	<b>0.0053</b>		0.0012	0.0025	1	01/07/2020 11:33

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorophenol	71	51-142	01/07/2020 11:33
2-Fluorobiphenyl	64	46-140	01/07/2020 11:33

Analyst(s): REB



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/7/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270C-SIM  
**Unit:** mg/kg

### Polynuclear Aromatic Hydrocarbons (PNAs) using SIM Mode w/ GPC Clean-up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-0.0	2001093-007A	Soil	01/03/2020 08:45	GC21 01072011.D	191794

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.0024	0.0026	2	01/07/2020 12:55
Acenaphthylene	<b>0.0054</b>		0.0024	0.0026	2	01/07/2020 12:55
Anthracene	<b>0.0024</b>	J	0.0019	0.0026	2	01/07/2020 12:55
Benzo (a) anthracene	<b>0.022</b>		0.0088	0.010	2	01/07/2020 12:55
Benzo (a) pyrene	<b>0.023</b>		0.0022	0.0050	2	01/07/2020 12:55
Benzo (b) fluoranthene	<b>0.038</b>		0.0024	0.013	2	01/07/2020 12:55
Benzo (g,h,i) perylene	<b>0.040</b>		0.0020	0.0050	2	01/07/2020 12:55
Benzo (k) fluoranthene	<b>0.0085</b>		0.0020	0.0026	2	01/07/2020 12:55
Chrysene	<b>0.032</b>		0.0020	0.0050	2	01/07/2020 12:55
Dibenzo (a,h) anthracene	<b>0.018</b>		0.0022	0.0050	2	01/07/2020 12:55
Fluoranthene	<b>0.039</b>		0.0022	0.0026	2	01/07/2020 12:55
Fluorene	ND		0.0038	0.0050	2	01/07/2020 12:55
Indeno (1,2,3-cd) pyrene	<b>0.019</b>		0.0020	0.0050	2	01/07/2020 12:55
1-Methylnaphthalene	<b>0.042</b>		0.0022	0.0026	2	01/07/2020 12:55
2-Methylnaphthalene	<b>0.042</b>		0.0036	0.0050	2	01/07/2020 12:55
Naphthalene	<b>0.011</b>		0.0026	0.0026	2	01/07/2020 12:55
Phenanthrene	<b>0.037</b>		0.0022	0.010	2	01/07/2020 12:55
Pyrene	<b>0.046</b>		0.0024	0.0050	2	01/07/2020 12:55

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorophenol	57	51-142	01/07/2020 12:55
2-Fluorobiphenyl	73	46-140	01/07/2020 12:55

**Analyst(s):** REB **Analytical Comments:** c2



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/7/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270C-SIM  
**Unit:** mg/kg

### Polynuclear Aromatic Hydrocarbons (PNAs) using SIM Mode w/ GPC Clean-up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-3.0	2001093-008A	Soil	01/03/2020 08:50	GC21 01072012.D	191794

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.0012	0.0013	1	01/07/2020 13:23
Acenaphthylene	ND		0.0012	0.0013	1	01/07/2020 13:23
Anthracene	ND		0.00096	0.0013	1	01/07/2020 13:23
Benzo (a) anthracene	ND		0.0044	0.0050	1	01/07/2020 13:23
Benzo (a) pyrene	ND		0.0011	0.0025	1	01/07/2020 13:23
Benzo (b) fluoranthene	<b>0.0013</b>	J	0.0012	0.0063	1	01/07/2020 13:23
Benzo (g,h,i) perylene	ND		0.0010	0.0025	1	01/07/2020 13:23
Benzo (k) fluoranthene	ND		0.0010	0.0013	1	01/07/2020 13:23
Chrysene	ND		0.00098	0.0025	1	01/07/2020 13:23
Dibenzo (a,h) anthracene	ND		0.0011	0.0025	1	01/07/2020 13:23
Fluoranthene	ND		0.0011	0.0013	1	01/07/2020 13:23
Fluorene	ND		0.0019	0.0025	1	01/07/2020 13:23
Indeno (1,2,3-cd) pyrene	ND		0.0010	0.0025	1	01/07/2020 13:23
1-Methylnaphthalene	ND		0.0011	0.0013	1	01/07/2020 13:23
2-Methylnaphthalene	ND		0.0018	0.0025	1	01/07/2020 13:23
Naphthalene	ND		0.0013	0.0013	1	01/07/2020 13:23
Phenanthrene	ND		0.0011	0.0050	1	01/07/2020 13:23
Pyrene	<b>0.0012</b>	J	0.0012	0.0025	1	01/07/2020 13:23

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorophenol	66	51-142	01/07/2020 13:23
2-Fluorobiphenyl	60	46-140	01/07/2020 13:23

Analyst(s): REB



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/7/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270C-SIM  
**Unit:** mg/kg

### Polynuclear Aromatic Hydrocarbons (PNAs) using SIM Mode w/ GPC Clean-up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-0.0	2001093-013A	Soil	01/03/2020 10:12	GC21 01072013.D	191794

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.012	0.013	10	01/07/2020 13:50
Acenaphthylene	ND		0.012	0.013	10	01/07/2020 13:50
Anthracene	ND		0.0096	0.013	10	01/07/2020 13:50
Benzo (a) anthracene	<b>0.10</b>		0.044	0.050	10	01/07/2020 13:50
Benzo (a) pyrene	<b>0.025</b>		0.011	0.025	10	01/07/2020 13:50
Benzo (b) fluoranthene	ND		0.012	0.063	10	01/07/2020 13:50
Benzo (g,h,i) perylene	<b>0.047</b>		0.010	0.025	10	01/07/2020 13:50
Benzo (k) fluoranthene	ND		0.010	0.013	10	01/07/2020 13:50
Chrysene	<b>0.015</b>	J	0.0098	0.025	10	01/07/2020 13:50
Dibenzo (a,h) anthracene	ND		0.011	0.025	10	01/07/2020 13:50
Fluoranthene	ND		0.011	0.013	10	01/07/2020 13:50
Fluorene	ND		0.019	0.025	10	01/07/2020 13:50
Indeno (1,2,3-cd) pyrene	ND		0.010	0.025	10	01/07/2020 13:50
1-Methylnaphthalene	ND		0.011	0.013	10	01/07/2020 13:50
2-Methylnaphthalene	ND		0.018	0.025	10	01/07/2020 13:50
Naphthalene	ND		0.013	0.013	10	01/07/2020 13:50
Phenanthrene	ND		0.011	0.050	10	01/07/2020 13:50
Pyrene	<b>0.035</b>		0.012	0.025	10	01/07/2020 13:50

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorophenol	67	51-142	01/07/2020 13:50
2-Fluorobiphenyl	73	46-140	01/07/2020 13:50

Analyst(s): REB



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/7/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270C-SIM  
**Unit:** mg/kg

### Polynuclear Aromatic Hydrocarbons (PNAs) using SIM Mode w/ GPC Clean-up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-0.0	2001093-019A	Soil	01/02/2020 14:40	GC21 01072014.D	191794

Analytes	Result	MDL	RL	DF	Date Analyzed
Acenaphthene	0.0071	0.0060	0.0065	5	01/07/2020 14:18
Acenaphthylene	0.20	0.0060	0.0065	5	01/07/2020 14:18
Anthracene	0.027	0.0048	0.0065	5	01/07/2020 14:18
Benzo (a) anthracene	0.21	0.022	0.025	5	01/07/2020 14:18
Benzo (a) pyrene	0.14	0.0055	0.012	5	01/07/2020 14:18
Benzo (b) fluoranthene	0.31	0.0060	0.032	5	01/07/2020 14:18
Benzo (g,h,i) perylene	0.22	0.0050	0.012	5	01/07/2020 14:18
Benzo (k) fluoranthene	0.12	0.0050	0.0065	5	01/07/2020 14:18
Chrysene	0.32	0.0049	0.012	5	01/07/2020 14:18
Dibenzo (a,h) anthracene	0.064	0.0055	0.012	5	01/07/2020 14:18
Fluoranthene	0.25	0.0055	0.0065	5	01/07/2020 14:18
Fluorene	0.032	0.0095	0.012	5	01/07/2020 14:18
Indeno (1,2,3-cd) pyrene	0.21	0.0050	0.012	5	01/07/2020 14:18
1-Methylnaphthalene	0.023	0.0055	0.0065	5	01/07/2020 14:18
2-Methylnaphthalene	0.037	0.0090	0.012	5	01/07/2020 14:18
Naphthalene	0.061	0.0065	0.0065	5	01/07/2020 14:18
Phenanthrene	0.23	0.0055	0.025	5	01/07/2020 14:18
Pyrene	0.36	0.0060	0.012	5	01/07/2020 14:18

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorophenol	53	51-142	01/07/2020 14:18
2-Fluorobiphenyl	64	46-140	01/07/2020 14:18

**Analyst(s):** REB



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/7/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270C-SIM  
**Unit:** mg/kg

### Polynuclear Aromatic Hydrocarbons (PNAs) using SIM Mode w/ GPC Clean-up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-5-0.0	2001093-024A	Soil	01/02/2020 15:30	GC21 01072015.D	191794

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.0060	0.0065	5	01/07/2020 14:45
Acenaphthylene	ND		0.0060	0.0065	5	01/07/2020 14:45
Anthracene	ND		0.0048	0.0065	5	01/07/2020 14:45
Benzo (a) anthracene	<b>0.024</b>	J	0.022	0.025	5	01/07/2020 14:45
Benzo (a) pyrene	<b>0.016</b>		0.0055	0.012	5	01/07/2020 14:45
Benzo (b) fluoranthene	<b>0.025</b>	J	0.0060	0.032	5	01/07/2020 14:45
Benzo (g,h,i) perylene	<b>0.025</b>		0.0050	0.012	5	01/07/2020 14:45
Benzo (k) fluoranthene	ND		0.0050	0.0065	5	01/07/2020 14:45
Chrysene	<b>0.018</b>		0.0049	0.012	5	01/07/2020 14:45
Dibenzo (a,h) anthracene	<b>0.013</b>		0.0055	0.012	5	01/07/2020 14:45
Fluoranthene	ND		0.0055	0.0065	5	01/07/2020 14:45
Fluorene	ND		0.0095	0.012	5	01/07/2020 14:45
Indeno (1,2,3-cd) pyrene	ND		0.0050	0.012	5	01/07/2020 14:45
1-Methylnaphthalene	ND		0.0055	0.0065	5	01/07/2020 14:45
2-Methylnaphthalene	ND		0.0090	0.012	5	01/07/2020 14:45
Naphthalene	ND		0.0065	0.0065	5	01/07/2020 14:45
Phenanthrene	<b>0.024</b>	J	0.0055	0.025	5	01/07/2020 14:45
Pyrene	<b>0.021</b>		0.0060	0.012	5	01/07/2020 14:45

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorophenol	61	51-142	01/07/2020 14:45
2-Fluorobiphenyl	63	46-140	01/07/2020 14:45

Analyst(s): REB



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/7/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270C-SIM  
**Unit:** mg/kg

### Polynuclear Aromatic Hydrocarbons (PNAs) using SIM Mode w/ GPC Clean-up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-5-3.0	2001093-025A	Soil	01/02/2020 15:30	GC21 01072016.D	191794

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.0012	0.0013	1	01/07/2020 15:12
Acenaphthylene	ND		0.0012	0.0013	1	01/07/2020 15:12
Anthracene	ND		0.00096	0.0013	1	01/07/2020 15:12
Benzo (a) anthracene	ND		0.0044	0.0050	1	01/07/2020 15:12
Benzo (a) pyrene	ND		0.0011	0.0025	1	01/07/2020 15:12
Benzo (b) fluoranthene	ND		0.0012	0.0063	1	01/07/2020 15:12
Benzo (g,h,i) perylene	<b>0.0011</b>	J	0.0010	0.0025	1	01/07/2020 15:12
Benzo (k) fluoranthene	ND		0.0010	0.0013	1	01/07/2020 15:12
Chrysene	ND		0.00098	0.0025	1	01/07/2020 15:12
Dibenzo (a,h) anthracene	ND		0.0011	0.0025	1	01/07/2020 15:12
Fluoranthene	ND		0.0011	0.0013	1	01/07/2020 15:12
Fluorene	ND		0.0019	0.0025	1	01/07/2020 15:12
Indeno (1,2,3-cd) pyrene	ND		0.0010	0.0025	1	01/07/2020 15:12
1-Methylnaphthalene	ND		0.0011	0.0013	1	01/07/2020 15:12
2-Methylnaphthalene	ND		0.0018	0.0025	1	01/07/2020 15:12
Naphthalene	ND		0.0013	0.0013	1	01/07/2020 15:12
Phenanthrene	ND		0.0011	0.0050	1	01/07/2020 15:12
Pyrene	<b>0.0015</b>	J	0.0012	0.0025	1	01/07/2020 15:12

Surrogates	REC (%)	Limits	
2-Fluorophenol	73	51-142	01/07/2020 15:12
2-Fluorobiphenyl	70	46-140	01/07/2020 15:12

Analyst(s): REB





## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-0.0	2001093-001A	Soil	01/03/2020 07:45	ICP-MS3 027SMPL.D	191668

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Antimony	2.9		0.094	0.50	1	01/06/2020 20:09
Arsenic	3.7		0.14	0.50	1	01/06/2020 20:09
Barium	120		0.97	5.0	1	01/06/2020 20:09
Beryllium	0.27	J	0.072	0.50	1	01/06/2020 20:09
Cadmium	0.48		0.058	0.25	1	01/06/2020 20:09
Chromium	32		0.092	0.50	1	01/06/2020 20:09
Cobalt	4.1		0.056	0.50	1	01/06/2020 20:09
Copper	8.0		0.069	0.50	1	01/06/2020 20:09
Lead	28		0.094	0.50	1	01/06/2020 20:09
Mercury	0.082		0.0050	0.050	1	01/06/2020 20:09
Molybdenum	0.26	J	0.23	0.50	1	01/06/2020 20:09
Nickel	20		0.072	0.50	1	01/06/2020 20:09
Selenium	0.16	J	0.13	0.50	1	01/06/2020 20:09
Silver	ND		0.055	0.50	1	01/06/2020 20:09
Thallium	ND		0.10	0.50	1	01/06/2020 20:09
Vanadium	27		0.064	0.50	1	01/06/2020 20:09
Zinc	98		1.4	5.0	1	01/06/2020 20:09

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	101	70-130	01/06/2020 20:09

Analyst(s): JC



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-3.0	2001093-002A	Soil	01/03/2020 07:50	ICP-MS3 028SMPL.D	191668

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Antimony	0.14	J	0.094	0.50	1	01/06/2020 20:15
Arsenic	1.7		0.14	0.50	1	01/06/2020 20:15
Barium	48		0.97	5.0	1	01/06/2020 20:15
Beryllium	0.20	J	0.072	0.50	1	01/06/2020 20:15
Cadmium	ND		0.058	0.25	1	01/06/2020 20:15
Chromium	35		0.092	0.50	1	01/06/2020 20:15
Cobalt	3.3		0.056	0.50	1	01/06/2020 20:15
Copper	5.9		0.069	0.50	1	01/06/2020 20:15
Lead	2.8		0.094	0.50	1	01/06/2020 20:15
Mercury	0.020	J	0.0050	0.050	1	01/06/2020 20:15
Molybdenum	ND		0.23	0.50	1	01/06/2020 20:15
Nickel	18		0.072	0.50	1	01/06/2020 20:15
Selenium	ND		0.13	0.50	1	01/06/2020 20:15
Silver	ND		0.055	0.50	1	01/06/2020 20:15
Thallium	ND		0.10	0.50	1	01/06/2020 20:15
Vanadium	25		0.064	0.50	1	01/06/2020 20:15
Zinc	16		1.4	5.0	1	01/06/2020 20:15

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	103	70-130	01/06/2020 20:15

Analyst(s): JC



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-5.0	2001093-003A	Soil	01/03/2020 08:32	ICP-MS3 029SMPL.D	191668

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Antimony	0.21	J	0.094	0.50	1	01/06/2020 20:21
Arsenic	3.2		0.14	0.50	1	01/06/2020 20:21
Barium	54		0.97	5.0	1	01/06/2020 20:21
Beryllium	0.32	J	0.072	0.50	1	01/06/2020 20:21
Cadmium	ND		0.058	0.25	1	01/06/2020 20:21
Chromium	50		0.092	0.50	1	01/06/2020 20:21
Cobalt	7.7		0.056	0.50	1	01/06/2020 20:21
Copper	7.8		0.069	0.50	1	01/06/2020 20:21
Lead	3.1		0.094	0.50	1	01/06/2020 20:21
Mercury	0.018	J	0.0050	0.050	1	01/06/2020 20:21
Molybdenum	0.25	J	0.23	0.50	1	01/06/2020 20:21
Nickel	35		0.072	0.50	1	01/06/2020 20:21
Selenium	0.15	J	0.13	0.50	1	01/06/2020 20:21
Silver	ND		0.055	0.50	1	01/06/2020 20:21
Thallium	ND		0.10	0.50	1	01/06/2020 20:21
Vanadium	40		0.064	0.50	1	01/06/2020 20:21
Zinc	23		1.4	5.0	1	01/06/2020 20:21

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	107	70-130	01/06/2020 20:21

**Analyst(s):** JC



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-0.0	2001093-007A	Soil	01/03/2020 08:45	ICP-MS3 030SMPL.D	191668

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Antimony	0.44	J	0.094	0.50	1	01/06/2020 20:27
Arsenic	5.4		0.14	0.50	1	01/06/2020 20:27
Barium	230		0.97	5.0	1	01/06/2020 20:27
Beryllium	0.48	J	0.072	0.50	1	01/06/2020 20:27
Cadmium	0.084	J	0.058	0.25	1	01/06/2020 20:27
Chromium	37		0.092	0.50	1	01/06/2020 20:27
Cobalt	6.4		0.056	0.50	1	01/06/2020 20:27
Copper	18		0.069	0.50	1	01/06/2020 20:27
Lead	53		0.094	0.50	1	01/06/2020 20:27
Mercury	0.21		0.0050	0.050	1	01/06/2020 20:27
Molybdenum	0.66		0.23	0.50	1	01/06/2020 20:27
Nickel	31		0.072	0.50	1	01/06/2020 20:27
Selenium	0.14	J	0.13	0.50	1	01/06/2020 20:27
Silver	ND		0.055	0.50	1	01/06/2020 20:27
Thallium	ND		0.10	0.50	1	01/06/2020 20:27
Vanadium	42		0.064	0.50	1	01/06/2020 20:27
Zinc	50		1.4	5.0	1	01/06/2020 20:27

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	103	70-130	01/06/2020 20:27

Analyst(s): JC



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-3.0	2001093-008A	Soil	01/03/2020 08:50	ICP-MS3 047SMPL.D	191668

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Antimony	0.43	J	0.094	0.50	1	01/07/2020 15:17
Arsenic	1.9		0.14	0.50	1	01/07/2020 15:17
Barium	52		0.97	5.0	1	01/07/2020 15:17
Beryllium	0.20	J	0.072	0.50	1	01/07/2020 15:17
Cadmium	ND		0.058	0.25	1	01/07/2020 15:17
Chromium	35		0.092	0.50	1	01/07/2020 15:17
Cobalt	3.8		0.056	0.50	1	01/07/2020 15:17
Copper	6.0		0.069	0.50	1	01/07/2020 15:17
Lead	2.8		0.094	0.50	1	01/07/2020 15:17
Mercury	0.014	J	0.0050	0.050	1	01/07/2020 15:17
Molybdenum	0.24	J	0.23	0.50	1	01/07/2020 15:17
Nickel	18		0.072	0.50	1	01/07/2020 15:17
Selenium	0.21	J	0.13	0.50	1	01/07/2020 15:17
Silver	ND		0.055	0.50	1	01/07/2020 15:17
Thallium	ND		0.10	0.50	1	01/07/2020 15:17
Vanadium	26		0.064	0.50	1	01/07/2020 15:17
Zinc	17		1.4	5.0	1	01/07/2020 15:17

Surrogates	REC (%)	Limits	
Terbium	108	70-130	01/07/2020 15:17

Analyst(s): JC



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-5.0	2001093-009A	Soil	01/03/2020 09:25	ICP-MS3 048SMPL.D	191668

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Antimony	0.23	J	0.094	0.50	1	01/07/2020 15:23
Arsenic	3.2		0.14	0.50	1	01/07/2020 15:23
Barium	70		0.97	5.0	1	01/07/2020 15:23
Beryllium	0.37	J	0.072	0.50	1	01/07/2020 15:23
Cadmium	ND		0.058	0.25	1	01/07/2020 15:23
Chromium	72		0.092	0.50	1	01/07/2020 15:23
Cobalt	5.0		0.056	0.50	1	01/07/2020 15:23
Copper	9.6		0.069	0.50	1	01/07/2020 15:23
Lead	3.7		0.094	0.50	1	01/07/2020 15:23
Mercury	0.030	J	0.0050	0.050	1	01/07/2020 15:23
Molybdenum	0.31	J	0.23	0.50	1	01/07/2020 15:23
Nickel	43		0.072	0.50	1	01/07/2020 15:23
Selenium	0.25	J	0.13	0.50	1	01/07/2020 15:23
Silver	ND		0.055	0.50	1	01/07/2020 15:23
Thallium	ND		0.10	0.50	1	01/07/2020 15:23
Vanadium	49		0.064	0.50	1	01/07/2020 15:23
Zinc	29		1.4	5.0	1	01/07/2020 15:23

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	105	70-130	01/07/2020 15:23

**Analyst(s):** JC



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-0.0	2001093-013A	Soil	01/03/2020 10:12	ICP-MS3 041SMPL.D	191668

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Antimony	0.26	J	0.094	0.50	1	01/08/2020 18:15
Arsenic	3.5		0.14	0.50	1	01/08/2020 18:15
Barium	250		0.97	5.0	1	01/08/2020 18:15
Beryllium	0.91		0.072	0.50	1	01/08/2020 18:15
Cadmium	0.11	J	0.058	0.25	1	01/08/2020 18:15
Chromium	15		0.092	0.50	1	01/08/2020 18:15
Cobalt	11		0.056	0.50	1	01/08/2020 18:15
Copper	18		0.069	0.50	1	01/08/2020 18:15
Lead	20		0.094	0.50	1	01/08/2020 18:15
Mercury	0.43		0.0050	0.050	1	01/08/2020 18:15
Molybdenum	0.44	J	0.23	0.50	1	01/08/2020 18:15
Nickel	24		0.072	0.50	1	01/08/2020 18:15
Selenium	0.30	J	0.13	0.50	1	01/08/2020 18:15
Silver	ND		0.055	0.50	1	01/08/2020 18:15
Thallium	0.12	J	0.10	0.50	1	01/08/2020 18:15
Vanadium	29		0.064	0.50	1	01/08/2020 18:15
Zinc	55		1.4	5.0	1	01/08/2020 18:15

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	117	70-130	01/08/2020 18:15

**Analyst(s):** MIG



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-3.0	2001093-014A	Soil	01/03/2020 10:14	ICP-MS2 026SMPL.D	191702

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Antimony	3.0		0.094	0.50	1	01/06/2020 11:44
Arsenic	4.7		0.14	0.50	1	01/06/2020 11:44
Barium	200		0.97	5.0	1	01/06/2020 11:44
Beryllium	0.29	J	0.072	0.50	1	01/06/2020 11:44
Cadmium	0.44		0.058	0.25	1	01/06/2020 11:44
Chromium	39		0.092	0.50	1	01/06/2020 11:44
Cobalt	5.6		0.056	0.50	1	01/06/2020 11:44
Copper	27		0.069	0.50	1	01/06/2020 11:44
Lead	380		0.094	0.50	1	01/06/2020 11:44
Mercury	0.97		0.0050	0.050	1	01/06/2020 11:44
Molybdenum	0.50	J	0.23	0.50	1	01/06/2020 11:44
Nickel	24		0.072	0.50	1	01/06/2020 11:44
Selenium	ND		0.13	0.50	1	01/06/2020 11:44
Silver	0.12	J	0.055	0.50	1	01/06/2020 11:44
Thallium	ND		0.10	0.50	1	01/06/2020 11:44
Vanadium	29		0.064	0.50	1	01/06/2020 11:44
Zinc	390		1.4	5.0	1	01/06/2020 11:44

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	108	70-130	01/06/2020 11:44

Analyst(s): ND





## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-5.0	2001093-015A	Soil	01/03/2020 11:15	ICP-MS3 042SMPL.D	191702

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Antimony	0.16	J	0.094	0.50	1	01/08/2020 18:21
Arsenic	2.6		0.14	0.50	1	01/08/2020 18:21
Barium	49		0.97	5.0	1	01/08/2020 18:21
Beryllium	0.27	J	0.072	0.50	1	01/08/2020 18:21
Cadmium	ND		0.058	0.25	1	01/08/2020 18:21
Chromium	53		0.092	0.50	1	01/08/2020 18:21
Cobalt	7.8		0.056	0.50	1	01/08/2020 18:21
Copper	7.6		0.069	0.50	1	01/08/2020 18:21
Lead	3.1		0.094	0.50	1	01/08/2020 18:21
Mercury	0.025	J	0.0050	0.050	1	01/08/2020 18:21
Molybdenum	0.27	J	0.23	0.50	1	01/08/2020 18:21
Nickel	33		0.072	0.50	1	01/08/2020 18:21
Selenium	0.13	J	0.13	0.50	1	01/08/2020 18:21
Silver	ND		0.055	0.50	1	01/08/2020 18:21
Thallium	ND		0.10	0.50	1	01/08/2020 18:21
Vanadium	37		0.064	0.50	1	01/08/2020 18:21
Zinc	23		1.4	5.0	1	01/08/2020 18:21

Surrogates	REC (%)	Limits	
Terbium	106	70-130	01/08/2020 18:21

Analyst(s): MIG



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-0.0	2001093-019A	Soil	01/02/2020 14:40	ICP-MS3 043SMPL.D	191702

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Antimony	0.41	J	0.094	0.50	1	01/08/2020 18:27
Arsenic	10		0.14	0.50	1	01/08/2020 18:27
Barium	420		0.97	5.0	1	01/08/2020 18:27
Beryllium	0.67		0.072	0.50	1	01/08/2020 18:27
Cadmium	0.12	J	0.058	0.25	1	01/08/2020 18:27
Chromium	33		0.092	0.50	1	01/08/2020 18:27
Cobalt	6.4		0.056	0.50	1	01/08/2020 18:27
Copper	20		0.069	0.50	1	01/08/2020 18:27
Lead	110		0.094	0.50	1	01/08/2020 18:27
Mercury	0.87		0.0050	0.050	1	01/08/2020 18:27
Molybdenum	0.46	J	0.23	0.50	1	01/08/2020 18:27
Nickel	31		0.072	0.50	1	01/08/2020 18:27
Selenium	0.14	J	0.13	0.50	1	01/08/2020 18:27
Silver	ND		0.055	0.50	1	01/08/2020 18:27
Thallium	ND		0.10	0.50	1	01/08/2020 18:27
Vanadium	36		0.064	0.50	1	01/08/2020 18:27
Zinc	62		1.4	5.0	1	01/08/2020 18:27

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	109	70-130	01/08/2020 18:27

Analyst(s): MIG



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-3.0	2001093-020A	Soil	01/02/2020 14:45	ICP-MS3 044SMPL.D	191702

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Antimony	0.16	J	0.094	0.50	1	01/08/2020 18:33
Arsenic	2.4		0.14	0.50	1	01/08/2020 18:33
Barium	78		0.97	5.0	1	01/08/2020 18:33
Beryllium	0.24	J	0.072	0.50	1	01/08/2020 18:33
Cadmium	0.072	J	0.058	0.25	1	01/08/2020 18:33
Chromium	46		0.092	0.50	1	01/08/2020 18:33
Cobalt	4.8		0.056	0.50	1	01/08/2020 18:33
Copper	8.7		0.069	0.50	1	01/08/2020 18:33
Lead	10		0.094	0.50	1	01/08/2020 18:33
Mercury	0.037	J	0.0050	0.050	1	01/08/2020 18:33
Molybdenum	0.25	J	0.23	0.50	1	01/08/2020 18:33
Nickel	23		0.072	0.50	1	01/08/2020 18:33
Selenium	0.15	J	0.13	0.50	1	01/08/2020 18:33
Silver	ND		0.055	0.50	1	01/08/2020 18:33
Thallium	ND		0.10	0.50	1	01/08/2020 18:33
Vanadium	32		0.064	0.50	1	01/08/2020 18:33
Zinc	22		1.4	5.0	1	01/08/2020 18:33

Surrogates	REC (%)	Limits	
Terbium	124	70-130	01/08/2020 18:33

Analyst(s): MIG



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-5.0	2001093-021A	Soil	01/02/2020 15:00	ICP-MS3 114SMPL.D	191702

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Antimony	0.19	J	0.094	0.50	1	01/09/2020 01:45
Arsenic	3.2		0.14	0.50	1	01/09/2020 01:45
Barium	63		0.97	5.0	1	01/09/2020 01:45
Beryllium	0.34	J	0.072	0.50	1	01/09/2020 01:45
Cadmium	ND		0.058	0.25	1	01/09/2020 01:45
Chromium	60		0.092	0.50	1	01/09/2020 01:45
Cobalt	7.2		0.056	0.50	1	01/09/2020 01:45
Copper	8.6		0.069	0.50	1	01/09/2020 01:45
Lead	3.7		0.094	0.50	1	01/09/2020 01:45
Mercury	0.061		0.0050	0.050	1	01/09/2020 01:45
Molybdenum	0.25	J	0.23	0.50	1	01/09/2020 01:45
Nickel	40		0.072	0.50	1	01/09/2020 01:45
Selenium	0.17	J	0.13	0.50	1	01/09/2020 01:45
Silver	ND		0.055	0.50	1	01/09/2020 01:45
Thallium	ND		0.10	0.50	1	01/09/2020 01:45
Vanadium	43		0.064	0.50	1	01/09/2020 01:45
Zinc	26		1.4	5.0	1	01/09/2020 01:45

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	118	70-130	01/09/2020 01:45

**Analyst(s):** JC



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-5-0.0	2001093-024A	Soil	01/02/2020 15:30	ICP-MS3 046SMPL.D	191702

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Antimony	0.46	J	0.094	0.50	1	01/08/2020 18:46
Arsenic	4.8		0.14	0.50	1	01/08/2020 18:46
Barium	280		0.97	5.0	1	01/08/2020 18:46
Beryllium	0.71		0.072	0.50	1	01/08/2020 18:46
Cadmium	0.098	J	0.058	0.25	1	01/08/2020 18:46
Chromium	16		0.092	0.50	1	01/08/2020 18:46
Cobalt	11		0.056	0.50	1	01/08/2020 18:46
Copper	24		0.069	0.50	1	01/08/2020 18:46
Lead	27		0.094	0.50	1	01/08/2020 18:46
Mercury	0.49		0.0050	0.050	1	01/08/2020 18:46
Molybdenum	0.37	J	0.23	0.50	1	01/08/2020 18:46
Nickel	28		0.072	0.50	1	01/08/2020 18:46
Selenium	0.36	J	0.13	0.50	1	01/08/2020 18:46
Silver	ND		0.055	0.50	1	01/08/2020 18:46
Thallium	0.14	J	0.10	0.50	1	01/08/2020 18:46
Vanadium	33		0.064	0.50	1	01/08/2020 18:46
Zinc	62		1.4	5.0	1	01/08/2020 18:46

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	109	70-130	01/08/2020 18:46

**Analyst(s):** MIG



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-5-3.0	2001093-025A	Soil	01/02/2020 15:30	ICP-MS3 047SMPL.D	191702

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Antimony	0.26	J	0.094	0.50	1	01/08/2020 18:52
Arsenic	2.0		0.14	0.50	1	01/08/2020 18:52
Barium	48		0.97	5.0	1	01/08/2020 18:52
Beryllium	0.20	J	0.072	0.50	1	01/08/2020 18:52
Cadmium	ND		0.058	0.25	1	01/08/2020 18:52
Chromium	37		0.092	0.50	1	01/08/2020 18:52
Cobalt	3.5		0.056	0.50	1	01/08/2020 18:52
Copper	11		0.069	0.50	1	01/08/2020 18:52
Lead	29		0.094	0.50	1	01/08/2020 18:52
Mercury	0.21		0.0050	0.050	1	01/08/2020 18:52
Molybdenum	ND		0.23	0.50	1	01/08/2020 18:52
Nickel	17		0.072	0.50	1	01/08/2020 18:52
Selenium	ND		0.13	0.50	1	01/08/2020 18:52
Silver	ND		0.055	0.50	1	01/08/2020 18:52
Thallium	ND		0.10	0.50	1	01/08/2020 18:52
Vanadium	26		0.064	0.50	1	01/08/2020 18:52
Zinc	24		1.4	5.0	1	01/08/2020 18:52

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	111	70-130	01/08/2020 18:52

**Analyst(s):** MIG



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-5-5.0	2001093-026A	Soil	01/02/2020 15:50	ICP-MS3 048SMPL.D	191702

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Antimony	0.21	J	0.094	0.50	1	01/08/2020 18:58
Arsenic	3.3		0.14	0.50	1	01/08/2020 18:58
Barium	81		0.97	5.0	1	01/08/2020 18:58
Beryllium	0.39	J	0.072	0.50	1	01/08/2020 18:58
Cadmium	0.060	J	0.058	0.25	1	01/08/2020 18:58
Chromium	72		0.092	0.50	1	01/08/2020 18:58
Cobalt	7.1		0.056	0.50	1	01/08/2020 18:58
Copper	9.8		0.069	0.50	1	01/08/2020 18:58
Lead	4.5		0.094	0.50	1	01/08/2020 18:58
Mercury	0.033	J	0.0050	0.050	1	01/08/2020 18:58
Molybdenum	0.42	J	0.23	0.50	1	01/08/2020 18:58
Nickel	47		0.072	0.50	1	01/08/2020 18:58
Selenium	0.18	J	0.13	0.50	1	01/08/2020 18:58
Silver	ND		0.055	0.50	1	01/08/2020 18:58
Thallium	0.11	J	0.10	0.50	1	01/08/2020 18:58
Vanadium	47		0.064	0.50	1	01/08/2020 18:58
Zinc	32		1.4	5.0	1	01/08/2020 18:58

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	123	70-130	01/08/2020 18:58

**Analyst(s):** MIG



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/6/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** CARB 435 Asbestos  
**Analytical Method:** 435 CARB  
**Unit:** %

### Asbestos (CARB 435) 400 Point Count

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-0.0	2001093-001A	Soil	01/03/2020 07:45	Microscope	191903

Analytes	Result	RL	DF	Date Analyzed
Asbestos	ND	NA	1	01/08/2020 09:30

Analyst(s): DA

Analytical Comments: k10

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-0.0	2001093-007A	Soil	01/03/2020 08:45	Microscope	191903

Analytes	Result	RL	DF	Date Analyzed
Asbestos	ND	NA	1	01/08/2020 10:20

Analyst(s): DA

Analytical Comments: k10

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-0.0	2001093-013A	Soil	01/03/2020 10:12	Microscope	191903

Analytes	Result	RL	DF	Date Analyzed
Asbestos	ND	NA	1	01/08/2020 10:45

Analyst(s): DA

Analytical Comments: k10

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-0.0	2001093-019A	Soil	01/02/2020 14:40	Microscope	191903

Analytes	Result	RL	DF	Date Analyzed
Asbestos	ND	NA	1	01/08/2020 11:10

Analyst(s): DA

Analytical Comments: k10

(Cont.)





# Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/6/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** CARB 435 Asbestos  
**Analytical Method:** 435 CARB  
**Unit:** %

## Asbestos (CARB 435) 400 Point Count

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-5-0.0	2001093-024A	Soil	01/02/2020 15:30	Microscope	191903

Analytes	Result	RL	DF	Date Analyzed
Asbestos	ND	NA	1	01/08/2020 11:35

Analyst(s): DA

Analytical Comments: k10



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW7471B  
**Analytical Method:** SW7471B  
**Unit:** mg/Kg

### Mercury by Cold Vapor Atomic Absorption

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-0.0	2001093-001A	Soil	01/03/2020 07:45	AA1 _19	191703

Analytes	Result	MDL	RL	DF	Date Analyzed
Mercury	0.070	0.015	0.017	1	01/06/2020 13:35

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-3.0	2001093-002A	Soil	01/03/2020 07:50	AA1 _23	191703

Analytes	Result	MDL	RL	DF	Date Analyzed
Mercury	ND	0.015	0.017	1	01/06/2020 13:47

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-5.0	2001093-003A	Soil	01/03/2020 08:32	AA1 _24	191703

Analytes	Result	MDL	RL	DF	Date Analyzed
Mercury	ND	0.015	0.017	1	01/06/2020 13:50

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-0.0	2001093-007A	Soil	01/03/2020 08:45	AA1 _25	191703

Analytes	Result	MDL	RL	DF	Date Analyzed
Mercury	0.14	0.015	0.017	1	01/06/2020 13:53

Analyst(s): JC

(Cont.)



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW7471B  
**Analytical Method:** SW7471B  
**Unit:** mg/Kg

### Mercury by Cold Vapor Atomic Absorption

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-3.0	2001093-008A	Soil	01/03/2020 08:50	AA1 _26	191703

Analytes	Result	MDL	RL	DF	Date Analyzed
Mercury	ND	0.015	0.017	1	01/06/2020 13:56

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-5.0	2001093-009A	Soil	01/03/2020 09:25	AA1 _27	191703

Analytes	Result	MDL	RL	DF	Date Analyzed
Mercury	0.031	0.015	0.017	1	01/06/2020 13:59

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-0.0	2001093-013A	Soil	01/03/2020 10:12	AA1 _10	191703

Analytes	Result	MDL	RL	DF	Date Analyzed
Mercury	0.66	0.075	0.085	5	01/06/2020 15:50

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-3.0	2001093-014A	Soil	01/03/2020 10:14	AA1 _11	191703

Analytes	Result	MDL	RL	DF	Date Analyzed
Mercury	1.1	0.075	0.085	5	01/06/2020 15:53

Analyst(s): JC



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW7471B  
**Analytical Method:** SW7471B  
**Unit:** mg/Kg

### Mercury by Cold Vapor Atomic Absorption

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-5.0	2001093-015A	Soil	01/03/2020 11:15	AA1 _03	191703

Analytes	Result	MDL	RL	DF	Date Analyzed
Mercury	0.075	0.015	0.017	1	01/06/2020 15:29

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-0.0	2001093-019A	Soil	01/02/2020 14:40	AA1 _04	191703

Analytes	Result	MDL	RL	DF	Date Analyzed
Mercury	0.22	0.015	0.017	1	01/06/2020 15:32

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-3.0	2001093-020A	Soil	01/02/2020 14:45	AA1 _05	191703

Analytes	Result	MDL	RL	DF	Date Analyzed
Mercury	0.027	0.015	0.017	1	01/06/2020 15:35

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-5.0	2001093-021A	Soil	01/02/2020 15:00	AA1 _06	191703

Analytes	Result	MDL	RL	DF	Date Analyzed
Mercury	0.026	0.015	0.017	1	01/06/2020 15:38

Analyst(s): JC



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW7471B  
**Analytical Method:** SW7471B  
**Unit:** mg/Kg

### Mercury by Cold Vapor Atomic Absorption

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-5-0.0	2001093-024A	Soil	01/02/2020 15:30	AA1 _12	191703

Analytes	Result	MDL	RL	DF	Date Analyzed
Mercury	0.40	0.075	0.085	5	01/06/2020 15:56

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-5-3.0	2001093-025A	Soil	01/02/2020 15:30	AA1 _08	191703

Analytes	Result	MDL	RL	DF	Date Analyzed
Mercury	0.034	0.015	0.017	1	01/06/2020 15:44

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-5-5.0	2001093-026A	Soil	01/02/2020 15:50	AA1 _09	191703

Analytes	Result	MDL	RL	DF	Date Analyzed
Mercury	0.018	0.015	0.017	1	01/06/2020 15:47

Analyst(s): JC



# Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8015B  
**Unit:** mg/Kg

## Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-0.0	2001093-001A	Soil	01/03/2020 07:45	GC31A 01062028.D	191687
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	15	1.7	2.0	2	01/06/2020 18:59
TPH-Motor Oil (C18-C36)	150	7.6	10	2	01/06/2020 18:59
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C9	102	70-130			01/06/2020 18:59
<u>Analyst(s):</u>	JIS		<u>Analytical Comments:</u> e2,e7		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-3.0	2001093-002A	Soil	01/03/2020 07:50	GC31B 01062011.D	191687
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	0.83	1.0	1	01/06/2020 13:47
TPH-Motor Oil (C18-C36)	7.8	3.8	5.0	1	01/06/2020 13:47
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C9	103	70-130			01/06/2020 13:47
<u>Analyst(s):</u>	JIS		<u>Analytical Comments:</u> e7		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-5.0	2001093-003A	Soil	01/03/2020 08:32	GC31A 01062020.D	191687
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	0.83	1.0	1	01/06/2020 16:23
TPH-Motor Oil (C18-C36)	ND	3.8	5.0	1	01/06/2020 16:23
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C9	103	70-130			01/06/2020 16:23
<u>Analyst(s):</u>	JIS				

(Cont.)



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8015B  
**Unit:** mg/Kg

### Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
RB-2-0.0	2001093-007A	Soil	01/03/2020 08:45	GC31B 01062023.D	191687	
<u>Analytes</u>	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	160		8.3	10	10	01/06/2020 17:41
TPH-Motor Oil (C18-C36)	1100		38	50	10	01/06/2020 17:41
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
C9	100		70-130			01/06/2020 17:41
<u>Analyst(s):</u> JIS			<u>Analytical Comments:</u> e2,e7,e8			

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
RB-2-3.0	2001093-008A	Soil	01/03/2020 08:50	GC31B 01062015.D	191687	
<u>Analytes</u>	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		0.83	1.0	1	01/06/2020 15:05
TPH-Motor Oil (C18-C36)	ND		3.8	5.0	1	01/06/2020 15:05
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
C9	104		70-130			01/06/2020 15:05
<u>Analyst(s):</u> JIS						

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
RB-3-0.0	2001093-013A	Soil	01/03/2020 10:12	GC31A 01062066.D	191687	
<u>Analytes</u>	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	120		8.3	10	10	01/07/2020 07:19
TPH-Motor Oil (C18-C36)	990		38	50	10	01/07/2020 07:19
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
C9	102		70-130			01/07/2020 07:19
<u>Analyst(s):</u> JIS			<u>Analytical Comments:</u> e2,e7,e8			

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## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8015B  
**Unit:** mg/Kg

### Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-3.0	2001093-014A	Soil	01/03/2020 10:14	GC31A 01062034.D	191687

<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	24	1.7	2.0	2	01/06/2020 20:55
TPH-Motor Oil (C18-C36)	260	7.6	10	2	01/06/2020 20:55

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	<u>Date Analyzed</u>
C9	103	70-130	01/06/2020 20:55

**Analyst(s):** JIS **Analytical Comments:** e2,e7,e8

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-0.0	2001093-019A	Soil	01/02/2020 14:40	GC31B 01062029.D	191687

<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	99	8.3	10	10	01/06/2020 19:38
TPH-Motor Oil (C18-C36)	720	38	50	10	01/06/2020 19:38

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	<u>Date Analyzed</u>
C9	97	70-130	01/06/2020 19:38

**Analyst(s):** JIS **Analytical Comments:** e2,e7,e8

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-3.0	2001093-020A	Soil	01/02/2020 14:45	GC31A 01062012.D	191687

<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	0.83	1.0	1	01/06/2020 13:47
TPH-Motor Oil (C18-C36)	ND	3.8	5.0	1	01/06/2020 13:47

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	<u>Date Analyzed</u>
C9	103	70-130	01/06/2020 13:47

**Analyst(s):** JIS

(Cont.)





## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8015B  
**Unit:** mg/Kg

### Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
RB-5-0.0	2001093-024A	Soil	01/02/2020 15:30	GC31B 01062035.D	191687	
<u>Analytes</u>	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	98		8.3	10	10	01/06/2020 21:34
TPH-Motor Oil (C18-C36)	790		38	50	10	01/06/2020 21:34
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
C9	100		70-130			01/06/2020 21:34
<u>Analyst(s):</u> JIS			<u>Analytical Comments:</u> e2,e7,e8			

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
RB-5-3.0	2001093-025A	Soil	01/02/2020 15:30	GC11A 01032092.D	191687	
<u>Analytes</u>	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		0.83	1.0	1	01/04/2020 15:00
TPH-Motor Oil (C18-C36)	8.8		3.8	5.0	1	01/04/2020 15:00
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
C9	93		70-130			01/04/2020 15:00
<u>Analyst(s):</u> JIS			<u>Analytical Comments:</u> e7			

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
RB-5-5.0	2001093-026A	Soil	01/02/2020 15:50	GC31A 01062016.D	191687	
<u>Analytes</u>	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		0.83	1.0	1	01/06/2020 15:05
TPH-Motor Oil (C18-C36)	ND		3.8	5.0	1	01/06/2020 15:05
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
C9	103		70-130			01/06/2020 15:05
<u>Analyst(s):</u> JIS						



## Quality Control Report

<b>Client:</b>	Roux Associates, Inc.	<b>WorkOrder:</b>	2001093
<b>Date Prepared:</b>	1/3/20	<b>BatchID:</b>	191670
<b>Date Analyzed:</b>	1/3/20 - 1/7/20	<b>Extraction Method:</b>	SW3550B/3640Am/3630Cm
<b>Instrument:</b>	GC23	<b>Analytical Method:</b>	SW8081A/8082
<b>Matrix:</b>	Soil	<b>Unit:</b>	mg/kg
<b>Project:</b>	3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b>	MB/LCS/LCSD-191670

### QC Summary Report for SW8081A/8082

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Aldrin	ND	0.000036	0.00010	-	-	-
a-BHC	ND	0.000025	0.00010	-	-	-
b-BHC	ND	0.00025	0.00030	-	-	-
d-BHC	ND	0.00013	0.00020	-	-	-
g-BHC	ND	0.000066	0.00010	-	-	-
Chlordane (Technical)	ND	0.00043	0.0025	-	-	-
a-Chlordane	ND	0.000095	0.00010	-	-	-
g-Chlordane	ND	0.000047	0.00010	-	-	-
p,p-DDD	ND	0.000043	0.00010	-	-	-
p,p-DDE	ND	0.000094	0.00010	-	-	-
p,p-DDT	ND	0.000092	0.00010	-	-	-
Dieldrin	ND	0.000061	0.00010	-	-	-
Endosulfan I	ND	0.000048	0.00010	-	-	-
Endosulfan II	ND	0.000076	0.00010	-	-	-
Endosulfan sulfate	ND	0.000078	0.00010	-	-	-
Endrin	ND	0.000035	0.00010	-	-	-
Endrin aldehyde	ND	0.000067	0.00010	-	-	-
Endrin ketone	ND	0.000084	0.00010	-	-	-
Heptachlor	ND	0.000040	0.00010	-	-	-
Heptachlor epoxide	ND	0.000054	0.00010	-	-	-
Hexachlorobenzene	ND	0.00011	0.0010	-	-	-
Hexachlorocyclopentadiene	ND	0.00034	0.0020	-	-	-
Methoxychlor	ND	0.00013	0.00020	-	-	-
Toxaphene	ND	0.0034	0.0050	-	-	-
Aroclor1016	ND	0.0020	0.0050	-	-	-
Aroclor1221	ND	0.0022	0.0050	-	-	-
Aroclor1232	ND	0.0022	0.0050	-	-	-
Aroclor1242	ND	0.0022	0.0050	-	-	-
Aroclor1248	ND	0.0022	0.0050	-	-	-
Aroclor1254	ND	0.0022	0.0050	-	-	-
Aroclor1260	ND	0.0022	0.0050	-	-	-
<b>Surrogate Recovery</b>						
Decachlorobiphenyl	0.0052			0.005	104	28-170

(Cont.)



## Quality Control Report

<b>Client:</b>	Roux Associates, Inc.	<b>WorkOrder:</b>	2001093
<b>Date Prepared:</b>	1/3/20	<b>BatchID:</b>	191670
<b>Date Analyzed:</b>	1/3/20 - 1/7/20	<b>Extraction Method:</b>	SW3550B/3640Am/3630Cm
<b>Instrument:</b>	GC23	<b>Analytical Method:</b>	SW8081A/8082
<b>Matrix:</b>	Soil	<b>Unit:</b>	mg/kg
<b>Project:</b>	3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b>	MB/LCS/LCSD-191670

### QC Summary Report for SW8081A/8082

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aldrin	0.0055	0.0055	0.0050	110	109	31-155	0.402	20
a-BHC	0.0057	0.0058	0.0050	114	115	32-160	0.988	20
b-BHC	0.0051	0.0053	0.0050	103	106	44-149	3.06	20
d-BHC	0.0056	0.0058	0.0050	113	116	37-157	3.17	20
g-BHC	0.0056	0.0056	0.0050	112	112	43-154	0	20
a-Chlordane	0.0047	0.0049	0.0050	94	99	39-150	5.27	20
g-Chlordane	0.0053	0.0056	0.0050	106	112	39-151	5.45	20
p,p-DDD	0.0048	0.0053	0.0050	97	106	30-158	9.19	20
p,p-DDE	0.0050	0.0054	0.0050	100	108	47-149	8.25	20
p,p-DDT	0.0044	0.0051	0.0050	88	103	56-166	15.4	20
Dieldrin	0.0050	0.0053	0.0050	101	106	50-163	5.21	20
Endosulfan I	0.0050	0.0052	0.0050	101	104	45-159	3.18	20
Endosulfan II	0.0045	0.0048	0.0050	90	97	41-155	7.13	20
Endosulfan sulfate	0.0046	0.0053	0.0050	93	106	45-156	12.9	20
Endrin	0.0050	0.0054	0.0050	100	109	54-154	8.33	20
Endrin aldehyde	0.0042	0.0047	0.0050	83	93	27-159	11.1	20
Endrin ketone	0.0040	0.0047	0.0050	81	94	40-147	14.7	20
Heptachlor	0.0056	0.0058	0.0050	113	116	52-165	2.36	20
Heptachlor epoxide	0.0050	0.0051	0.0050	101	103	46-145	1.81	20
Hexachlorobenzene	0.0050	0.0051	0.0050	100	102	22-156	1.29	20
Hexachlorocyclopentadiene	0.0047	0.0052	0.0050	94	103	43-173	9.47	20
Methoxychlor	0.0039	0.0045	0.0050	77	90	49-150	15.1	20
Aroclor1016	0.013	0.011	0.015	88	75	49-120	15.2	20
Aroclor1260	0.014	0.012	0.015	90	81	48-160	10.4	20
<b>Surrogate Recovery</b>								
Decachlorobiphenyl	0.0037	0.0044	0.0050	73	89	28-170	18.9	20



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 1/3/20  
**Date Analyzed:** 1/7/20  
**Instrument:** GC18  
**Matrix:** Soil  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**BatchID:** 191706  
**Extraction Method:** SW5035  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-191706

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	0.13	0.20	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0016	0.010	-	-	-
Benzene	ND	0.0020	0.010	-	-	-
Bromobenzene	ND	0.0024	0.010	-	-	-
Bromochloromethane	ND	0.0022	0.010	-	-	-
Bromodichloromethane	ND	0.00056	0.0020	-	-	-
Bromoform	0.0071,J	0.0034	0.010	-	-	-
Bromomethane	ND	0.0036	0.010	-	-	-
2-Butanone (MEK)	ND	0.022	0.040	-	-	-
t-Butyl alcohol (TBA)	ND	0.064	0.10	-	-	-
n-Butyl benzene	ND	0.0042	0.010	-	-	-
sec-Butyl benzene	ND	0.0034	0.010	-	-	-
tert-Butyl benzene	ND	0.0026	0.010	-	-	-
Carbon Disulfide	ND	0.0060	0.010	-	-	-
Carbon Tetrachloride	ND	0.0018	0.010	-	-	-
Chlorobenzene	ND	0.0017	0.010	-	-	-
Chloroethane	ND	0.0040	0.010	-	-	-
Chloroform	ND	0.00022	0.010	-	-	-
Chloromethane	ND	0.0052	0.010	-	-	-
2-Chlorotoluene	ND	0.0032	0.010	-	-	-
4-Chlorotoluene	ND	0.0024	0.010	-	-	-
Dibromochloromethane	ND	0.00038	0.010	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.00032	0.00050	-	-	-
1,2-Dibromoethane (EDB)	ND	0.000068	0.00020	-	-	-
Dibromomethane	ND	0.0016	0.010	-	-	-
1,2-Dichlorobenzene	ND	0.0022	0.010	-	-	-
1,3-Dichlorobenzene	ND	0.0020	0.010	-	-	-
1,4-Dichlorobenzene	ND	0.0017	0.010	-	-	-
Dichlorodifluoromethane	ND	0.0026	0.010	-	-	-
1,1-Dichloroethane	ND	0.0018	0.010	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.00017	0.00050	-	-	-
1,1-Dichloroethene	ND	0.000056	0.00050	-	-	-
cis-1,2-Dichloroethene	ND	0.0017	0.010	-	-	-
trans-1,2-Dichloroethene	ND	0.0022	0.010	-	-	-
1,2-Dichloropropane	ND	0.0016	0.010	-	-	-
1,3-Dichloropropane	ND	0.0014	0.010	-	-	-
2,2-Dichloropropane	ND	0.0038	0.010	-	-	-
1,1-Dichloropropene	ND	0.0017	0.010	-	-	-

(Cont.)



## Quality Control Report

<b>Client:</b>	Roux Associates, Inc.	<b>WorkOrder:</b>	2001093
<b>Date Prepared:</b>	1/3/20	<b>BatchID:</b>	191706
<b>Date Analyzed:</b>	1/7/20	<b>Extraction Method:</b>	SW5035
<b>Instrument:</b>	GC18	<b>Analytical Method:</b>	SW8260B
<b>Matrix:</b>	Soil	<b>Unit:</b>	mg/Kg
<b>Project:</b>	3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b>	MB/LCS/LCSD-191706

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.0034	0.010	-	-	-
trans-1,3-Dichloropropene	ND	0.0040	0.010	-	-	-
Diisopropyl ether (DIPE)	ND	0.0022	0.010	-	-	-
Ethylbenzene	ND	0.0019	0.010	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0022	0.010	-	-	-
Freon 113	ND	0.0022	0.010	-	-	-
Hexachlorobutadiene	ND	0.0046	0.010	-	-	-
Hexachloroethane	ND	0.0028	0.010	-	-	-
2-Hexanone	ND	0.0062	0.010	-	-	-
Isopropylbenzene	ND	0.0034	0.010	-	-	-
4-Isopropyl toluene	ND	0.0030	0.010	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0034	0.010	-	-	-
Methylene chloride	ND	0.016	0.020	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.0058	0.010	-	-	-
Naphthalene	ND	0.0072	0.010	-	-	-
n-Propyl benzene	ND	0.0032	0.010	-	-	-
Styrene	ND	0.0054	0.010	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.0018	0.010	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.000087	0.00050	-	-	-
Tetrachloroethene	ND	0.00040	0.0020	-	-	-
Toluene	ND	0.0032	0.010	-	-	-
1,2,3-Trichlorobenzene	ND	0.0074	0.010	-	-	-
1,2,4-Trichlorobenzene	ND	0.0036	0.010	-	-	-
1,1,1-Trichloroethane	ND	0.0017	0.010	-	-	-
1,1,2-Trichloroethane	ND	0.0013	0.010	-	-	-
Trichloroethene	ND	0.0032	0.010	-	-	-
Trichlorofluoromethane	ND	0.0028	0.010	-	-	-
1,2,3-Trichloropropane	ND	0.000084	0.00010	-	-	-
1,2,4-Trimethylbenzene	ND	0.0030	0.010	-	-	-
1,3,5-Trimethylbenzene	ND	0.0032	0.010	-	-	-
Vinyl Chloride	ND	0.00011	0.00050	-	-	-
m,p-Xylene	ND	0.0046	0.010	-	-	-
o-Xylene	ND	0.0015	0.010	-	-	-

(Cont.)



## Quality Control Report

<b>Client:</b> Roux Associates, Inc.	<b>WorkOrder:</b> 2001093
<b>Date Prepared:</b> 1/3/20	<b>BatchID:</b> 191706
<b>Date Analyzed:</b> 1/7/20	<b>Extraction Method:</b> SW5035
<b>Instrument:</b> GC18	<b>Analytical Method:</b> SW8260B
<b>Matrix:</b> Soil	<b>Unit:</b> mg/Kg
<b>Project:</b> 3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b> MB/LCS/LCSD-191706

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
<b>Surrogate Recovery</b>						
Dibromofluoromethane	0.24			0.25	96	85-129
Toluene-d8	0.27			0.25	107	98-136
4-BFB	0.025			0.025	101	83-137
Benzene-d6	0.20			0.2	98	67-135
Ethylbenzene-d10	0.21			0.2	104	81-152
1,2-DCB-d4	0.16			0.2	80	61-112

(Cont.)



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 1/3/20  
**Date Analyzed:** 1/7/20  
**Instrument:** GC18  
**Matrix:** Soil  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**BatchID:** 191706  
**Extraction Method:** SW5035  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-191706

### QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	0.41	0.39	0.80	52,F2	49,F2	65-143	4.61	20
tert-Amyl methyl ether (TAME)	0.031	0.030	0.040	78	75	55-119	4.56	30
Benzene	0.037	0.036	0.040	92	89	64-131	3.32	30
Bromobenzene	0.035	0.035	0.040	87	87	66-132	0	30
Bromochloromethane	0.034	0.032	0.040	84	81	66-123	4.28	30
Bromodichloromethane	0.033	0.032	0.040	82	79	63-121	3.94	30
Bromoform	0.034	0.033	0.040	85	83	50-92	1.92	30
Bromomethane	0.037	0.037	0.040	93	92	42-146	0.285	30
2-Butanone (MEK)	0.14	0.14	0.16	88	85	59-127	3.08	30
t-Butyl alcohol (TBA)	0.13	0.12	0.16	82	78	54-132	5.55	30
n-Butyl benzene	0.053	0.053	0.040	133	133	91-188	0	30
sec-Butyl benzene	0.051	0.052	0.040	129	130	89-186	0.800	30
tert-Butyl benzene	0.045	0.045	0.040	112	112	83-180	0	30
Carbon Disulfide	0.035	0.034	0.040	87	85	59-149	2.17	30
Carbon Tetrachloride	0.037	0.036	0.040	92	89	66-139	2.72	30
Chlorobenzene	0.036	0.035	0.040	90	88	65-127	2.64	30
Chloroethane	0.039	0.038	0.040	96	94	41-142	2.18	30
Chloroform	0.036	0.035	0.040	91	88	73-124	3.46	30
Chloromethane	0.032	0.031	0.040	80	78	28-144	2.04	30
2-Chlorotoluene	0.041	0.041	0.040	102	103	76-152	0.758	30
4-Chlorotoluene	0.040	0.039	0.040	100	97	71-148	2.44	30
Dibromochloromethane	0.030	0.030	0.040	76	74	63-105	2.73	30
1,2-Dibromo-3-chloropropane	0.012	0.012	0.020	62	58	42-115	6.81	20
1,2-Dibromoethane (EDB)	0.017	0.016	0.020	84	82	66-126	2.07	20
Dibromomethane	0.032	0.031	0.040	80	77	63-116	3.61	30
1,2-Dichlorobenzene	0.031	0.030	0.040	77	76	59-107	1.72	30
1,3-Dichlorobenzene	0.037	0.037	0.040	93	93	74-131	0	30
1,4-Dichlorobenzene	0.035	0.035	0.040	88	87	67-125	2.25	30
Dichlorodifluoromethane	0.016	0.015	0.040	40	38	9-81	3.18	30
1,1-Dichloroethane	0.035	0.034	0.040	88	85	71-129	3.30	30
1,2-Dichloroethane (1,2-DCA)	0.035	0.034	0.040	87	84	66-122	3.93	30
1,1-Dichloroethene	0.035	0.034	0.040	87	85	59-134	2.32	30
cis-1,2-Dichloroethene	0.035	0.033	0.040	87	82	63-135	6.17	30
trans-1,2-Dichloroethene	0.035	0.034	0.040	87	85	54-140	2.72	30
1,2-Dichloropropane	0.033	0.032	0.040	83	80	65-127	3.39	30
1,3-Dichloropropane	0.034	0.033	0.040	84	82	62-135	3.20	30
2,2-Dichloropropane	0.037	0.036	0.040	94	91	69-145	3.10	30
1,1-Dichloropropene	0.037	0.036	0.040	92	90	66-138	2.53	30

(Cont.)



## Quality Control Report

<b>Client:</b> Roux Associates, Inc.	<b>WorkOrder:</b> 2001093
<b>Date Prepared:</b> 1/3/20	<b>BatchID:</b> 191706
<b>Date Analyzed:</b> 1/7/20	<b>Extraction Method:</b> SW5035
<b>Instrument:</b> GC18	<b>Analytical Method:</b> SW8260B
<b>Matrix:</b> Soil	<b>Unit:</b> mg/Kg
<b>Project:</b> 3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b> MB/LCS/LCSD-191706

### QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	0.035	0.034	0.040	88	86	65-141	2.37	30
trans-1,3-Dichloropropene	0.035	0.034	0.040	88	85	66-126	3.54	30
Diisopropyl ether (DIPE)	0.034	0.032	0.040	84	80	70-119	5.09	30
Ethylbenzene	0.041	0.040	0.040	102	99	79-138	2.43	30
Ethyl tert-butyl ether (ETBE)	0.033	0.032	0.040	83	79	69-119	4.85	30
Freon 113	0.031	0.030	0.040	78	76	50-122	2.71	30
Hexachlorobutadiene	0.043	0.041	0.040	108	102	81-188	6.37	30
Hexachloroethane	0.043	0.043	0.040	108	107	78-155	1.15	30
2-Hexanone	0.027	0.026	0.040	67	64	48-107	4.26	30
Isopropylbenzene	0.049	0.049	0.040	122	122	71-169	0	30
4-Isopropyl toluene	0.048	0.048	0.040	120	120	88-172	0	30
Methyl-t-butyl ether (MTBE)	0.033	0.032	0.040	83	81	63-121	2.96	30
Methylene chloride	0.037	0.036	0.040	92	91	62-133	1.97	30
4-Methyl-2-pentanone (MIBK)	0.029	0.028	0.040	72	70	50-109	2.03	30
Naphthalene	0.020	0.019	0.040	49	47	29-69	4.06	30
n-Propyl benzene	0.047	0.047	0.040	116	118	81-181	1.11	30
Styrene	0.034	0.033	0.040	85	83	62-129	2.67	30
1,1,1,2-Tetrachloroethane	0.035	0.034	0.040	87	84	74-130	3.24	30
1,1,2,2-Tetrachloroethane	0.030	0.029	0.040	74	72	42-126	2.71	30
Tetrachloroethene	0.039	0.038	0.040	97	96	72-153	1.57	30
Toluene	0.039	0.039	0.040	98	97	70-140	1.50	30
1,2,3-Trichlorobenzene	0.021	0.020	0.040	53	51	33-87	3.80	30
1,2,4-Trichlorobenzene	0.027	0.025	0.040	67	63	46-109	5.85	30
1,1,1-Trichloroethane	0.038	0.037	0.040	94	92	72-135	3.03	30
1,1,2-Trichloroethane	0.033	0.032	0.040	84	81	60-130	2.93	30
Trichloroethene	0.036	0.035	0.040	90	88	57-146	2.78	30
Trichlorofluoromethane	0.035	0.034	0.040	86	85	52-130	2.11	30
1,2,3-Trichloropropane	0.018	0.017	0.020	88	87	65-130	1.97	20
1,2,4-Trimethylbenzene	0.047	0.046	0.040	117	116	83-156	1.04	30
1,3,5-Trimethylbenzene	0.047	0.047	0.040	116	117	86-167	0.708	30
Vinyl Chloride	0.017	0.017	0.020	87	85	33-141	2.39	20
m,p-Xylene	0.079	0.076	0.080	98	95	70-141	3.60	20
o-Xylene	0.038	0.037	0.040	94	92	74-130	2.94	20

(Cont.)





## Quality Control Report

<b>Client:</b>	Roux Associates, Inc.	<b>WorkOrder:</b>	2001093
<b>Date Prepared:</b>	1/3/20	<b>BatchID:</b>	191706
<b>Date Analyzed:</b>	1/7/20	<b>Extraction Method:</b>	SW5035
<b>Instrument:</b>	GC18	<b>Analytical Method:</b>	SW8260B
<b>Matrix:</b>	Soil	<b>Unit:</b>	mg/Kg
<b>Project:</b>	3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b>	MB/LCS/LCSD-191706

### QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
<b>Surrogate Recovery</b>								
Dibromofluoromethane	0.24	0.24	0.25	97	96	85-129	1.32	30
Toluene-d8	0.26	0.26	0.25	105	105	98-136	0	30
4-BFB	0.025	0.025	0.025	101	102	83-137	0.192	30
Benzene-d6	0.20	0.20	0.20	98	98	67-135	0	20
Ethylbenzene-d10	0.20	0.21	0.20	102	103	81-152	0.712	20
1,2-DCB-d4	0.17	0.17	0.20	83	83	61-112	0	20



## Quality Control Report

<b>Client:</b>	Roux Associates, Inc.	<b>WorkOrder:</b>	2001093
<b>Date Prepared:</b>	1/3/20	<b>BatchID:</b>	191701
<b>Date Analyzed:</b>	1/6/20 - 1/7/20	<b>Extraction Method:</b>	SW5035
<b>Instrument:</b>	GC18	<b>Analytical Method:</b>	SW8260B
<b>Matrix:</b>	Soil	<b>Unit:</b>	mg/Kg
<b>Project:</b>	3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b>	MB/LCS/LCSD-191701

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	0.50	0.50	-	-	-
<b>Surrogate Recovery</b>						
Dibromofluoromethane	0.25			0.25	99	70-130
Benzene-D6	0.19			0.2	96	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(g) (C6-C12)	2.0	1.9	2	98	97	70-130	0.584	20
<b>Surrogate Recovery</b>								
Dibromofluoromethane	0.24	0.24	0.25	97	98	70-130	0.423	20
Benzene-D6	0.20	0.19	0.20	99	97	70-130	1.64	20

(Cont.)



## Quality Control Report

<b>Client:</b> Roux Associates, Inc.	<b>WorkOrder:</b> 2001093
<b>Date Prepared:</b> 1/6/20	<b>BatchID:</b> 191740
<b>Date Analyzed:</b> 1/7/20	<b>Extraction Method:</b> SW5035
<b>Instrument:</b> GC18	<b>Analytical Method:</b> SW8260B
<b>Matrix:</b> Soil	<b>Unit:</b> mg/Kg
<b>Project:</b> 3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b> MB/LCS/LCSD-191740

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	0.50	0.50	-	-	-
<b>Surrogate Recovery</b>						
Dibromofluoromethane	0.25			0.25	99	70-130
Benzene-D6	0.19			0.2	97	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(g) (C6-C12)	1.6	1.6	2	78	82	70-130	4.28	20
<b>Surrogate Recovery</b>								
Dibromofluoromethane	0.25	0.25	0.25	100	99	70-130	0.483	20
Benzene-D6	0.17	0.19	0.20	85	93	70-130	9.44	20



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 1/7/20  
**Date Analyzed:** 1/7/20  
**Instrument:** GC21  
**Matrix:** Soil  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**BatchID:** 191794  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270C-SIM  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-191794  
 2001093-001AMS/MSD

### QC Summary Report for SW8270C

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
1-Methylnaphthalene	ND	0.0011	0.0013	-	-	-
Acenaphthene	ND	0.0012	0.0013	-	-	-
Acenaphthylene	ND	0.0012	0.0013	-	-	-
Anthracene	ND	0.00096	0.0013	-	-	-
Benzo (a) anthracene	ND	0.0044	0.0050	-	-	-
Benzo (a) pyrene	ND	0.0011	0.0025	-	-	-
Benzo (b) fluoranthene	ND	0.0011	0.0063	-	-	-
Benzo (g,h,i) perylene	ND	0.0010	0.0025	-	-	-
Benzo (k) fluoranthene	ND	0.0010	0.0013	-	-	-
Chrysene	ND	0.00098	0.0025	-	-	-
Dibenzo (a,h) anthracene	ND	0.0011	0.0025	-	-	-
Fluoranthene	ND	0.0011	0.0013	-	-	-
Fluorene	ND	0.0019	0.0025	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.0010	0.0025	-	-	-
2-Methylnaphthalene	ND	0.0018	0.0025	-	-	-
Naphthalene	ND	0.0013	0.0013	-	-	-
Phenanthrene	ND	0.0011	0.0050	-	-	-
Pyrene	ND	0.0012	0.0025	-	-	-
<b>Surrogate Recovery</b>						
2-Fluorophenol	1.0			1.25	80	70-131
2-Fluorobiphenyl	1.0			1.25	81	65-131

(Cont.)



## Quality Control Report

<b>Client:</b>	Roux Associates, Inc.	<b>WorkOrder:</b>	2001093
<b>Date Prepared:</b>	1/7/20	<b>BatchID:</b>	191794
<b>Date Analyzed:</b>	1/7/20	<b>Extraction Method:</b>	SW3550B/3640A
<b>Instrument:</b>	GC21	<b>Analytical Method:</b>	SW8270C-SIM
<b>Matrix:</b>	Soil	<b>Unit:</b>	mg/Kg
<b>Project:</b>	3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b>	MB/LCS/LCSD-191794 2001093-001AMS/MSD

### QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
1-Methylnaphthalene	0.10	0.10	0.12	81	84	68-150	4.24	30
Acenaphthene	0.095	0.088	0.12	76	71	61-143	7.64	30
Acenaphthylene	0.097	0.094	0.12	78	75	68-146	3.15	30
Anthracene	0.10	0.10	0.12	81	81	67-139	0	30
Benzo (a) anthracene	0.093	0.093	0.12	74	74	66-140	0	30
Benzo (a) pyrene	0.11	0.10	0.12	89	83	73-157	7.55	30
Benzo (b) fluoranthene	0.57	0.52	0.62	91	83	73-145	9.98	30
Benzo (g,h,i) perylene	0.12	0.096	0.12	95	77	60-151	20.2	30
Benzo (k) fluoranthene	0.12	0.10	0.12	97	80	70-148	18.9	30
Chrysene	0.10	0.10	0.12	82	80	66-146	1.54	30
Dibenzo (a,h) anthracene	0.11	0.10	0.12	86	80	65-159	7.19	30
Fluoranthene	0.11	0.11	0.12	88	87	74-149	0.640	30
Fluorene	0.13	0.13	0.12	106	102	76-153	4.08	30
Indeno (1,2,3-cd) pyrene	0.10	0.098	0.12	83	78	62-156	5.66	30
2-Methylnaphthalene	0.10	0.11	0.12	83	84	74-148	1.63	30
Naphthalene	0.089	0.093	0.12	72	74	59-135	3.77	30
Phenanthrene	0.098	0.098	0.12	79	78	64-135	0.563	30
Pyrene	0.095	0.096	0.12	76	76	73-145	0	30

#### Surrogate Recovery

2-Fluorophenol	0.97	1.0	1.25	77	81	70-131	4.88	30
2-Fluorobiphenyl	0.89	0.92	1.25	71	74	65-131	3.40	30

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1-Methylnaphthalene	1	0.10	0.11	0.12	ND	83	91	49-172	9.40	30
Acenaphthene	1	0.097	0.11	0.12	ND	78	89	46-160	13.8	30
Acenaphthylene	1	0.11	0.12	0.12	ND	90	96	55-162	6.72	30
Anthracene	1	0.11	0.13	0.12	ND	85	101	40-175	16.8	30
Benzo (a) anthracene	1	0.10	0.12	0.12	ND	82	99	56-157	18.4	30
Benzo (a) pyrene	1	0.11	0.14	0.12	0.003092	89	111	61-176	21.5	30
Benzo (b) fluoranthene	1	0.50	0.68	0.62	0.007180	79	107	26-171	29.8	30
Benzo (g,h,i) perylene	1	0.11	0.14	0.12	0.006936	85	103	42-181	18.2	30
Benzo (k) fluoranthene	1	0.096	0.13	0.12	0.002276	75	104	44-190	31.8,F1	30
Chrysene	1	0.11	0.13	0.12	0.002924	89	102	47-175	13.0	30
Dibenzo (a,h) anthracene	1	0.11	0.14	0.12	ND	89	111	42-189	21.8	30
Fluoranthene	1	0.12	0.14	0.12	0.003028	90	107	59-178	17.2	30

(Cont.)



## Quality Control Report

<b>Client:</b> Roux Associates, Inc.	<b>WorkOrder:</b> 2001093
<b>Date Prepared:</b> 1/7/20	<b>BatchID:</b> 191794
<b>Date Analyzed:</b> 1/7/20	<b>Extraction Method:</b> SW3550B/3640A
<b>Instrument:</b> GC21	<b>Analytical Method:</b> SW8270C-SIM
<b>Matrix:</b> Soil	<b>Unit:</b> mg/Kg
<b>Project:</b> 3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b> MB/LCS/LCSD-191794 2001093-001AMS/MSD

### QC Summary Report for SW8270C

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Fluorene	1	0.11	0.13	0.12	ND	89	105	54-172	16.7	30
Indeno (1,2,3-cd) pyrene	1	0.11	0.14	0.12	0.003140	86	108	42-187	22.3	30
2-Methylnaphthalene	1	0.11	0.12	0.12	ND	85	99	42-178	15.9	30
Naphthalene	1	0.085	0.10	0.12	ND	68	81	32-147	18.3	30
Phenanthrene	1	0.11	0.12	0.12	ND	81	96	41-175	15.9	30
Pyrene	1	0.11	0.13	0.12	0.005251	82	100	50-177	18.9	30
<b>Surrogate Recovery</b>										
2-Fluorophenol	1	0.91	1.1	1.25		73	88	51-142	19.1	30
2-Fluorobiphenyl	1	1.1	1.0	1.25		85	83	46-140	1.79	30



## Quality Control Report

<b>Client:</b>	Roux Associates, Inc.	<b>WorkOrder:</b>	2001093
<b>Date Prepared:</b>	1/3/20	<b>BatchID:</b>	191668
<b>Date Analyzed:</b>	1/3/20	<b>Extraction Method:</b>	SW3050B
<b>Instrument:</b>	ICP-MS4	<b>Analytical Method:</b>	SW6020
<b>Matrix:</b>	Soil	<b>Unit:</b>	mg/kg
<b>Project:</b>	3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b>	MB/LCS/LCSD-191668

### QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Antimony	ND	0.094	0.50	-	-	-
Arsenic	ND	0.14	0.50	-	-	-
Barium	ND	0.97	5.0	-	-	-
Beryllium	ND	0.072	0.50	-	-	-
Cadmium	ND	0.058	0.25	-	-	-
Chromium	ND	0.092	0.50	-	-	-
Cobalt	ND	0.056	0.50	-	-	-
Copper	ND	0.069	0.50	-	-	-
Lead	ND	0.094	0.50	-	-	-
Mercury	ND	0.0050	0.050	-	-	-
Molybdenum	ND	0.23	0.50	-	-	-
Nickel	ND	0.072	0.50	-	-	-
Selenium	ND	0.13	0.50	-	-	-
Silver	ND	0.055	0.50	-	-	-
Thallium	ND	0.10	0.50	-	-	-
Vanadium	ND	0.064	0.50	-	-	-
Zinc	ND	1.4	5.0	-	-	-
<b>Surrogate Recovery</b>						
Terbium	510			500	102	70-130



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 1/3/20  
**Date Analyzed:** 1/3/20  
**Instrument:** ICP-MS4  
**Matrix:** Soil  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**BatchID:** 191668  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-191668

### QC Summary Report for Metals

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Antimony	49	49	50	98	98	75-125	0	20
Arsenic	53	51	50	105	102	75-125	3.64	20
Barium	520	510	500	105	103	75-125	2.16	20
Beryllium	50	49	50	100	99	75-125	1.60	20
Cadmium	52	51	50	105	101	75-125	3.82	20
Chromium	53	52	50	106	105	75-125	1.61	20
Cobalt	52	51	50	105	102	75-125	3.21	20
Copper	53	52	50	106	103	75-125	3.25	20
Lead	52	50	50	103	100	75-125	3.46	20
Mercury	1.3	1.2	1.25	102	98	75-125	4.88	20
Molybdenum	49	49	50	98	98	75-125	0	20
Nickel	53	52	50	107	103	75-125	3.75	20
Selenium	52	50	50	103	101	75-125	2.68	20
Silver	51	51	50	102	101	75-125	1.26	20
Thallium	52	50	50	104	101	75-125	3.24	20
Vanadium	53	51	50	106	102	75-125	3.21	20
Zinc	520	510	500	105	102	75-125	3.02	20
<b>Surrogate Recovery</b>								
Terbium	540	530	500	108	107	70-130	1.18	20





## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 1/3/20  
**Date Analyzed:** 1/6/20  
**Instrument:** ICP-MS2, ICP-MS4  
**Matrix:** Soil  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**BatchID:** 191702  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-191702  
 2001093-014AMS/MSD  
 2001093-014APDS

### QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Antimony	ND	0.094	0.50	-	-	-
Arsenic	ND	0.14	0.50	-	-	-
Barium	ND	0.97	5.0	-	-	-
Beryllium	ND	0.072	0.50	-	-	-
Cadmium	ND	0.058	0.25	-	-	-
Chromium	ND	0.092	0.50	-	-	-
Cobalt	ND	0.056	0.50	-	-	-
Copper	ND	0.069	0.50	-	-	-
Lead	ND	0.094	0.50	-	-	-
Mercury	ND	0.0050	0.050	-	-	-
Molybdenum	ND	0.23	0.50	-	-	-
Nickel	ND	0.072	0.50	-	-	-
Selenium	ND	0.13	0.50	-	-	-
Silver	ND	0.055	0.50	-	-	-
Thallium	ND	0.10	0.50	-	-	-
Vanadium	ND	0.064	0.50	-	-	-
Zinc	ND	1.4	5.0	-	-	-
<b>Surrogate Recovery</b>						
Terbium	620			500	124	70-130



## Quality Control Report

<b>Client:</b> Roux Associates, Inc.	<b>WorkOrder:</b> 2001093
<b>Date Prepared:</b> 1/3/20	<b>BatchID:</b> 191702
<b>Date Analyzed:</b> 1/6/20	<b>Extraction Method:</b> SW3050B
<b>Instrument:</b> ICP-MS2, ICP-MS4	<b>Analytical Method:</b> SW6020
<b>Matrix:</b> Soil	<b>Unit:</b> mg/kg
<b>Project:</b> 3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b> MB/LCS/LCSD-191702 2001093-014AMS/MSD 2001093-014APDS

### QC Summary Report for Metals

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Antimony	55	49	50	110	97	75-125	12.8	20
Arsenic	58	51	50	115	102	75-125	12.5	20
Barium	590	520	500	119	103	75-125	14.2	20
Beryllium	58	50	50	117	100	75-125	15.3	20
Cadmium	56	50	50	113	99	75-125	12.8	20
Chromium	57	50	50	114	100	75-125	12.8	20
Cobalt	57	49	50	114	98	75-125	14.6	20
Copper	57	51	50	115	101	75-125	12.4	20
Lead	57	49	50	113	98	75-125	15.0	20
Mercury	1.4	1.2	1.25	109	100	75-125	9.28	20
Molybdenum	57	50	50	113	100	75-125	12.0	20
Nickel	58	51	50	115	102	75-125	12.3	20
Selenium	56	51	50	112	102	75-125	9.42	20
Silver	57	49	50	114	99	75-125	13.9	20
Thallium	59	51	50	119	103	75-125	14.6	20
Vanadium	57	50	50	115	101	75-125	13.0	20
Zinc	580	510	500	115	102	75-125	12.2	20

**Surrogate Recovery**

Terbium	600	520	500	120	104	70-130	14.3	20
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Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	1	55	50	50	3.047	104	95	75-125	8.97	20
Arsenic	1	59	56	50	4.651	109	103	75-125	4.68	20
Barium	1	730	710	500	204.0	104	102	75-125	1.85	20
Beryllium	1	53	50	50	ND	106	100	75-125	5.55	20
Cadmium	1	54	51	50	0.4425	108	102	75-125	5.52	20
Chromium	1	96	85	50	38.82	114	92	75-125	12.0	20
Cobalt	1	59	55	50	5.626	106	99	75-125	6.05	20
Copper	1	78	73	50	26.54	103	94	75-125	5.99	20
Lead	1	280	230	50	379.3	0,F13	0,F13	75-125	NA	20
Mercury	1	2.0	2.0	1.25	0.9693	85	82	75-125	1.94	20
Molybdenum	1	55	50	50	ND	109	99	75-125	9.79	20
Nickel	1	78	75	50	23.89	109	103	75-125	4.23	20
Selenium	1	52	52	50	ND	104	105	75-125	0.577	20
Silver	1	54	48	50	ND	107	95	75-125	11.2	20

(Cont.)



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 1/3/20  
**Date Analyzed:** 1/6/20  
**Instrument:** ICP-MS2, ICP-MS4  
**Matrix:** Soil  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001093  
**BatchID:** 191702  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-191702  
 2001093-014AMS/MSD  
 2001093-014APDS

### QC Summary Report for Metals

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Thallium	1	56	49	50	ND	112	97	75-125	13.9	20
Vanadium	1	88	82	50	29.34	118	106	75-125	7.09	20
Zinc	1	690	650	500	389.2	60,F10	52,F10	75-125	6.18	20

#### Surrogate Recovery

Terbium	1	570	550	500		114	111	70-130	2.31	20
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Analyte	PDS Result	SPK Val	SPKRef Val	PDS %REC	PDS Limits
Zinc	850	500	389.2	93	75-125

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Antimony	2.9	3.047	4.82	-
Arsenic	3.7	4.651	20.4	-
Barium	180	204.0	11.8	20
Beryllium	ND	ND	-	-
Cadmium	ND	0.4425	-	-
Chromium	37	38.82	4.69	20
Cobalt	5.1	5.626	9.35	-
Copper	24	26.54	9.57	20
Lead	340	379.3	10.4	20
Mercury	0.91	0.9693	6.12	-
Molybdenum	ND	ND	-	-
Nickel	22	23.89	7.91	20
Selenium	ND	ND	-	-
Silver	ND	ND	-	-
Thallium	ND	ND	-	-
Vanadium	28	29.34	4.57	20
Zinc	350	389.2	10.1	20

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



## Quality Control Report

<b>Client:</b> Roux Associates, Inc.	<b>WorkOrder:</b> 2001093
<b>Date Prepared:</b> 1/3/20	<b>BatchID:</b> 191703
<b>Date Analyzed:</b> 1/6/20	<b>Extraction Method:</b> SW7471B
<b>Instrument:</b> AA1	<b>Analytical Method:</b> SW7471B
<b>Matrix:</b> Soil	<b>Unit:</b> mg/Kg
<b>Project:</b> 3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b> MB/LCS/LCSD-191703 2001093-001AMS/MSD

### QC Summary Report for Mercury

Analyte	MB Result	MDL	RL			
Mercury	ND	0.015	0.017	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Mercury	0.17	0.17	0.17	103	99	80-120	3.95	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Mercury	1	0.22	0.24	0.17	0.07037	91	103	80-120	8.89	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Mercury	ND	0.07037	-	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



## Quality Control Report

<b>Client:</b> Roux Associates, Inc.	<b>WorkOrder:</b> 2001093
<b>Date Prepared:</b> 1/3/20	<b>BatchID:</b> 191687
<b>Date Analyzed:</b> 1/4/20	<b>Extraction Method:</b> SW3550B
<b>Instrument:</b> GC11A	<b>Analytical Method:</b> SW8015B
<b>Matrix:</b> Soil	<b>Unit:</b> mg/Kg
<b>Project:</b> 3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b> MB/LCS/LCSD-191687

### QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	0.83	1.0	-	-	-
TPH-Motor Oil (C18-C36)	ND	3.8	5.0	-	-	-
<b>Surrogate Recovery</b>						
C9	23			25	93	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	46	43	40	114	106	70-130	6.94	20
<b>Surrogate Recovery</b>								
C9	22	22	25	90	90	70-130	0	20

1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262



# CHAIN-OF-CUSTODY RECORD

WorkOrder: 2001093

ClientCode: RASF

- WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQUIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag  
 Detection Summary   
  Dry-Weight

Report to:  
Taylor Barrett  
Roux Associates, Inc.  
555 12th Street, Suite 250  
Oakland, CA 94607  
(415) 967-6015    FAX: (415) 967-6001

Email: tbarrett@rouxinc.com  
cc/3rd Party: jgraber@rouxinc.com;  
PO:  
Project: 3374.0003S000; EBALDC-285 12th Street

Bill to:  
Accounts Payable/Donna Andrusco  
Roux Associates, Inc.  
209 Shafter Street  
Islandia, NY 11749-5074  
Rouxap@rouxinc.com

Requested TAT: 5 days;  
  
Date Received: 01/03/2020  
Date Logged: 01/03/2020

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
2001093-001	RB-1-0.0	Soil	1/3/2020 07:45	<input type="checkbox"/>	A	A	A	A	A	A	A	A	A		A		
2001093-002	RB-1-3.0	Soil	1/3/2020 07:50	<input type="checkbox"/>		A	A		A		A	A		A			
2001093-003	RB-1-5.0	Soil	1/3/2020 08:32	<input type="checkbox"/>		A	A		A		A	A		A			
2001093-004	RB-1-10.0	Soil	1/3/2020 08:40	<input checked="" type="checkbox"/>								A	A				
2001093-005	RB-1-15.0	Soil	1/3/2020 08:55	<input type="checkbox"/>		A	A					A					
2001093-006	RB-1-20.0	Soil	1/3/2020 09:00	<input checked="" type="checkbox"/>								A	A				
2001093-007	RB-2-0.0	Soil	1/3/2020 08:45	<input type="checkbox"/>	A	A	A	A	A	A	A	A		A			
2001093-008	RB-2-3.0	Soil	1/3/2020 08:50	<input type="checkbox"/>	A	A	A	A	A		A	A		A			
2001093-009	RB-2-5.0	Soil	1/3/2020 09:25	<input type="checkbox"/>					A		A	A					
2001093-010	RB-2-10.0	Soil	1/3/2020 09:40	<input checked="" type="checkbox"/>								A	A				
2001093-011	RB-2-15.0	Soil	1/3/2020 09:55	<input checked="" type="checkbox"/>								A	A				
2001093-012	RB-2-20.0	Soil	1/3/2020 10:10	<input checked="" type="checkbox"/>								A	A				
2001093-013	RB-3-0.0	Soil	1/3/2020 10:12	<input type="checkbox"/>	A	A	A	A	A	A	A	A		A			
2001093-014	RB-3-3.0	Soil	1/3/2020 10:14	<input type="checkbox"/>		A	A		A		A	A		A			
2001093-015	RB-3-5.0	Soil	1/3/2020 11:15	<input type="checkbox"/>					A		A	A					

**Test Legend:**

1	8081pcB_ESL_LL_S	2	8260B_SCAN-SIM_E	3	8260GAS_E	4	8270_PNA_GPC_S
5	CAM17MS_TTLC_S	6	CARB435_1000	7	HG_S	8	PRDisposal Fee
9	PRHOLD	10	TPH(DMO)_S	11		12	

Project Manager: Susan Thompson

Prepared by: Nancy Palacios

The following SamplIDs: 001A, 002A, 003A, 005A, 007A, 008A, 013A, 014A, 019A, 020A, 024A, 025A, 026A contain testgroup Gas8260\_Scan-Sim\_E.

Comments: Susan is PM

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262



# CHAIN-OF-CUSTODY RECORD

WorkOrder: 2001093

ClientCode: RASF

- WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQuIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag  
 Detection Summary   
  Dry-Weight

Report to:  
Taylor Barrett  
Roux Associates, Inc.  
555 12th Street, Suite 250  
Oakland, CA 94607  
(415) 967-6015    FAX: (415) 967-6001

Email: tbarrett@rouxinc.com  
cc/3rd Party: jgraber@rouxinc.com;  
PO:  
Project: 3374.0003S000; EBALDC-285 12th Street

Bill to:  
Accounts Payable/Donna Andrusco  
Roux Associates, Inc.  
209 Shafter Street  
Islandia, NY 11749-5074  
Rouxap@rouxinc.com

Requested TAT: 5 days;  
  
Date Received: 01/03/2020  
Date Logged: 01/03/2020

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)													
					1	2	3	4	5	6	7	8	9	10	11	12		
2001093-016	RB-3-10.0	Soil	1/3/2020 11:20	<input checked="" type="checkbox"/>										A	A			
2001093-017	RB-3-15.0	Soil	1/3/2020 11:35	<input checked="" type="checkbox"/>										A	A			
2001093-018	RB-3-20.0	Soil	1/3/2020 11:55	<input checked="" type="checkbox"/>										A	A			
2001093-019	RB-4-0.0	Soil	1/2/2020 14:40	<input type="checkbox"/>	A	A	A	A	A	A	A	A				A		
2001093-020	RB-4-3.0	Soil	1/2/2020 14:45	<input type="checkbox"/>		A	A		A		A	A				A		
2001093-021	RB-4-5.0	Soil	1/2/2020 15:00	<input type="checkbox"/>					A		A	A						
2001093-022	RB-4-10.0	Soil	1/2/2020 15:10	<input checked="" type="checkbox"/>									A	A				
2001093-023	RB-4-15.0	Soil	1/2/2020 15:20	<input checked="" type="checkbox"/>									A	A				
2001093-024	RB-5-0.0	Soil	1/2/2020 15:30	<input type="checkbox"/>	A	A	A	A	A	A	A	A				A		
2001093-025	RB-5-3.0	Soil	1/2/2020 15:30	<input type="checkbox"/>	A	A	A	A	A		A	A				A		
2001093-026	RB-5-5.0	Soil	1/2/2020 15:50	<input type="checkbox"/>		A	A		A		A	A				A		
2001093-027	RB-5-10.0	Soil	1/2/2020 15:55	<input checked="" type="checkbox"/>									A	A				
2001093-028	RB-5-15.0	Soil	1/2/2020 16:05	<input checked="" type="checkbox"/>									A	A				

**Test Legend:**

1	8081pcB_ESL_LL_S	2	8260B_SCAN-SIM_E	3	8260GAS_E	4	8270_PNA_GPC_S
5	CAM17MS_TTLC_S	6	CARB435_1000	7	HG_S	8	PRDisposal Fee
9	PRHOLD	10	TPH(DMO)_S	11		12	

**Project Manager: Susan Thompson**

**Prepared by: Nancy Palacios**

The following SamplIDs: 001A, 002A, 003A, 005A, 007A, 008A, 013A, 014A, 019A, 020A, 024A, 025A, 026A contain testgroup Gas8260\_Scan-Sim\_E.

**Comments:** Susan is PM

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



### WORK ORDER SUMMARY

**Client Name:** ROUX ASSOCIATES, INC.

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Work Order:** 2001093

**Client Contact:** Taylor Barrett

**QC Level:** LEVEL 2

**Contact's Email:** tbarrett@rouxinc.com

**Comments:** Susan is PM

**Date Logged:** 1/3/2020

WaterTrax    WriteOn    EDF    Excel    EQUIS    Email    HardCopy    ThirdParty    J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut		
2001093-001A	RB-1-0.0	Soil	SW8015B (Diesel & Motor Oil)	3	16OZ GJ, Unpres + 2-Encores	<input type="checkbox"/>	1/3/2020 7:45	5 days		<input type="checkbox"/>			
			SW7471B (Mercury)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			Asbestos, CARB 435, 1000 Point			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (PAHs/PNAs w/ GPC)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			TPH(g) & 8260 Scan-Sim by P&T GCMS			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8081A/8082 (OC Pesticides+PCBs) ESLs			<input type="checkbox"/>						5 days	<input type="checkbox"/>
2001093-002A	RB-1-3.0	Soil	SW8015B (Diesel & Motor Oil)	3	16OZ GJ, Unpres + 2-Encores	<input type="checkbox"/>	1/3/2020 7:50	5 days		<input type="checkbox"/>			
			SW7471B (Mercury)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			TPH(g) & 8260 Scan-Sim by P&T GCMS			<input type="checkbox"/>						5 days	<input type="checkbox"/>
2001093-003A	RB-1-5.0	Soil	SW8015B (Diesel & Motor Oil)	3	16OZ GJ, Unpres + 2-Encores	<input type="checkbox"/>	1/3/2020 8:32	5 days		<input type="checkbox"/>			
			SW7471B (Mercury)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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**Work Order:** 2001093

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**Comments:** Susan is PM

**Date Logged:** 1/3/2020

WaterTrax    WriteOn    EDF    Excel    EQUIS    Email    HardCopy    ThirdParty    J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut		
2001093-003A	RB-1-5.0	Soil	TPH(g) & 8260 Scan-Sim by P&T GCMS	3	16OZ GJ, Unpres + 2-Encores	<input type="checkbox"/>	1/3/2020 8:32	5 days		<input type="checkbox"/>			
2001093-005A	RB-1-15.0	Soil	TPH(g) & 8260 Scan-Sim by P&T GCMS	3	16OZ GJ, Unpres + 2-Encores	<input type="checkbox"/>	1/3/2020 8:55	5 days		<input type="checkbox"/>			
2001093-007A	RB-2-0.0	Soil	SW8015B (Diesel & Motor Oil)	3	16OZ GJ, Unpres + 2-Encores	<input type="checkbox"/>	1/3/2020 8:45	5 days		<input type="checkbox"/>			
			SW7471B (Mercury)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			Asbestos, CARB 435, 1000 Point			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (PAHs/PNAs w/ GPC)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			TPH(g) & 8260 Scan-Sim by P&T GCMS			<input type="checkbox"/>						5 days	<input type="checkbox"/>
SW8081A/8082 (OC Pesticides+PCBs) ESLs	<input type="checkbox"/>	5 days	<input type="checkbox"/>										
2001093-008A	RB-2-3.0	Soil	SW8015B (Diesel & Motor Oil)	3	16OZ GJ, Unpres + 2-Encores	<input type="checkbox"/>	1/3/2020 8:50	5 days		<input type="checkbox"/>			
			SW7471B (Mercury)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (PAHs/PNAs w/ GPC)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			TPH(g) & 8260 Scan-Sim by P&T GCMS			<input type="checkbox"/>						5 days	<input type="checkbox"/>

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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**Project:** 3374.0003S000; EBALDC-285 12th Street

**Work Order:** 2001093

**Client Contact:** Taylor Barrett

**QC Level:** LEVEL 2

**Contact's Email:** tbarrett@rouxinc.com

**Comments:** Susan is PM

**Date Logged:** 1/3/2020

WaterTrax     WriteOn     EDF     Excel     EQUIS     Email     HardCopy     ThirdParty     J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut	
2001093-008A	RB-2-3.0	Soil	SW8081A/8082 (OC Pesticides+PCBs) ESLs	3	16OZ GJ, Unpres + 2-Encores	<input type="checkbox"/>	1/3/2020 8:50	5 days		<input type="checkbox"/>		
2001093-009A	RB-2-5.0	Soil	SW7471B (Mercury)  SW6020 (CAM 17)	3	16OZ GJ, Unpres + 2-Encores	<input type="checkbox"/>  <input type="checkbox"/>	1/3/2020 9:25	5 days  5 days		<input type="checkbox"/>  <input type="checkbox"/>		
2001093-013A	RB-3-0.0	Soil	SW8015B (Diesel & Motor Oil)  SW7471B (Mercury) Asbestos, CARB 435, 1000 Point SW6020 (CAM 17) SW8270C (PAHs/PNAs w/ GPC) TPH(g) & 8260 Scan-Sim by P&T GCMS SW8081A/8082 (OC Pesticides+PCBs) ESLs	3	16OZ GJ, Unpres + 2-Encores	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	1/3/2020 10:12	5 days 5 days 5 days 5 days 5 days 5 days 5 days		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
2001093-014A	RB-3-3.0	Soil	SW8015B (Diesel & Motor Oil)  SW7471B (Mercury) SW6020 (CAM 17) TPH(g) & 8260 Scan-Sim by P&T GCMS	3	16OZ GJ, Unpres + 2-Encores	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	1/3/2020 10:14	5 days 5 days 5 days 5 days		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

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**Comments:** Susan is PM

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WaterTrax     WriteOn     EDF     Excel     EQUIS     Email     HardCopy     ThirdParty     J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2001093-015A	RB-3-5.0	Soil	SW7471B (Mercury)	3	16OZ GJ, Unpres + 2-Encores	<input type="checkbox"/>	1/3/2020 11:15	5 days		<input type="checkbox"/>	
			SW6020 (CAM 17)			<input type="checkbox"/>		5 days			
2001093-019A	RB-4-0.0	Soil	SW8015B (Diesel & Motor Oil)	3	16OZ GJ, Unpres + 2-Encores	<input type="checkbox"/>	1/2/2020 14:40	5 days		<input type="checkbox"/>	
			SW7471B (Mercury)			<input type="checkbox"/>		5 days			
			Asbestos, CARB 435, 1000 Point			<input type="checkbox"/>		5 days			
			SW6020 (CAM 17)			<input type="checkbox"/>		5 days			
			SW8270C (PAHs/PNAs w/ GPC)			<input type="checkbox"/>		5 days			
			TPH(g) & 8260 Scan-Sim by P&T GCMS			<input type="checkbox"/>		5 days			
			SW8081A/8082 (OC Pesticides+PCBs) ESLs			<input type="checkbox"/>		5 days			
2001093-020A	RB-4-3.0	Soil	SW8015B (Diesel & Motor Oil)	3	16OZ GJ, Unpres + 2-Encores	<input type="checkbox"/>	1/2/2020 14:45	5 days		<input type="checkbox"/>	
			SW7471B (Mercury)			<input type="checkbox"/>		5 days			
			SW6020 (CAM 17)			<input type="checkbox"/>		5 days			
			TPH(g) & 8260 Scan-Sim by P&T GCMS			<input type="checkbox"/>		5 days			
2001093-021A	RB-4-5.0	Soil	SW7471B (Mercury)	3	16OZ GJ, Unpres + 2-Encores	<input type="checkbox"/>	1/2/2020 15:00	5 days		<input type="checkbox"/>	

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**Comments:** Susan is PM

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WaterTrax     WriteOn     EDF     Excel     EQUIS     Email     HardCopy     ThirdParty     J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2001093-021A	RB-4-5.0	Soil	SW6020 (CAM 17)	3	16OZ GJ, Unpres + 2-Encores	<input type="checkbox"/>	1/2/2020 15:00	5 days		<input type="checkbox"/>	
2001093-024A	RB-5-0.0	Soil	SW8015B (Diesel & Motor Oil)	3	16OZ GJ, Unpres + 2-Encores	<input type="checkbox"/>	1/2/2020 15:30	5 days		<input type="checkbox"/>	
			SW7471B (Mercury)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			Asbestos, CARB 435, 1000 Point			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW6020 (CAM 17)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (PAHs/PNAs w/ GPC)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			TPH(g) & 8260 Scan-Sim by P&T GCMS			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8081A/8082 (OC Pesticides+PCBs) ESLs			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
2001093-025A	RB-5-3.0	Soil	SW8015B (Diesel & Motor Oil)	3	16OZ GJ, Unpres + 2-Encores	<input type="checkbox"/>	1/2/2020 15:30	5 days		<input type="checkbox"/>	
			SW7471B (Mercury)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW6020 (CAM 17)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (PAHs/PNAs w/ GPC)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			TPH(g) & 8260 Scan-Sim by P&T GCMS			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8081A/8082 (OC Pesticides+PCBs) ESLs			<input type="checkbox"/>		5 days		<input type="checkbox"/>	

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**Comments:** Susan is PM

**Date Logged:** 1/3/2020

WaterTrax     WriteOn     EDF     Excel     EQUIS     Email     HardCopy     ThirdParty     J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2001093-026A	RB-5-5.0	Soil	SW8015B (Diesel & Motor Oil)	3	16OZ GJ, Unpres + 2-Encores	<input type="checkbox"/>	1/2/2020 15:50	5 days		<input type="checkbox"/>	
			SW7471B (Mercury)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW6020 (CAM 17)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			TPH(g) & 8260 Scan-Sim by P&T GCMS			<input type="checkbox"/>		5 days		<input type="checkbox"/>	

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**McCAMPBELL ANALYTICAL, INC.**  
 1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701  
 Telephone: (877) 252-9262 / Fax: (925) 252-9269  
 www.mccampbell.com      main@mccampbell.com

**CHAIN OF CUSTODY RECORD**

Turn Around Time: 1 Day Rush  2 Day Rush  3 Day Rush  STD  Quote #   
 J-Flag / MDL  ESL  Cleanup Approved  Bottle Order # 10111  
 Delivery Format: PDF  GeoTracker EDF  EDD  Write On (DW)  EQuIS

Report To: Taylor Barret and Josh Graber      Bill To: 3374.0003S000  
 Company: Roux Associates, Inc.  
 Email: tbarrett@rouxinc.com and jgrabert@rouxinc.com  
 Alt Email: esiegel@rouxinc.com      Tele: 415-967-6015  
 Project Name: EBALDC - 285 12th Street      Project #: 3374.0003S000  
 Project Location: 285 12th Street, Oakland, CA      PO # 3374.0003S000  
 Sampler Signature: \_\_\_\_\_

**Analysis Requested**

SAMPLE ID Location / Field Point	Sampling		#Containers	Matrix	Preservative	Analysis Requested													HOLD								
	Date	Time				VOCs by E260B	TPH - oil by E260B	TPH - oil - Panday E015	PCBs by E081	OCs by E081	PAHs by E070	EM 17 metals 6070	Mercury by 74-71B	Asbestos by CAEE	435												
RB-1-0.0	1/3/19	0745	3	Soil	None	X	X	X	X	X	X	X	X	X	X	X											
RB-1-3.0		0750				X	X	X	X	X	X	X	X	X	X	X											X*
RB-1-5.0		0832				X	X	X	X	X	X	X	X	X	X	X											X*
RB-1-10.0		0840							L	D	D																X
RB-1-15.0		0855				X	X	HOLD	H	O	L	HOLD	HOLD	HOLD	HOLD	HOLD											X*
RB-1-20.0		0900							H	O	L	HOLD	HOLD	HOLD	HOLD	HOLD											X
RB-2-0.0		0845				X	X	X	X	X	X	X	X	X	X	X											X*
RB-2-3.0		0850				X	X	X	X	X	X	X	X	X	X	X											X*
RB-2-5.0		0925										X	X														X*
RB-2-10.0		0940																									X

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

\* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.

Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time
Jaye Barrett / Roux		1/3/19	1300	CAP		1/3/20	1310
LAP		1/3/20	1440	Nancy Palumbo		1/2/20	1440


Comments / Instructions  
 Please make sure the reporting limits are equal to or less than the residential ESLs  
 \* Hold some sample for Benches analysis

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other  
 Preservative Code: 1=4°C 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=ZnOAc/NaOH 7=None

Temp \_\_\_\_\_ °C      Initials \_\_\_\_\_

1.0 WET  
 Page 1 of 3



 <b>McCAMPBELL ANALYTICAL, INC.</b> 1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701 Telephone: (877) 252-9262 / Fax: (925) 252-9269 www.mccampbell.com      main@mccampbell.com	<b>CHAIN OF CUSTODY RECORD</b>							
	Turn Around Time: 1 Day Rush	2 Day Rush	3 Day Rush	STD <input checked="" type="radio"/>	Quote #			
	J-Flag / MDL	ESL	Cleanup Approved		Bottle Order # 10111			
	Delivery Format: PDF <input checked="" type="radio"/>	GeoTracker EDF <input type="radio"/>	EDD <input checked="" type="radio"/>	Write On (DW)		EQuIS		

Report To: Taylor Barret and Josh Graber      Bill To: 3374.0003S000

Company: Roux Associates, Inc.  
 Email: tbarrett@rouxinc.com and jgraber@rouxinc.com  
 Alt Email: esiegel@rouxinc.com      Tele: 415-967-6015  
 Project Name: EBALDC - 285 12th Street      Project #: 3374.0003S000  
 Project Location: 285 12th Street, Oakland, CA      PO # 3374.0003S000

Sampler Signature: \_\_\_\_\_

SAMPLE ID Location / Field Point	Sampling		#Containers	Matrix	Preservative	Analysis Requested											HOLD									
	Date	Time				VOLs by 8260B	TPH-g by 8260B	TPH-d/Total by 8015	PPe-PCBs by 8082	OCCs by 8081	PAHs by 8270	CAM Metals by 6020	Mercury by 7471B	ASbestos by CAP	J 435											
RB-2-15.0	1/3/19	0955	3	SOIL	None	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
RB-2-20.0	1/3/19	1010				X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
RB-3-0.0		1012				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
RB-3-3.0		1014				X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
RB-3-5.0		1115									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
RB-3-10.0		1120									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
RB-3-15.0		1135									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
RB-3-20.0		1155									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
RB-4-0.0	1/2/19	1440				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
RB-4-3.0	1/2/19	1445				X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
<i>Taylor Barret / Roux</i>	1/3/19	1300	<i>Nancy Palacios</i>	1/3/20	1300
<i>CAP</i>	1/3/20	1440		1/3/20	1440

Comments / Instructions  
 Please make sure the reporting limits are equal to or less than the residential ESLs  
 \* Hold some sample for remaining analyses

Temp \_\_\_\_\_ °C      Initials \_\_\_\_\_

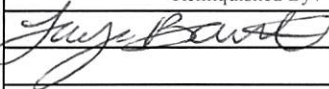

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other  
 Preservative Code: 1=4°C    2=HCl    3=H<sub>2</sub>SO<sub>4</sub>    4=HNO<sub>3</sub>    5=NaOH    6=ZnOAc/NaOH    7=None

	<b>McCAMPBELL ANALYTICAL, INC.</b>		<b>CHAIN OF CUSTODY RECORD</b>					
	1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701		Turn Around Time: 1 Day Rush		2 Day Rush	3 Day Rush	STD <input checked="" type="radio"/>	Quote #
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	www.mccampbell.com      main@mccampbell.com		Delivery Format: PDF <input checked="" type="radio"/>	GeoTracker EDF	EDD <input checked="" type="radio"/>	Write On (DW)		EQuIS

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 Email: tbarrett@rouxinc.com and jgrab@rouxinc.com  
 Alt Email: esiegel@rouxinc.com      Tele: 415-967-6015  
 Project Name: EBALDC - 285 12th Street      Project #: 3374.0003S000  
 Project Location: 285 12th Street, Oakland, CA      PO # 3374.0003S000  
 Sampler Signature: \_\_\_\_\_

SAMPLE ID Location / Field Point	Sampling		#Containers	Matrix	Preservative	Analysis Requested										HOLD						
	Date	Time				VOCs by E260B	TPH - of by E260A	TPH - of / me by E015	PCBs by E082	OCPs by E081	PAHs by E270	CRAM 17 Metals 6020	Mercury 7471B	Asbestos by Com 7435								
RB-4-5D	1/2/19	1500	3	SOIL	None																	X
RB-4-10.0		1510																				X
RB-4-15.0		1520																				X
RB-5-0.0		1530				X	X	X	X	X	X	X	X	X								
RB-5-3.0		1530				X	X	X	X	X	X	X	X	X								
RB-5-5.0		1550				X	X	X				X	X									X
RB-5-10.0		1555																				X
RB-5-15.0		1605																				X

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.						Comments / Instructions	
Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.						Please make sure the reporting limits are equal to or less than the residential ESLs	
Relinquished By / Company Name		Date	Time	Received By / Company Name			
 / Roux CAP		1/3/19	1300	 CAP		1/3/20	1300
		1/3/20	1490			1-3-20	1440

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other  
 Preservative Code: 1=4°C    2=HCl    3=H<sub>2</sub>SO<sub>4</sub>    4=HNO<sub>3</sub>    5=NaOH    6=ZnOAc/NaOH    7=None  
 Temp \_\_\_\_\_ °C    Initials \_\_\_\_\_ analyses





## Sample Receipt Checklist

Client Name: **Roux Associates, Inc.**  
 Project: **3374.0003S000; EBALDC-285 12th Street**  
 WorkOrder No: **2001093** Matrix: Soil  
 Carrier: Lorenzo Perez (MAI Courier)

Date and Time Received: **1/3/2020 14:40**  
 Date Logged: **1/3/2020**  
 Received by: Nancy Palacios  
 Logged by: Nancy Palacios

### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sampler's name noted on COC?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
COC agrees with Quote?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	NA <input type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE )

Sample/Temp Blank temperature	Temp: 1.8°C	NA <input type="checkbox"/>	
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

-----  
 Comments



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 2001099

**Report Created for:** Roux Associates, Inc.

555 12th Street, Suite 250  
Oakland, CA 94607

**Project Contact:** Joshua Graber

**Project P.O.:** 3374.0003S000

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Project Received:** 01/03/2020

Analytical Report reviewed & approved for release on 01/09/2020 by:

Yen Cao

Project Manager

*The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.*





## Glossary of Terms & Qualifier Definitions

**Client:** Roux Associates, Inc.  
**Project:** 3374.0003S000; EBALDC-285 12th Street  
**WorkOrder:** 2001099

### Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



## **Glossary of Terms & Qualifier Definitions**

**Client:** Roux Associates, Inc.  
**Project:** 3374.0003S000; EBALDC-285 12th Street  
**WorkOrder:** 2001099

### **Analytical Qualifiers**

J Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.  
S Spike recovery outside accepted recovery limits.  
c2 Surrogate recovery outside of the control limits due to matrix interference.  
e2 Diesel range compounds are significant; no recognizable pattern.  
e7 Oil range compounds are significant.  
e8 Pattern resembles kerosene/kerosene range/jet fuel range.

### **Quality Control Qualifiers**

F1 MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.



# Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/6/20-1/7/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001099  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-GW	2001099-001A	Water	01/03/2020 12:12	GC38 01062026.D	191736

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND		6.30	10	1	01/06/2020 22:56
tert-Amyl methyl ether (TAME)	ND		0.120	0.50	1	01/06/2020 22:56
Benzene	<b>0.13</b>	J	0.0290	0.20	1	01/06/2020 22:56
Bromobenzene	ND		0.120	0.50	1	01/06/2020 22:56
Bromochloromethane	ND		0.100	0.50	1	01/06/2020 22:56
Bromodichloromethane	ND		0.0250	0.050	1	01/06/2020 22:56
Bromoform	ND		0.270	0.50	1	01/06/2020 22:56
Bromomethane	<b>0.21</b>	J	0.190	0.50	1	01/06/2020 22:56
2-Butanone (MEK)	ND		1.90	5.0	1	01/06/2020 22:56
t-Butyl alcohol (TBA)	ND		1.70	5.0	1	01/06/2020 22:56
n-Butyl benzene	ND		0.220	0.50	1	01/06/2020 22:56
sec-Butyl benzene	ND		0.170	0.50	1	01/06/2020 22:56
tert-Butyl benzene	ND		0.130	0.50	1	01/06/2020 22:56
Carbon Disulfide	ND		0.260	0.50	1	01/06/2020 22:56
Carbon Tetrachloride	ND		0.0280	0.050	1	01/06/2020 22:56
Chlorobenzene	ND		0.100	0.50	1	01/06/2020 22:56
Chloroethane	ND		0.220	0.50	1	01/06/2020 22:56
Chloroform	ND		0.0520	0.10	1	01/06/2020 22:56
Chloromethane	ND		0.290	0.50	1	01/06/2020 22:56
2-Chlorotoluene	ND		0.140	0.50	1	01/06/2020 22:56
4-Chlorotoluene	ND		0.120	0.50	1	01/06/2020 22:56
Dibromochloromethane	ND		0.0590	0.15	1	01/06/2020 22:56
1,2-Dibromo-3-chloropropane	ND		0.00290	0.0050	1	01/06/2020 22:56
1,2-Dibromoethane (EDB)	ND		0.00340	0.0050	1	01/06/2020 22:56
Dibromomethane	ND		0.120	0.50	1	01/06/2020 22:56
1,2-Dichlorobenzene	ND		0.140	0.50	1	01/06/2020 22:56
1,3-Dichlorobenzene	ND		0.120	0.50	1	01/06/2020 22:56
1,4-Dichlorobenzene	ND		0.0890	0.50	1	01/06/2020 22:56
Dichlorodifluoromethane	ND		0.290	0.50	1	01/06/2020 22:56
1,1-Dichloroethane	ND		0.150	0.50	1	01/06/2020 22:56
1,2-Dichloroethane (1,2-DCA)	<b>4.6</b>		0.00750	0.010	1	01/06/2020 22:56
1,1-Dichloroethene	ND		0.00840	0.010	1	01/06/2020 22:56
cis-1,2-Dichloroethene	ND		0.0930	0.50	1	01/06/2020 22:56
trans-1,2-Dichloroethene	ND		0.110	0.50	1	01/06/2020 22:56
1,2-Dichloropropane	<b>0.076</b>	J	0.0170	0.20	1	01/06/2020 22:56
1,3-Dichloropropane	ND		0.180	0.50	1	01/06/2020 22:56
2,2-Dichloropropane	ND		0.230	0.50	1	01/06/2020 22:56

(Cont.)



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/6/20-1/7/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001099  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-GW	2001099-001A	Water	01/03/2020 12:12	GC38 01062026.D	191736

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.0950	0.50	1	01/06/2020 22:56
cis-1,3-Dichloropropene	ND		0.200	0.50	1	01/06/2020 22:56
trans-1,3-Dichloropropene	ND		0.260	0.50	1	01/06/2020 22:56
Diisopropyl ether (DIPE)	ND		0.120	0.50	1	01/06/2020 22:56
Ethylbenzene	ND		0.130	0.50	1	01/06/2020 22:56
Ethyl tert-butyl ether (ETBE)	ND		0.200	0.50	1	01/06/2020 22:56
Freon 113	ND		0.150	0.50	1	01/06/2020 22:56
Hexachlorobutadiene	ND		0.0520	0.10	1	01/06/2020 22:56
Hexachloroethane	ND		0.0580	0.20	1	01/06/2020 22:56
2-Hexanone	ND		0.420	0.50	1	01/06/2020 22:56
Isopropylbenzene	ND		0.160	0.50	1	01/06/2020 22:56
4-Isopropyl toluene	ND		0.150	0.50	1	01/06/2020 22:56
Methyl-t-butyl ether (MTBE)	ND		0.150	0.50	1	01/06/2020 22:56
Methylene chloride	ND		1.10	2.0	1	01/06/2020 22:56
4-Methyl-2-pentanone (MIBK)	ND		0.390	0.50	1	01/06/2020 22:56
Naphthalene	ND		0.0880	0.10	1	01/06/2020 22:56
n-Propyl benzene	ND		0.120	0.50	1	01/06/2020 22:56
Styrene	ND		0.340	2.0	1	01/06/2020 22:56
1,1,1,2-Tetrachloroethane	ND		0.140	0.50	1	01/06/2020 22:56
1,1,2,2-Tetrachloroethane	ND		0.00830	0.020	1	01/06/2020 22:56
Tetrachloroethene	ND		0.170	0.20	1	01/06/2020 22:56
Toluene	<b>0.19</b>	J	0.160	0.50	1	01/06/2020 22:56
1,2,3-Trichlorobenzene	ND		0.220	0.50	1	01/06/2020 22:56
1,2,4-Trichlorobenzene	ND		0.200	0.50	1	01/06/2020 22:56
1,1,1-Trichloroethane	ND		0.130	0.50	1	01/06/2020 22:56
1,1,2-Trichloroethane	ND		0.0540	0.20	1	01/06/2020 22:56
Trichloroethene	ND		0.0510	0.20	1	01/06/2020 22:56
Trichlorofluoromethane	ND		0.180	0.50	1	01/06/2020 22:56
1,2,3-Trichloropropane	ND		0.00470	0.0050	1	01/06/2020 22:56
1,2,4-Trimethylbenzene	ND		0.180	0.50	1	01/06/2020 22:56
1,3,5-Trimethylbenzene	ND		0.160	0.50	1	01/06/2020 22:56
Vinyl Chloride	ND		0.00430	0.0050	1	01/06/2020 22:56
m,p-Xylene	ND		0.240	0.50	1	01/06/2020 22:56
o-Xylene	ND		0.120	0.50	1	01/06/2020 22:56
Xylenes, Total	ND		N/A	0.50	1	01/06/2020 22:56

(Cont.)



# Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/6/20-1/7/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001099  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-GW	2001099-001A	Water	01/03/2020 12:12	GC38 01062026.D	191736

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
Dibromofluoromethane	93			78-112		01/06/2020 22:56
Toluene-d8	97			82-109		01/06/2020 22:56
4-BFB	91			63-121		01/06/2020 22:56

Analyst(s): KF



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/6/20-1/7/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001099  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
RB-2-GW	2001099-002A	Water	01/03/2020 12:28			GC38 01062027.D	191736
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed	
Acetone	ND		6.30	10	1	01/06/2020 23:34	
tert-Amyl methyl ether (TAME)	ND		0.120	0.50	1	01/06/2020 23:34	
Benzene	<b>0.077</b>	J	0.0290	0.20	1	01/06/2020 23:34	
Bromobenzene	ND		0.120	0.50	1	01/06/2020 23:34	
Bromochloromethane	ND		0.100	0.50	1	01/06/2020 23:34	
Bromodichloromethane	ND		0.0250	0.050	1	01/06/2020 23:34	
Bromoform	ND		0.270	0.50	1	01/06/2020 23:34	
Bromomethane	ND		0.190	0.50	1	01/06/2020 23:34	
2-Butanone (MEK)	ND		1.90	5.0	1	01/06/2020 23:34	
t-Butyl alcohol (TBA)	ND		1.70	5.0	1	01/06/2020 23:34	
n-Butyl benzene	ND		0.220	0.50	1	01/06/2020 23:34	
sec-Butyl benzene	ND		0.170	0.50	1	01/06/2020 23:34	
tert-Butyl benzene	ND		0.130	0.50	1	01/06/2020 23:34	
Carbon Disulfide	ND		0.260	0.50	1	01/06/2020 23:34	
Carbon Tetrachloride	ND		0.0280	0.050	1	01/06/2020 23:34	
Chlorobenzene	ND		0.100	0.50	1	01/06/2020 23:34	
Chloroethane	ND		0.220	0.50	1	01/06/2020 23:34	
Chloroform	ND		0.0520	0.10	1	01/06/2020 23:34	
Chloromethane	ND		0.290	0.50	1	01/06/2020 23:34	
2-Chlorotoluene	ND		0.140	0.50	1	01/06/2020 23:34	
4-Chlorotoluene	ND		0.120	0.50	1	01/06/2020 23:34	
Dibromochloromethane	ND		0.0590	0.15	1	01/06/2020 23:34	
1,2-Dibromo-3-chloropropane	ND		0.00290	0.0050	1	01/06/2020 23:34	
1,2-Dibromoethane (EDB)	ND		0.00340	0.0050	1	01/06/2020 23:34	
Dibromomethane	ND		0.120	0.50	1	01/06/2020 23:34	
1,2-Dichlorobenzene	ND		0.140	0.50	1	01/06/2020 23:34	
1,3-Dichlorobenzene	ND		0.120	0.50	1	01/06/2020 23:34	
1,4-Dichlorobenzene	ND		0.0890	0.50	1	01/06/2020 23:34	
Dichlorodifluoromethane	ND		0.290	0.50	1	01/06/2020 23:34	
1,1-Dichloroethane	ND		0.150	0.50	1	01/06/2020 23:34	
1,2-Dichloroethane (1,2-DCA)	<b>9.9</b>		0.00750	0.010	1	01/06/2020 23:34	
1,1-Dichloroethene	ND		0.00840	0.010	1	01/06/2020 23:34	
cis-1,2-Dichloroethene	ND		0.0930	0.50	1	01/06/2020 23:34	
trans-1,2-Dichloroethene	ND		0.110	0.50	1	01/06/2020 23:34	
1,2-Dichloropropane	<b>0.091</b>	J	0.0170	0.20	1	01/06/2020 23:34	
1,3-Dichloropropane	ND		0.180	0.50	1	01/06/2020 23:34	
2,2-Dichloropropane	ND		0.230	0.50	1	01/06/2020 23:34	

(Cont.)





# Analytical Report

**Client:** Roux Associates, Inc.

**WorkOrder:** 2001099

**Date Received:** 1/3/20 14:40

**Extraction Method:** SW5030B

**Date Prepared:** 1/6/20-1/7/20

**Analytical Method:** SW8260B

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-GW	2001099-002A	Water	01/03/2020 12:28	GC38 01062027.D	191736

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.0950	0.50	1	01/06/2020 23:34
cis-1,3-Dichloropropene	ND		0.200	0.50	1	01/06/2020 23:34
trans-1,3-Dichloropropene	ND		0.260	0.50	1	01/06/2020 23:34
Diisopropyl ether (DIPE)	ND		0.120	0.50	1	01/06/2020 23:34
Ethylbenzene	ND		0.130	0.50	1	01/06/2020 23:34
Ethyl tert-butyl ether (ETBE)	ND		0.200	0.50	1	01/06/2020 23:34
Freon 113	ND		0.150	0.50	1	01/06/2020 23:34
Hexachlorobutadiene	ND		0.0520	0.10	1	01/06/2020 23:34
Hexachloroethane	ND		0.0580	0.20	1	01/06/2020 23:34
2-Hexanone	ND		0.420	0.50	1	01/06/2020 23:34
Isopropylbenzene	ND		0.160	0.50	1	01/06/2020 23:34
4-Isopropyl toluene	ND		0.150	0.50	1	01/06/2020 23:34
Methyl-t-butyl ether (MTBE)	ND		0.150	0.50	1	01/06/2020 23:34
Methylene chloride	ND		1.10	2.0	1	01/06/2020 23:34
4-Methyl-2-pentanone (MIBK)	ND		0.390	0.50	1	01/06/2020 23:34
Naphthalene	ND		0.0880	0.10	1	01/06/2020 23:34
n-Propyl benzene	ND		0.120	0.50	1	01/06/2020 23:34
Styrene	ND		0.340	2.0	1	01/06/2020 23:34
1,1,1,2-Tetrachloroethane	ND		0.140	0.50	1	01/06/2020 23:34
1,1,2,2-Tetrachloroethane	ND		0.00830	0.020	1	01/06/2020 23:34
Tetrachloroethene	ND		0.170	0.20	1	01/06/2020 23:34
Toluene	ND		0.160	0.50	1	01/06/2020 23:34
1,2,3-Trichlorobenzene	ND		0.220	0.50	1	01/06/2020 23:34
1,2,4-Trichlorobenzene	ND		0.200	0.50	1	01/06/2020 23:34
1,1,1-Trichloroethane	ND		0.130	0.50	1	01/06/2020 23:34
1,1,2-Trichloroethane	ND		0.0540	0.20	1	01/06/2020 23:34
Trichloroethene	ND		0.0510	0.20	1	01/06/2020 23:34
Trichlorofluoromethane	ND		0.180	0.50	1	01/06/2020 23:34
1,2,3-Trichloropropane	ND		0.00470	0.0050	1	01/06/2020 23:34
1,2,4-Trimethylbenzene	ND		0.180	0.50	1	01/06/2020 23:34
1,3,5-Trimethylbenzene	ND		0.160	0.50	1	01/06/2020 23:34
Vinyl Chloride	ND		0.00430	0.0050	1	01/06/2020 23:34
m,p-Xylene	ND		0.240	0.50	1	01/06/2020 23:34
o-Xylene	ND		0.120	0.50	1	01/06/2020 23:34
Xylenes, Total	ND		N/A	0.50	1	01/06/2020 23:34

(Cont.)



# Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/6/20-1/7/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001099  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-GW	2001099-002A	Water	01/03/2020 12:28	GC38 01062027.D	191736

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
Dibromofluoromethane	94			78-112		01/06/2020 23:34
Toluene-d8	98			82-109		01/06/2020 23:34
4-BFB	91			63-121		01/06/2020 23:34

Analyst(s): KF



# Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/6/20-1/7/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001099  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-GW	2001099-003A	Water	01/03/2020 12:38	GC38 01062028.D	191736

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND		6.30	10	1	01/07/2020 00:11
tert-Amyl methyl ether (TAME)	ND		0.120	0.50	1	01/07/2020 00:11
Benzene	<b>0.058</b>	J	0.0290	0.20	1	01/07/2020 00:11
Bromobenzene	ND		0.120	0.50	1	01/07/2020 00:11
Bromochloromethane	ND		0.100	0.50	1	01/07/2020 00:11
Bromodichloromethane	ND		0.0250	0.050	1	01/07/2020 00:11
Bromoform	ND		0.270	0.50	1	01/07/2020 00:11
Bromomethane	<b>0.28</b>	J	0.190	0.50	1	01/07/2020 00:11
2-Butanone (MEK)	ND		1.90	5.0	1	01/07/2020 00:11
t-Butyl alcohol (TBA)	ND		1.70	5.0	1	01/07/2020 00:11
n-Butyl benzene	ND		0.220	0.50	1	01/07/2020 00:11
sec-Butyl benzene	ND		0.170	0.50	1	01/07/2020 00:11
tert-Butyl benzene	ND		0.130	0.50	1	01/07/2020 00:11
Carbon Disulfide	ND		0.260	0.50	1	01/07/2020 00:11
Carbon Tetrachloride	ND		0.0280	0.050	1	01/07/2020 00:11
Chlorobenzene	ND		0.100	0.50	1	01/07/2020 00:11
Chloroethane	ND		0.220	0.50	1	01/07/2020 00:11
Chloroform	<b>0.18</b>		0.0520	0.10	1	01/07/2020 00:11
Chloromethane	ND		0.290	0.50	1	01/07/2020 00:11
2-Chlorotoluene	ND		0.140	0.50	1	01/07/2020 00:11
4-Chlorotoluene	ND		0.120	0.50	1	01/07/2020 00:11
Dibromochloromethane	ND		0.0590	0.15	1	01/07/2020 00:11
1,2-Dibromo-3-chloropropane	ND		0.00290	0.0050	1	01/07/2020 00:11
1,2-Dibromoethane (EDB)	ND		0.00340	0.0050	1	01/07/2020 00:11
Dibromomethane	ND		0.120	0.50	1	01/07/2020 00:11
1,2-Dichlorobenzene	ND		0.140	0.50	1	01/07/2020 00:11
1,3-Dichlorobenzene	ND		0.120	0.50	1	01/07/2020 00:11
1,4-Dichlorobenzene	ND		0.0890	0.50	1	01/07/2020 00:11
Dichlorodifluoromethane	ND		0.290	0.50	1	01/07/2020 00:11
1,1-Dichloroethane	ND		0.150	0.50	1	01/07/2020 00:11
1,2-Dichloroethane (1,2-DCA)	<b>0.041</b>		0.00750	0.010	1	01/07/2020 00:11
1,1-Dichloroethene	ND		0.00840	0.010	1	01/07/2020 00:11
cis-1,2-Dichloroethene	ND		0.0930	0.50	1	01/07/2020 00:11
trans-1,2-Dichloroethene	ND		0.110	0.50	1	01/07/2020 00:11
1,2-Dichloropropane	ND		0.0170	0.20	1	01/07/2020 00:11
1,3-Dichloropropane	ND		0.180	0.50	1	01/07/2020 00:11
2,2-Dichloropropane	ND		0.230	0.50	1	01/07/2020 00:11

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## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/6/20-1/7/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001099  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-GW	2001099-003A	Water	01/03/2020 12:38	GC38 01062028.D	191736

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.0950	0.50	1	01/07/2020 00:11
cis-1,3-Dichloropropene	ND		0.200	0.50	1	01/07/2020 00:11
trans-1,3-Dichloropropene	ND		0.260	0.50	1	01/07/2020 00:11
Diisopropyl ether (DIPE)	ND		0.120	0.50	1	01/07/2020 00:11
Ethylbenzene	ND		0.130	0.50	1	01/07/2020 00:11
Ethyl tert-butyl ether (ETBE)	ND		0.200	0.50	1	01/07/2020 00:11
Freon 113	ND		0.150	0.50	1	01/07/2020 00:11
Hexachlorobutadiene	ND		0.0520	0.10	1	01/07/2020 00:11
Hexachloroethane	ND		0.0580	0.20	1	01/07/2020 00:11
2-Hexanone	ND		0.420	0.50	1	01/07/2020 00:11
Isopropylbenzene	ND		0.160	0.50	1	01/07/2020 00:11
4-Isopropyl toluene	ND		0.150	0.50	1	01/07/2020 00:11
Methyl-t-butyl ether (MTBE)	ND		0.150	0.50	1	01/07/2020 00:11
Methylene chloride	ND		1.10	2.0	1	01/07/2020 00:11
4-Methyl-2-pentanone (MIBK)	ND		0.390	0.50	1	01/07/2020 00:11
Naphthalene	ND		0.0880	0.10	1	01/07/2020 00:11
n-Propyl benzene	ND		0.120	0.50	1	01/07/2020 00:11
Styrene	ND		0.340	2.0	1	01/07/2020 00:11
1,1,1,2-Tetrachloroethane	ND		0.140	0.50	1	01/07/2020 00:11
1,1,2,2-Tetrachloroethane	ND		0.00830	0.020	1	01/07/2020 00:11
Tetrachloroethene	ND		0.170	0.20	1	01/07/2020 00:11
Toluene	<b>0.21</b>	J	0.160	0.50	1	01/07/2020 00:11
1,2,3-Trichlorobenzene	ND		0.220	0.50	1	01/07/2020 00:11
1,2,4-Trichlorobenzene	ND		0.200	0.50	1	01/07/2020 00:11
1,1,1-Trichloroethane	ND		0.130	0.50	1	01/07/2020 00:11
1,1,2-Trichloroethane	ND		0.0540	0.20	1	01/07/2020 00:11
Trichloroethene	ND		0.0510	0.20	1	01/07/2020 00:11
Trichlorofluoromethane	ND		0.180	0.50	1	01/07/2020 00:11
1,2,3-Trichloropropane	ND		0.00470	0.0050	1	01/07/2020 00:11
1,2,4-Trimethylbenzene	ND		0.180	0.50	1	01/07/2020 00:11
1,3,5-Trimethylbenzene	ND		0.160	0.50	1	01/07/2020 00:11
Vinyl Chloride	ND		0.00430	0.0050	1	01/07/2020 00:11
m,p-Xylene	ND		0.240	0.50	1	01/07/2020 00:11
o-Xylene	ND		0.120	0.50	1	01/07/2020 00:11
Xylenes, Total	ND		N/A	0.50	1	01/07/2020 00:11

(Cont.)



# Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/6/20-1/7/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001099  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-GW	2001099-003A	Water	01/03/2020 12:38	GC38 01062028.D	191736

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
Dibromofluoromethane	109			78-112		01/07/2020 00:11
Toluene-d8	97			82-109		01/07/2020 00:11
4-BFB	92			63-121		01/07/2020 00:11

Analyst(s): KF



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/6/20-1/7/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001099  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### TPH(g)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-GW	2001099-001A	Water	01/03/2020 12:12	GC38 01062026.D	191737

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	11	50	1	01/06/2020 22:56

Surrogates	REC (%)	Limits
Dibromofluoromethane	110	78-112

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-GW	2001099-002A	Water	01/03/2020 12:28	GC38 01062027.D	191737

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	11	50	1	01/06/2020 23:34

Surrogates	REC (%)	Limits
Dibromofluoromethane	111	78-112

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-GW	2001099-003A	Water	01/03/2020 12:38	GC38 01062028.D	191737

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	11	50	1	01/07/2020 00:11

Surrogates	REC (%)	Qualifiers	Limits
Dibromofluoromethane	113	S	78-112

Analyst(s): KF

Analytical Comments: c2



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 1/3/20 14:40  
**Date Prepared:** 1/3/20  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001099  
**Extraction Method:** SW3510C  
**Analytical Method:** SW8015B  
**Unit:** µg/L

### Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-GW	2001099-001B	Water	01/03/2020 12:12	GC31A 01062058.D	191677

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	3900	350	500	10	01/07/2020 04:43
TPH-Motor Oil (C18-C36)	33,000	1400	2500	10	01/07/2020 04:43

Surrogates	REC (%)	Limits
C9	109	70-130

Analyst(s): JIS

Analytical Comments: e2,e7,e8

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-2-GW	2001099-002B	Water	01/03/2020 12:28	GC31B 01062067.D	191677

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	1400	180	250	5	01/07/2020 07:58
TPH-Motor Oil (C18-C36)	10,000	700	1200	5	01/07/2020 07:58

Surrogates	REC (%)	Limits
C9	99	70-130

Analyst(s): JIS

Analytical Comments: e2,e7,e8

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-GW	2001099-003B	Water	01/03/2020 12:38	GC31A 01062024.D	191677

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	100	35	50	1	01/06/2020 17:41
TPH-Motor Oil (C18-C36)	390	140	250	1	01/06/2020 17:41

Surrogates	REC (%)	Limits
C9	104	70-130

Analyst(s): JIS

Analytical Comments: e2,e7



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 1/6/20 - 1/7/20  
**Date Analyzed:** 1/6/20 - 1/7/20  
**Instrument:** GC38  
**Matrix:** Water  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001099  
**BatchID:** 191736  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-191736  
 2001099-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	6.3	10	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.12	0.50	-	-	-
Benzene	ND	0.029	0.20	-	-	-
Bromobenzene	ND	0.12	0.50	-	-	-
Bromochloromethane	ND	0.10	0.50	-	-	-
Bromodichloromethane	ND	0.025	0.050	-	-	-
Bromoform	ND	0.27	0.50	-	-	-
Bromomethane	ND	0.19	0.50	-	-	-
2-Butanone (MEK)	ND	1.9	5.0	-	-	-
t-Butyl alcohol (TBA)	ND	1.7	5.0	-	-	-
n-Butyl benzene	ND	0.22	0.50	-	-	-
sec-Butyl benzene	ND	0.17	0.50	-	-	-
tert-Butyl benzene	ND	0.13	0.50	-	-	-
Carbon Disulfide	ND	0.26	0.50	-	-	-
Carbon Tetrachloride	ND	0.028	0.050	-	-	-
Chlorobenzene	ND	0.10	0.50	-	-	-
Chloroethane	ND	0.22	0.50	-	-	-
Chloroform	ND	0.052	0.10	-	-	-
Chloromethane	ND	0.29	0.50	-	-	-
2-Chlorotoluene	ND	0.14	0.50	-	-	-
4-Chlorotoluene	ND	0.12	0.50	-	-	-
Dibromochloromethane	ND	0.059	0.15	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.0029	0.0050	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0034	0.0050	-	-	-
Dibromomethane	ND	0.12	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.14	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.12	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.089	0.50	-	-	-
Dichlorodifluoromethane	ND	0.29	0.50	-	-	-
1,1-Dichloroethane	ND	0.15	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0075	0.010	-	-	-
1,1-Dichloroethene	ND	0.0084	0.010	-	-	-
cis-1,2-Dichloroethene	ND	0.093	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.11	0.50	-	-	-
1,2-Dichloropropane	ND	0.017	0.20	-	-	-
1,3-Dichloropropane	ND	0.18	0.50	-	-	-
2,2-Dichloropropane	ND	0.23	0.50	-	-	-
1,1-Dichloropropene	ND	0.095	0.50	-	-	-

(Cont.)





## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 1/6/20 - 1/7/20  
**Date Analyzed:** 1/6/20 - 1/7/20  
**Instrument:** GC38  
**Matrix:** Water  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001099  
**BatchID:** 191736  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-191736  
 2001099-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.20	0.50	-	-	-
trans-1,3-Dichloropropene	ND	0.26	0.50	-	-	-
Diisopropyl ether (DIPE)	ND	0.12	0.50	-	-	-
Ethylbenzene	ND	0.13	0.50	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.20	0.50	-	-	-
Freon 113	ND	0.15	0.50	-	-	-
Hexachlorobutadiene	ND	0.052	0.10	-	-	-
Hexachloroethane	ND	0.058	0.20	-	-	-
2-Hexanone	ND	0.42	0.50	-	-	-
Isopropylbenzene	ND	0.16	0.50	-	-	-
4-Isopropyl toluene	ND	0.15	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.15	0.50	-	-	-
Methylene chloride	ND	1.1	2.0	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.39	0.50	-	-	-
Naphthalene	ND	0.088	0.10	-	-	-
n-Propyl benzene	ND	0.12	0.50	-	-	-
Styrene	ND	0.34	2.0	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.14	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.0083	0.020	-	-	-
Tetrachloroethene	ND	0.17	0.20	-	-	-
Toluene	ND	0.16	0.50	-	-	-
1,2,3-Trichlorobenzene	ND	0.22	0.50	-	-	-
1,2,4-Trichlorobenzene	ND	0.20	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.13	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.054	0.20	-	-	-
Trichloroethene	ND	0.051	0.20	-	-	-
Trichlorofluoromethane	ND	0.18	0.50	-	-	-
1,2,3-Trichloropropane	ND	0.0047	0.0050	-	-	-
1,2,4-Trimethylbenzene	ND	0.18	0.50	-	-	-
1,3,5-Trimethylbenzene	ND	0.16	0.50	-	-	-
Vinyl Chloride	ND	0.0043	0.0050	-	-	-
m,p-Xylene	ND	0.24	0.50	-	-	-
o-Xylene	ND	0.12	0.50	-	-	-

(Cont.)



## Quality Control Report

<b>Client:</b>	Roux Associates, Inc.	<b>WorkOrder:</b>	2001099
<b>Date Prepared:</b>	1/6/20 - 1/7/20	<b>BatchID:</b>	191736
<b>Date Analyzed:</b>	1/6/20 - 1/7/20	<b>Extraction Method:</b>	SW5030B
<b>Instrument:</b>	GC38	<b>Analytical Method:</b>	SW8260B
<b>Matrix:</b>	Water	<b>Unit:</b>	µg/L
<b>Project:</b>	3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b>	MB/LCS/LCSD-191736 2001099-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
<b>Surrogate Recovery</b>						
Dibromofluoromethane	24			25	97	76-110
Toluene-d8	24			25	97	84-111
4-BFB	2.3			2.5	92	64-121



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 1/6/20 - 1/7/20  
**Date Analyzed:** 1/6/20 - 1/7/20  
**Instrument:** GC38  
**Matrix:** Water  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001099  
**BatchID:** 191736  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-191736  
 2001099-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	26	27	40	64	68	32-138	5.32	20
tert-Amyl methyl ether (TAME)	3.3	3.5	4	81	87	62-119	6.89	20
Benzene	3.8	4.0	4	94	101	71-126	7.30	20
Bromobenzene	4.2	4.4	4	104	109	66-117	4.39	20
Bromochloromethane	3.5	3.8	4	88	95	67-124	7.13	20
Bromodichloromethane	3.7	4.0	4	93	100	63-119	7.36	20
Bromoform	3.5	3.8	4	88	94	46-117	7.28	20
Bromomethane	4.1	4.5	4	104	111	32-171	7.23	20
2-Butanone (MEK)	11	12	16	67	73	48-136	8.07	20
t-Butyl alcohol (TBA)	11	12	16	68	72	40-131	5.65	20
n-Butyl benzene	4.5	4.8	4	112	119	75-125	6.01	20
sec-Butyl benzene	4.4	4.6	4	110	116	72-120	5.09	20
tert-Butyl benzene	4.3	4.6	4	107	114	63-118	6.40	20
Carbon Disulfide	3.7	4.0	4	93	101	64-126	8.04	20
Carbon Tetrachloride	4.2	4.5	4	104	112	67-122	7.76	20
Chlorobenzene	4.0	4.3	4	101	108	71-117	7.21	20
Chloroethane	3.8	4.2	4	96	105	53-136	9.55	20
Chloroform	3.9	4.2	4	98	105	67-126	7.50	20
Chloromethane	3.3	3.5	4	82	88	42-148	7.39	20
2-Chlorotoluene	4.2	4.5	4	106	113	70-117	6.18	20
4-Chlorotoluene	4.2	4.4	4	105	111	67-117	4.84	20
Dibromochloromethane	3.7	3.9	4	92	98	52-120	6.65	20
1,2-Dibromo-3-chloropropane	1.5	1.6	2	77	81	38-128	4.62	20
1,2-Dibromoethane (EDB)	1.6	1.7	2	81	87	58-117	6.94	20
Dibromomethane	3.4	3.6	4	84	90	66-120	6.37	20
1,2-Dichlorobenzene	4.0	4.3	4	100	106	71-117	6.03	20
1,3-Dichlorobenzene	4.1	4.4	4	103	110	74-116	6.17	20
1,4-Dichlorobenzene	4.0	4.3	4	100	108	71-115	7.81	20
Dichlorodifluoromethane	2.8	3.0	4	71	76	29-145	6.74	20
1,1-Dichloroethane	3.7	4.0	4	92	100	68-128	8.08	20
1,2-Dichloroethane (1,2-DCA)	3.4	3.6	4	86	89	61-123	3.86	20
1,1-Dichloroethene	3.8	4.1	4	94	102	65-126	8.01	20
cis-1,2-Dichloroethene	3.7	4.0	4	94	101	71-122	7.57	20
trans-1,2-Dichloroethene	3.9	4.2	4	98	105	70-126	7.25	20
1,2-Dichloropropane	3.5	3.8	4	88	95	67-124	7.81	20
1,3-Dichloropropane	3.7	4.0	4	93	99	65-120	6.09	20
2,2-Dichloropropane	4.0	4.2	4	99	106	71-127	6.79	20
1,1-Dichloropropene	3.8	4.2	4	96	104	69-122	7.99	20

(Cont.)



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 1/6/20 - 1/7/20  
**Date Analyzed:** 1/6/20 - 1/7/20  
**Instrument:** GC38  
**Matrix:** Water  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001099  
**BatchID:** 191736  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-191736  
 2001099-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	3.8	4.1	4	96	102	63-119	6.83	20
trans-1,3-Dichloropropene	3.6	3.8	4	89	95	63-116	6.66	20
Diisopropyl ether (DIPE)	3.2	3.5	4	80	87	64-128	8.14	20
Ethylbenzene	4.2	4.5	4	104	112	69-120	7.59	20
Ethyl tert-butyl ether (ETBE)	3.3	3.6	4	82	89	63-120	7.90	20
Freon 113	3.9	4.2	4	98	106	67-126	8.31	20
Hexachlorobutadiene	4.6	4.9	4	115	123	50-140	6.11	20
Hexachloroethane	3.9	4.2	4	99	105	52-122	6.09	20
2-Hexanone	2.4	2.6	4	61	64	39-121	5.01	20
Isopropylbenzene	4.4	4.6	4	109	114	69-120	4.60	20
4-Isopropyl toluene	4.4	4.7	4	109	117	72-122	6.73	20
Methyl-t-butyl ether (MTBE)	3.2	3.4	4	80	86	60-121	7.14	20
Methylene chloride	3.2	3.4	4	79	85	40-148	7.59	20
4-Methyl-2-pentanone (MIBK)	2.8	2.9	4	69	72	48-115	3.90	20
Naphthalene	3.6	3.7	4	90	93	62-124	3.55	20
n-Propyl benzene	4.4	4.7	4	109	116	70-118	6.74	20
Styrene	3.9	4.2	4	97	104	57-118	6.39	20
1,1,1,2-Tetrachloroethane	3.9	4.1	4	97	103	63-117	6.47	20
1,1,2,2-Tetrachloroethane	3.4	3.5	4	84	88	60-116	4.49	20
Tetrachloroethene	4.4	4.8	4	111	120	60-131	7.70	20
Toluene	4.0	4.2	4	99	106	67-115	6.87	20
1,2,3-Trichlorobenzene	4.0	4.2	4	99	104	60-128	4.91	20
1,2,4-Trichlorobenzene	4.3	4.5	4	108	113	61-133	4.66	20
1,1,1-Trichloroethane	4.0	4.4	4	101	109	67-124	7.68	20
1,1,2-Trichloroethane	3.5	3.7	4	87	93	62-117	6.62	20
Trichloroethene	3.9	4.2	4	97	104	69-120	7.53	20
Trichlorofluoromethane	4.0	4.3	4	99	107	60-134	7.67	20
1,2,3-Trichloropropane	1.6	1.7	2	81	84	56-120	4.04	20
1,2,4-Trimethylbenzene	4.1	4.4	4	103	109	67-124	5.55	20
1,3,5-Trimethylbenzene	4.3	4.5	4	106	112	69-122	5.03	20
Vinyl Chloride	1.5	1.7	2	77	83	52-145	7.29	20
m,p-Xylene	8.3	8.8	8	103	110	67-119	6.52	20
o-Xylene	4.0	4.3	4	101	108	68-120	7.19	20

(Cont.)



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 1/6/20 - 1/7/20  
**Date Analyzed:** 1/6/20 - 1/7/20  
**Instrument:** GC38  
**Matrix:** Water  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001099  
**BatchID:** 191736  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-191736  
 2001099-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
<b>Surrogate Recovery</b>								
Dibromofluoromethane	23	23	25	92	92	76-110	0	20
Toluene-d8	24	25	25	98	98	84-111	0	20
4-BFB	2.3	2.3	2.5	93	92	64-121	1.73	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	1	36	37	40	ND	89	92	32-183	3.46	20
tert-Amyl methyl ether (TAME)	1	3.6	3.7	4	ND	91	93	52-152	2.31	20
Benzene	1	3.9	3.8	4	ND	95	91	62-143	4.20	20
Bromobenzene	1	4.2	4.1	4	ND	105	103	52-139	1.31	20
Bromochloromethane	1	4.0	4.0	4	ND	100	100	53-154	0	20
Bromodichloromethane	1	4.0	3.9	4	ND	99	99	49-147	0	20
Bromoform	1	3.9	4.0	4	ND	98	101	32-153	2.80	20
Bromomethane	1	0.77	1.1	4	ND	14,F1	23	18-181	35.7,F1	20
2-Butanone (MEK)	1	13	15	16	ND	84	91	46-173	7.56	20
t-Butyl alcohol (TBA)	1	12	13	16	ND	78	82	25-198	5.30	20
n-Butyl benzene	1	4.5	4.2	4	ND	113	106	53-147	6.40	20
sec-Butyl benzene	1	4.2	4.0	4	ND	105	100	54-138	4.20	20
tert-Butyl benzene	1	4.1	3.9	4	ND	102	98	48-134	4.01	20
Carbon Disulfide	1	3.8	3.5	4	ND	94	88	46-148	7.08	20
Carbon Tetrachloride	1	4.1	3.8	4	ND	102	96	50-143	6.27	20
Chlorobenzene	1	4.1	4.0	4	ND	104	101	56-139	2.47	20
Chloroethane	1	3.7	3.6	4	ND	93	91	31-158	2.40	20
Chloroform	1	4.1	4.0	4	ND	103	99	38-161	3.07	20
Chloromethane	1	2.8	2.7	4	ND	70	67	24-158	4.63	20
2-Chlorotoluene	1	4.2	4.0	4	ND	104	100	53-136	3.21	20
4-Chlorotoluene	1	4.2	4.0	4	ND	104	99	51-136	4.83	20
Dibromochloromethane	1	4.0	4.1	4	ND	101	103	55-135	1.81	20
1,2-Dibromo-3-chloropropane	1	1.9	2.0	2	ND	95	100	26-168	5.40	20
1,2-Dibromoethane (EDB)	1	1.9	2.0	2	ND	95	98	50-146	3.53	20
Dibromomethane	1	3.8	3.8	4	ND	95	96	54-152	1.34	20
1,2-Dichlorobenzene	1	4.1	4.1	4	ND	103	104	55-143	0.536	20
1,3-Dichlorobenzene	1	4.2	4.1	4	ND	104	102	56-139	1.93	20
1,4-Dichlorobenzene	1	4.1	4.0	4	ND	103	101	54-138	2.04	20
Dichlorodifluoromethane	1	2.6	2.4	4	ND	64	60	15-152	5.53	20

(Cont.)



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 1/6/20 - 1/7/20  
**Date Analyzed:** 1/6/20 - 1/7/20  
**Instrument:** GC38  
**Matrix:** Water  
**Project:** 3374.0003S000; EBALDC-285 12th Street

**WorkOrder:** 2001099  
**BatchID:** 191736  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-191736  
 2001099-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloroethane	1	3.8	3.7	4	ND	95	91	52-151	4.28	20
1,2-Dichloroethane (1,2-DCA)	1	8.5	8.6	4	4.577	99	100	46-154	0.760	20
1,1-Dichloroethene	1	3.8	3.5	4	ND	94	88	47-149	6.70	20
cis-1,2-Dichloroethene	1	3.9	3.7	4	ND	97	93	41-158	3.83	20
trans-1,2-Dichloroethene	1	3.9	3.7	4	ND	99	93	51-151	6.39	20
1,2-Dichloropropane	1	3.8	3.7	4	ND	93	91	52-150	1.73	20
1,3-Dichloropropane	1	4.1	4.2	4	ND	103	106	53-149	3.03	20
2,2-Dichloropropane	1	3.6	3.5	4	ND	91	88	51-150	3.01	20
1,1-Dichloropropene	1	3.8	3.6	4	ND	94	89	53-142	5.97	20
cis-1,3-Dichloropropene	1	4.0	4.0	4	ND	101	100	49-143	0.296	20
trans-1,3-Dichloropropene	1	3.9	3.9	4	ND	97	98	49-145	0.943	20
Diisopropyl ether (DIPE)	1	3.6	3.6	4	ND	89	89	51-155	0	20
Ethylbenzene	1	4.2	4.0	4	ND	105	101	63-130	3.85	20
Ethyl tert-butyl ether (ETBE)	1	3.6	3.6	4	ND	90	91	50-153	1.17	20
Freon 113	1	3.8	3.6	4	ND	96	90	50-146	6.70	20
Hexachlorobutadiene	1	4.4	4.2	4	ND	111	104	30-163	5.82	20
Hexachloroethane	1	3.7	3.6	4	ND	93	89	26-157	4.67	20
2-Hexanone	1	3.3	3.5	4	ND	83	88	21-180	5.70	20
Isopropylbenzene	1	4.1	3.9	4	ND	103	98	50-140	4.42	20
4-Isopropyl toluene	1	4.3	4.2	4	ND	108	104	53-142	4.15	20
Methyl-t-butyl ether (MTBE)	1	3.6	3.7	4	ND	90	93	51-157	2.80	20
Methylene chloride	1	3.3	3.2	4	ND	83	81	23-177	2.14	20
4-Methyl-2-pentanone (MIBK)	1	3.6	3.8	4	ND	90	95	43-155	5.67	20
Naphthalene	1	4.3	4.4	4	ND	107	111	47-166	3.25	20
n-Propyl benzene	1	4.3	4.0	4	ND	106	100	45-146	6.06	20
Styrene	1	4.1	4.0	4	ND	102	100	26-150	1.85	20
1,1,1,2-Tetrachloroethane	1	4.0	4.0	4	ND	101	99	49-141	1.64	20
1,1,2,2-Tetrachloroethane	1	3.8	3.9	4	ND	94	98	44-159	3.91	20
Tetrachloroethene	1	4.3	4.1	4	ND	108	102	22-164	6.22	20
Toluene	1	4.1	4.0	4	ND	97	94	50-135	3.15	20
1,2,3-Trichlorobenzene	1	4.3	4.4	4	ND	108	111	40-165	1.98	20
1,2,4-Trichlorobenzene	1	4.6	4.5	4	ND	116	114	44-162	1.91	20
1,1,1-Trichloroethane	1	4.0	3.8	4	ND	99	94	51-144	5.56	20
1,1,2-Trichloroethane	1	3.9	4.0	4	ND	96	99	50-149	2.78	20
Trichloroethene	1	3.8	3.6	4	ND	96	90	33-159	5.65	20
Trichlorofluoromethane	1	3.9	3.6	4	ND	97	91	47-151	6.52	20
1,2,3-Trichloropropane	1	1.8	1.9	2	ND	91	95	45-158	3.91	20
1,2,4-Trimethylbenzene	1	4.1	4.0	4	ND	104	99	61-132	4.37	20

(Cont.)



## Quality Control Report

<b>Client:</b>	Roux Associates, Inc.	<b>WorkOrder:</b>	2001099
<b>Date Prepared:</b>	1/6/20 - 1/7/20	<b>BatchID:</b>	191736
<b>Date Analyzed:</b>	1/6/20 - 1/7/20	<b>Extraction Method:</b>	SW5030B
<b>Instrument:</b>	GC38	<b>Analytical Method:</b>	SW8260B
<b>Matrix:</b>	Water	<b>Unit:</b>	µg/L
<b>Project:</b>	3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b>	MB/LCS/LCSD-191736 2001099-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene	1	4.1	4.0	4	ND	103	99	35-159	3.92	20
Vinyl Chloride	1	1.3	1.3	2	ND	67	63	34-161	6.10	20
m,p-Xylene	1	8.4	8.1	8	ND	104	101	63-126	3.46	20
o-Xylene	1	4.2	4.1	4	ND	105	102	43-153	3.36	20
<b>Surrogate Recovery</b>										
Dibromofluoromethane	1	24	24	25		97	97	78-112	0	20
Toluene-d8	1	24	24	25		96	96	82-109	0	20
4-BFB	1	2.3	2.3	2.5		91	91	63-121	0	20



## Quality Control Report

<b>Client:</b> Roux Associates, Inc.	<b>WorkOrder:</b> 2001099
<b>Date Prepared:</b> 1/6/20	<b>BatchID:</b> 191737
<b>Date Analyzed:</b> 1/6/20	<b>Extraction Method:</b> SW5030B
<b>Instrument:</b> GC38	<b>Analytical Method:</b> SW8260B
<b>Matrix:</b> Water	<b>Unit:</b> µg/L
<b>Project:</b> 3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b> MB/LCS/LCSD-191737

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	11	50	-	-	-
<b>Surrogate Recovery</b>						
Dibromofluoromethane	27			25	109	76-110

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(g) (C6-C12)	180	190	200	91	95	70-118	5.23	20
<b>Surrogate Recovery</b>								
Dibromofluoromethane	27	27	25	107	107	76-110	0	20





## Quality Control Report

<b>Client:</b> Roux Associates, Inc.	<b>WorkOrder:</b> 2001099
<b>Date Prepared:</b> 1/3/20	<b>BatchID:</b> 191677
<b>Date Analyzed:</b> 1/3/20	<b>Extraction Method:</b> SW3510C
<b>Instrument:</b> GC11A	<b>Analytical Method:</b> SW8015B
<b>Matrix:</b> Water	<b>Unit:</b> µg/L
<b>Project:</b> 3374.0003S000; EBALDC-285 12th Street	<b>Sample ID:</b> MB/LCS/LCSD-191677

### QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	35	50	-	-	-
TPH-Motor Oil (C18-C36)	ND	140	250	-	-	-
<b>Surrogate Recovery</b>						
C9	590			625	95	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1100	1100	1000	114	113	70-130	0.338	20
<b>Surrogate Recovery</b>								
C9	560	570	625	90	90	70-130	0	20



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

WaterTrax     WriteOn     EDF

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 2001099

ClientCode: RASF

Excel     EQuIS     Email     HardCopy     ThirdParty     J-flag  
 Detection Summary     Dry-Weight

**Report to:**

Joshua Graber  
Roux Associates, Inc.  
555 12th Street, Suite 250  
Oakland, CA 94607  
(415) 967-6027    FAX: (415) 967-6001

Email: jgrab@rouxinc.com  
cc/3rd Party: tbarrett@rouxinc.com;  
PO:  
Project: 3374.0003S000; EBALDC-285 12th Street

**Bill to:**

Accounts Payable/Donna Andrusco  
Roux Associates, Inc.  
209 Shafter Street  
Islandia, NY 11749-5074  
Rouxap@rouxinc.com

**Requested TAT: 5 days;**

**Date Received: 01/03/2020**

**Date Logged: 01/03/2020**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
2001099-001	RB-1-GW	Water	1/3/2020 12:12	<input type="checkbox"/>	A	A	A	B									
2001099-002	RB-2-GW	Water	1/3/2020 12:28	<input type="checkbox"/>	A	A	A	B									
2001099-003	RB-3-GW	Water	1/3/2020 12:38	<input type="checkbox"/>	A	A	A	B									

**Test Legend:**

1	8260B_Scan-SIM_W	2	8260GAS_W	3	PRDisposal Fee	4	TPH(DMO)_W
5		6		7		8	
9		10		11		12	

**Project Manager: Susan Thompson**

**Prepared by: Nancy Palacios**

The following SamplIDs: 001A, 002A, 003A contain testgroup Gas8260\_Scan-Sim\_W.

**Comments:**    Susan is PM

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



### WORK ORDER SUMMARY

**Client Name:** ROUX ASSOCIATES, INC.

**Project:** 3374.0003S000; EBALDC-285 12th Street

**Work Order:** 2001099

**Client Contact:** Joshua Graber

**QC Level:** LEVEL 2

**Contact's Email:** jgraber@rouxinc.com

**Comments:** Susan is PM

**Date Logged:** 1/3/2020

WaterTrax     WriteOn     EDF     Excel     EQUIS     Email     HardCopy     ThirdParty     J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2001099-001A	RB-1-GW	Water	TPH(g) & 8260 by P&T GCMS	2	VOA w/ HCl	<input type="checkbox"/>	1/3/2020 12:12	5 days	Present	<input type="checkbox"/>	
2001099-001B	RB-1-GW	Water	SW8015B (Diesel & Motor Oil)	2	aVOA, Unpres	<input type="checkbox"/>	1/3/2020 12:12	5 days	Present	<input type="checkbox"/>	
2001099-002A	RB-2-GW	Water	TPH(g) & 8260 by P&T GCMS	2	VOA w/ HCl	<input type="checkbox"/>	1/3/2020 12:28	5 days	Present	<input type="checkbox"/>	
2001099-002B	RB-2-GW	Water	SW8015B (Diesel & Motor Oil)	2	aVOA, Unpres	<input type="checkbox"/>	1/3/2020 12:28	5 days	Present	<input type="checkbox"/>	
2001099-003A	RB-3-GW	Water	TPH(g) & 8260 by P&T GCMS	2	VOA w/ HCl	<input type="checkbox"/>	1/3/2020 12:38	5 days	Present	<input type="checkbox"/>	
2001099-003B	RB-3-GW	Water	SW8015B (Diesel & Motor Oil)	2	aVOA, Unpres	<input type="checkbox"/>	1/3/2020 12:38	5 days	Present	<input type="checkbox"/>	

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

6  **McCAMPBELL ANALYTICAL, INC.**  
 1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701  
 Telephone: (877) 252-9262 / Fax: (925) 252-9269  
 www.mcccampbell.com main@mcccampbell.com

**CHAIN OF CUSTODY RECORD**

Turn Around Time: 1 Day Rush  2 Day Rush  3 Day Rush  STD  Quote # \_\_\_\_\_

J-Flag / MDL \_\_\_\_\_ ESL \_\_\_\_\_ Cleanup Approved  Bottle Order # 10111

Delivery Format: PDF  GeoTracker EDF  EDD  Write On (DW)  EQuIS

Report To: Josh Graber and Taylor Barrett Bill To: 3374.0003S000

Company: Roux Associates, Inc.

Email: jgraber@rouxinc.com and tbarrett@rouxinc.com

Alt Email: esiegel@rouxinc.com Tele: 415-967-6015

Project Name: EBALDC - 285 12th Street Project #: 3374.0003S000

Project Location: 285 12th Street, Oakland, CA PO # 3374.0003S000

Sampler Signature: \_\_\_\_\_

SAMPLE ID Location / Field Point	Sampling		#Containers	Matrix	Preservative	VOCs by USEPA Method 8260B	TPH-g by USEPA Method 8260B	TPH-dl-mo by USEPA Method 8015	Analysis Requested															
	Date	Time																						
RB-1-GW	1/3/19	12:12	4	GW	None, HCl	●	●	●																
RB-2-GW		12:28	4	GW	None, HCl	●	●	●																
RB-3-GW		12:38	4	GW	None, HCl	●	●	●																

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

\* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.

Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
Jay Barrett / Roux	1/3/19	13:00	LAP	1/3/20	13:10
LAP	1/3/20	14:40	Nancy [Signature]	1-3-20	1440

Comments / Instructions

Please make sure the reporting limits are equal to or less than the residential ESLs

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other  
 Preservative Code: 1=4°C 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=ZnOAc/NaOH 7=None

Temp 1.0 °C Initials wet

Page 1 of 1



## Sample Receipt Checklist

Client Name: **Roux Associates, Inc.**  
 Project: **3374.0003S000; EBALDC-285 12th Street**  
 WorkOrder No: **2001099** Matrix: Water  
 Carrier: Lorenzo Perez (MAI Courier)

Date and Time Received: **1/3/2020 14:40**  
 Date Logged: **1/3/2020**  
 Received by: Nancy Palacios  
 Logged by: Nancy Palacios

### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sampler's name noted on COC?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
COC agrees with Quote?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE )

Sample/Temp Blank temperature		Temp: 1°C	NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

#### UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

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 Comments

**BlaineTech Service Groundwater Monitoring Well Development  
Field Logs**

WELL GAUGING SHEET

Project # 200901-ww1 Date 4-1-2020

Client ROUX ASSOCIATES

Site: 285 12<sup>TH</sup> Street - Oakland, CA

Page: 1 OF 1

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Depth to well bottom after Development (ft.)	Survey Point: TOB or TOC	Notes
RBMW-1	0851	2					24.10	31.62	31.82	TOC	

# WELL DEVELOPMENT DATA SHEET

p 1/2

Project #: 200-101-1111	Client: <b>ROUX @ 285 12<sup>TH</sup> Street - Oakland, CA</b>
Developer: <i>mw</i>	Date Developed: 4-1-2020
Well I.D. <b>RBMW-1</b>	Well Diameter (inch): <b>2</b>
Total Well Depth: <i>part 2: 31.82</i> Before 31.62 After 31.82	Depth to Water: <i>part 1 part 2</i> Before 24.10 After 24.49; 24.28
Reason not developed: <i>/</i>	If Free Product, thickness: <i>/</i>
Additional Notations: <i>SWABBS WELL 10 MIN PRIOR TO PURGE</i>	

Volume Conversion Factor (VCF):  
 $(12 \times (d^2/4) \times \pi) / 231$   
 where  
 12 = in / foot  
 d = diameter (in.)  
 $\pi = 3.1416$   
 231 = in<sup>3</sup>/gal

Well dia.	VCF
2" =	0.16
3" =	0.37
4" =	0.65
6" =	1.47
10" =	4.08
12" =	6.87

<u>1.2</u>	X	<u>10</u>	=	<u>12</u>	gallons
1 Case Volume		Specified Volumes			

- Purging Device:
- Bailer
  - Suction Pump
  - Electric Submersible
  - Positive Air Displacement

Type of Installed Pump MIDDLE BORE  
 Other equipment used 2" SWAB

TIME	TEMP (°C)	pH	Cond. (µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
0933	17.0	6.49	2354	>1000	1.2	brown, FINE SAND
0935	16.6	6.81	2389	>1000	2.4	"
0938	18.2	6.70	1807	>1000	3.6	"
0940	18.1	6.67	1640	>1000	4.8	light brown; HARD BOTTOM
0943	18.0	6.65	1520	>1000	6.0	"
0946	17.9	6.62	1400	>1000	7.2	"
0951	18.3	6.62	1232	>1000	8.4	"
0953	18.1	6.58	1125	>1000	9.6	"
0956	18.3	6.59	1124	>1000	10.8	"
0958	18.6	6.65	1047	>1000	12	light brown; HARD BOTTOM
1158	RESTART PURGE PER CLIENT					
1203	17.9	6.90	1096	>1000	13.2	tan; HARD BOTTOM
1205	18.6	6.66	1024	>1000	14.4	tan; HARD BOTTOM
Did Well Dewater? <b>NO</b>		If yes, note above.		Gallons Actually Evacuated:		<b>19.2</b>





# WELLHEAD INSPECTION CHECKLIST

Date: 4-1-2010

Client: ROUX ASSOCIATES

Project Name/Site Address: 285 12<sup>TH</sup> Street - Oakland, CA

Job #: 200401-wwi

Technician(s): ww

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Debris Removed From Wellbox	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
RBMW-1	☺							

NOTES: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## SPH or Purge Water Drum Log

Client: **ROUX ASSOCIATES**

Site Address: 285 12<sup>TH</sup> Street - Oakland, CA

STATUS OF DRUM(S) UPON ARRIVAL						
Date	4-1-2020					
Number of drum(s) empty:						
Number of drum(s) 1/4 full:						
Number of drum(s) 1/2 full:						
Number of drum(s) 3/4 full:						
Number of drum(s) full:	4 $\frac{1-PES}{3-ROUX}$					
Total drum(s) on site:	4 $\frac{1-PES}{3-ROUX}$					
Are the drum(s) properly labeled?	yes					
Drum ID & Contents:	soil purge water					
If any drum(s) are partially or totally filled, what is the first use date:	NA					

- If you add any SPH to an empty or partially filled drum, drum must have at least 20 gals. of Purgewater or DI Water.

-If drum contains SPH, the drum MUST be steel AND labeled with the appropriate label.

-All BTS drums MUST be labeled appropriately.

STATUS OF DRUM(S) UPON DEPARTURE						
Date	4-1-2020					
Number of drums empty:						
Number of drum(s) 1/4 full:						
Number of drum(s) 1/2 full:	1-ROUX					
Number of drum(s) 3/4 full:						
Number of drum(s) full:	4					
Total drum(s) on site:	5					
Are the drum(s) properly labeled?	yes					
Drum ID & Contents:	soil purge water					

LOCATION OF DRUM(S)	
Describe location of drum(s):	North side of property inside of 12 <sup>TH</sup> St. entrance gate near MW-1.

FINAL STATUS						
# of new drum(s) left onsite this event	1					
Date of inspection:	4-1-2020					
Drum(s) labelled properly:	yes					
Logged by BTS Field Tech:	WW					
Office reviewed by:	GR					

WELL GAUGING SHEET

Project # 200401-WW1 Date 4/3/2020 Client ROUX ASSOCIATES

Site: 285 12<sup>TH</sup> Street - Oakland, CA Page: 1 OF 1

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
RBMW-1	1005	2	—	—	—	—	24.10	31.73	TOC	
									TOC	
									TOC	
									TOC	
									TOC	
									TOC	
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									TOC	
									TOC	

## LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>200401-WW1</u>	Client: <b>ROUX @ 285 12<sup>TH</sup> Street - Oakland, CA</b>
Sampler: <u>BL</u>	Start Date: <u>4/3/2020</u>
Well I.D.: <u>RBMW-1</u>	Well Diameter (inch): <u>2</u>
Total Well Depth: <u>31.73</u>	Depth to Water: Pre: <u>24.10</u> Post: <u>24.15</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>TOC</u>	Flow Cell Type: <u>YSI Pro Plus</u>

Purge Method: **Bladder Pump** Other: \_\_\_\_\_  
 Sampling Method: **New Tubing/Bladder** Other: \_\_\_\_\_

Screen Interval: 22-32

Start Purge: 1018 Flow Rate: 200 ml/min Pump Depth: 27

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
1021	18.7	6.29	1154	841	0.98	106.0	600	24.15	cloudy
1024	19.2	6.66	1135	369	0.80	94.2	1200	24.15	" "
1027	19.2	6.67	1129	218	0.91	92.3	1800	24.15	" "
1030	19.3	6.71	1112	191	0.86	91.5	2400	24.15	" "
1033	19.3	6.72	1107	163	0.70	89.1	3000	24.15	" "
1036	19.4	6.76	1090	150	0.67	87.4	3600	24.15	" "
1039	19.3	6.76	1076	147	0.66	85.8	4200	24.15	" "

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>4200</u> ml
Sampling Time: <u>1043</u>	Sampling Date: <u>4/3/2020</u>
Sample I.D.: <u>RBMW-1</u>	Laboratory: <b>McC Campbell</b>
Analyzed for: <b>SEE COC</b>	
Blank I.D.: <u>TB1</u> @ Time <u>0930</u>	Duplicate I.D.: _____ @ Time _____
Analyzed for: <b>SEE COC</b>	

# WELLHEAD INSPECTION CHECKLIST

Page: 1 of 1

Date: 4/3/2020 Client: ROUX ASSOCIATES

Project Name/Site Address: 285 12<sup>TH</sup> Street - Oakland, CA

Job #: 200401-ww1 Technician(s): BL

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Debris Removed From Wellbox	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
RBMW-1	X							

NOTES: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME: ROUX @ 285 12 <sup>TH</sup> Street - Oakland, CA		PROJECT NUMBER: 200401-0001					
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP. (°C)	Standard Lot# / Exp. Date /
MILTON C ROPLUS	6242609	4-1-2020 09:15	PH: 4.710 CON: 3900µS	PH: 7.00, 10.00 4.00 CON: 3900µS	YES	15.6	71035002 / 12-20 10: 035203 / 12-20 11: 035173 / 10-20 CON: 036761 / 12-20 CRP: 032120 / 4-24
YSI ROPLUS	19B103577	4/3/2020 09:40	PH: 7.10, 4	7.00, 10.00, 4.00	YES	17.0	035202 / DEC 2020 035203 / DEC 2020 031273 / 10-20
"	"	"	CON: 3900µS	3900µS	YES	17.0	036761 / Dec-20 038120 / April 21
"	"	"	OFF: 243.1mV	243.1mV	YES	17.0	
"	"	"	DO: 100%	100%	YES	17.0	

Supplemental ESA Analytical Reports





# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 2003715

**Report Created for:** Roux Associates, Inc.

555 12th Street, Suite 250  
Oakland, CA 94607

**Project Contact:** Taylor Barrett

**Project P.O.:**

**Project:** 3347.0003S000; 285 12th Street

**Project Received:** 03/12/2020

Analytical Report reviewed & approved for release on 03/18/2020 by:

Angela Rydelius  
Laboratory Manager

*The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.*





## Glossary of Terms & Qualifier Definitions

**Client:** Roux Associates, Inc.  
**Project:** 3347.0003S000; 285 12th Street  
**WorkOrder:** 2003715

### Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



## **Glossary of Terms & Qualifier Definitions**

**Client:** Roux Associates, Inc.  
**Project:** 3347.0003S000; 285 12th Street  
**WorkOrder:** 2003715

### **Quality Control Qualifiers**

F10 MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix.



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 03/12/2020 16:10  
**Date Prepared:** 03/13/2020  
**Project:** 3347.0003S000; 285 12th Street

**WorkOrder:** 2003715  
**Extraction Method:** SW5035  
**Analytical Method:** SW8021B/8015Bm  
**Unit:** mg/Kg

### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-10.0	2003715-002A	Soil	03/12/2020 09:15	GC7 03162037.D	195636

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.70	1.0	1	03/17/2020 06:14
MTBE	---	0.0040	0.050	1	03/17/2020 06:14
Benzene	---	0.0030	0.0050	1	03/17/2020 06:14
Toluene	---	0.0020	0.0050	1	03/17/2020 06:14
Ethylbenzene	---	0.0022	0.0050	1	03/17/2020 06:14
m,p-Xylene	---	0.0030	0.010	1	03/17/2020 06:14
o-Xylene	---	0.0010	0.0050	1	03/17/2020 06:14
Xylenes	---	NA	0.0050	1	03/17/2020 06:14

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	97	62-126	03/17/2020 06:14

**Analyst(s):** IA



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 03/12/2020 16:10  
**Date Prepared:** 03/13/2020  
**Project:** 3347.0003S000; 285 12th Street

**WorkOrder:** 2003715  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-S01-3.0-D	2003715-003A	Soil	03/12/2020 13:40	ICP-MS4 282SMPL.d	195616

Analytes	Result	MDL	RL	DF	Date Analyzed
Lead	3.4	0.094	0.50	1	03/16/2020 21:40

Surrogates	REC (%)	Limits
Terbium	104	70-130

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-S01-3.0-A	2003715-005A	Soil	03/12/2020 14:10	ICP-MS2 033SMPL.D	195628

Analytes	Result	MDL	RL	DF	Date Analyzed
Lead	2.7	0.094	0.50	1	03/16/2020 12:11

Surrogates	REC (%)	Limits
Terbium	110	70-130

Analyst(s): ND



# Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 03/12/2020 16:10  
**Date Prepared:** 03/13/2020  
**Project:** 3347.0003S000; 285 12th Street

**WorkOrder:** 2003715  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8015B  
**Unit:** mg/Kg

## Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-1-10.0	2003715-002A	Soil	03/12/2020 09:15	GC6A 03162018.D	195633

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	0.83	1.0	1	03/16/2020 14:50

Surrogates	REC (%)	Limits
C9	85	70-130

Analyst(s): JIS



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 03/12/2020  
**Date Analyzed:** 03/13/2020 - 03/16/2020  
**Instrument:** GC7  
**Matrix:** Soil  
**Project:** 3347.0003S000; 285 12th Street

**WorkOrder:** 2003715  
**BatchID:** 195636  
**Extraction Method:** SW5035  
**Analytical Method:** SW8021B/8015Bm  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-195636

### QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	0.700	1.00	-	-	-
MTBE	ND	0.00400	0.0500	-	-	-
Benzene	ND	0.00300	0.00500	-	-	-
Toluene	ND	0.00200	0.00500	-	-	-
Ethylbenzene	ND	0.00220	0.00500	-	-	-
m,p-Xylene	ND	0.00300	0.0100	-	-	-
o-Xylene	ND	0.00100	0.00500	-	-	-

**Surrogate Recovery**

2-Fluorotoluene	0.0997			0.1	100	75-134
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Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	0.644	0.653	0.60	107	109	82-118	1.28	20
MTBE	0.104	0.103	0.10	104	103	61-119	0.601	20
Benzene	0.100	0.104	0.10	100	104	77-128	3.66	20
Toluene	0.105	0.108	0.10	105	108	74-132	2.62	20
Ethylbenzene	0.103	0.107	0.10	103	107	84-127	3.81	20
m,p-Xylene	0.215	0.226	0.20	107	113	80-120	5.04	20
o-Xylene	0.101	0.105	0.10	101	105	80-120	4.21	20

**Surrogate Recovery**

2-Fluorotoluene	0.0961	0.101	0.10	96	101	75-134	4.60	20
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## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 03/13/2020  
**Date Analyzed:** 03/13/2020 - 03/14/2020  
**Instrument:** ICP-MS4  
**Matrix:** Soil  
**Project:** 3347.0003S000; 285 12th Street

**WorkOrder:** 2003715  
**BatchID:** 195616  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-195616

### QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Lead	ND	0.0940	0.500	-	-	-
<b>Surrogate Recovery</b>						
Terbium	528			500	106	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Lead	50.5	50.1	50	101	100	75-125	0.809	20
<b>Surrogate Recovery</b>								
Terbium	528	516	500	106	103	70-130	2.39	20





## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 03/13/2020  
**Date Analyzed:** 03/13/2020  
**Instrument:** ICP-MS3  
**Matrix:** Soil  
**Project:** 3347.0003S000; 285 12th Street

**WorkOrder:** 2003715  
**BatchID:** 195628  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-195628  
 2003715-004AMS/MSD  
 2003715-004APDS

### QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Lead	ND	0.0940	0.500	-	-	-
<b>Surrogate Recovery</b>						
Terbium	500			500	100	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Lead	48.2	48.9	50	96	98	75-125	1.57	20
<b>Surrogate Recovery</b>								
Terbium	491	502	500	98	100	70-130	2.19	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	1	92.9	100	50	31.67	122	137,F10	75-125	7.69	20
<b>Surrogate Recovery</b>										
Terbium	1	514	491	500		103	98	70-130	4.64	20

Analyte	PDS Result	SPK Val	SPKRef Val	PDS %REC	PDS Limits
Lead	78.6	50	31.67	94	75-125

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Lead	30.7	31.67	3.06	20

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 03/12/2020  
**Date Analyzed:** 03/14/2020  
**Instrument:** GC11B, GC31B  
**Matrix:** Soil  
**Project:** 3347.0003S000; 285 12th Street

**WorkOrder:** 2003715  
**BatchID:** 195633  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8015B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-195633

### QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	0.830	1.00	-	-	-
TPH-Motor Oil (C18-C36)	ND	3.80	5.00	-	-	-
<b>Surrogate Recovery</b>						
C9	25.8			25	103	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	40.1	40.0	40	100	100	70-130	0.470	20
<b>Surrogate Recovery</b>								
C9	26.3	26.0	25	105	104	70-130	1.27	20



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 2003715

ClientCode: RASF

- WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQulS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag  
 Detection Summary   
  Dry-Weight

**Report to:**

Taylor Barrett  
Roux Associates, Inc.  
555 12th Street, Suite 250  
Oakland, CA 94607  
(415) 967-6027    FAX: (415) 967-6001

Email: tbarrett@rouxinc.com  
cc/3rd Party: jgraber@rouxinc.com; abroffman@rouxinc.  
PO:  
Project: 3347.0003S000; 285 12th Street

**Bill to:**

Accounts Payable/Donna Andrusco  
Roux Associates, Inc.  
209 Shafter Street  
Islandia, NY 11749-5074  
Rouxap@rouxinc.com

**Requested TAT: 5 days;**

**Date Received: 03/12/2020**

**Date Logged: 03/12/2020**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
2003715-001	RB-1-8.0	Soil	3/12/2020 09:20	<input checked="" type="checkbox"/>			A	A									
2003715-002	RB-1-10.0	Soil	3/12/2020 09:15	<input type="checkbox"/>	A	A	A		A								
2003715-003	RB-3-S01-3.0-D	Soil	3/12/2020 13:40	<input type="checkbox"/>		A	A										
2003715-004	RB-3-S02-3.0-D	Soil	3/12/2020 13:45	<input checked="" type="checkbox"/>		A	A	A									
2003715-005	RB-3-S01-3.0-A	Soil	3/12/2020 14:10	<input type="checkbox"/>		A	A										
2003715-006	RB-3-S02-3.0-A	Soil	3/12/2020 14:25	<input checked="" type="checkbox"/>		A	A	A									
2003715-007	RB-3-S03-3.0-A	Soil	3/12/2020 14:30	<input checked="" type="checkbox"/>		A	A	A									

**Test Legend:**

1	G-MBTEx_S	2	PBMS_TTLC_S	3	PRDisposal Fee	4	PRHOLD
5	TPH(DMO)_S	6		7		8	
9		10		11		12	

**Project Manager: Susan Thompson**

**Prepared by: Kena Ponce**

The following SampID: 002A contains testgroup Multi Range\_S.

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



### WORK ORDER SUMMARY

**Client Name:** ROUX ASSOCIATES, INC.

**Project:** 3347.0003S000; 285 12th Street

**Work Order:** 2003715

**Client Contact:** Taylor Barrett

**QC Level:** LEVEL 2

**Contact's Email:** tbarrett@rouxinc.com

**Comments:**

**Date Logged:** 3/12/2020

WaterTrax     WriteOn     EDF     Excel     EQUIS     Email     HardCopy     ThirdParty     J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2003715-002A	RB-1-10.0	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	<input type="checkbox"/>	3/12/2020 9:15	5 days			<input checked="" type="checkbox"/>
			Multi-Range TPH			<input type="checkbox"/>					5 days
2003715-003A	RB-3-S01-3.0-D	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	<input type="checkbox"/>	3/12/2020 13:40	5 days			<input type="checkbox"/>
2003715-004A	RB-3-S02-3.0-D	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	<input type="checkbox"/>	3/12/2020 13:45	5 days			<input checked="" type="checkbox"/>
2003715-005A	RB-3-S01-3.0-A	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	<input type="checkbox"/>	3/12/2020 14:10	5 days			<input type="checkbox"/>
2003715-006A	RB-3-S02-3.0-A	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	<input type="checkbox"/>	3/12/2020 14:25	5 days			<input checked="" type="checkbox"/>
2003715-007A	RB-3-S03-3.0-A	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	<input type="checkbox"/>	3/12/2020 14:30	5 days			<input checked="" type="checkbox"/>

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



### McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701

Telephone: (877) 252-9262 / Fax: (925) 252-9269

www.mccampbell.com

main@mccampbell.com

### CHAIN OF CUSTODY RECORD

Turn Around Time: 1 Day Rush	2 Day Rush	3 Day Rush	STD ●	Quote #
J-Flag / MDL	ESL	Cleanup Approved	Bottle Order #	
Delivery Format: PDF ●	GeoTracker EDF	EDD ●	Write On (DW)	EQuIS

Report To: Taylor Barrett, Amanda Broffman, Josh Graber Bill To: 3347.0003S000

Company: Roux Associates, Inc.

Email: tbarrett@rouxinc.com, abroffman@rouxinc.com, jgrabr@rouxinc.com

Alt Email: Tele: 415-967-6015

Project Name: 285 12th Street Project #:3347.0003S000

Project Location: 285 12th Street, Oakland, CA PO #

Sampler Signature: *Norm Beck*

#### Analysis Requested

SAMPLE ID Location / Field Point	Sampling		#Containers	Matrix	Preservative	Lead by EPA 602D TPH - g/d. by EPA 8015	Analysis Requested														HOLD						
	Date	Time																									
<del>RB-MW-8</del> RB-1-8.0	3-12-20	0920	1	Soil	None																					X	
<del>RB-MW-10</del> RB-1-10	3-12-20	0915	1				X																				X
RB-3-501-D-3.0		1340	1				X																				
RB-3-502-D-3.0		1345	1				X																				X
<del>RB-3-503-D</del>																											
RB-3-501-A-3.0		1410	1				X																				
RB-3-502-A-3.0		1425	1				X																				X
RB-3-503-A-3.0		1430	1				X																				X
<del>RB-3</del>																											
<del>RB-3</del>																											

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

\* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.

Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
<i>Norm Beck / Roux</i>	3/12/20	1435	<i>[Signature]</i>	3/12/20	1435
<i>UA</i>	3/12/20	1610	<i>[Signature]</i>	3/12/20	1610

Comments / Instructions

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other

Preservative Code: 1=4°C 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=ZnOAc/NaOH 7=None

Temp 33°C Initials



## Sample Receipt Checklist

Client Name: **Roux Associates, Inc.**  
 Project: **3347.0003S000; 285 12th Street**  
 WorkOrder No: **2003715** Matrix: Soil  
 Carrier: Lorenzo Perez (MAI Courier)

Date and Time Received: **3/12/2020 16:10**  
 Date Logged: **3/12/2020**  
 Received by: **Kena Ponce**  
 Logged by: **Kena Ponce**

### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
COC agrees with Quote?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE )

Sample/Temp Blank temperature	Temp: 3.3°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

#### UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

-----  
 Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 2003776

**Report Created for:** Roux Associates, Inc.

555 12th Street, Suite 250  
Oakland, CA 94607

**Project Contact:** Joshua Graber

**Project P.O.:**

**Project:** 3347.0003S000; 285 12th Street

**Project Received:** 03/13/2020

Analytical Report reviewed & approved for release on 03/19/2020 by:

Yen Cao

Project Manager

*The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.*





## Glossary of Terms & Qualifier Definitions

**Client:** Roux Associates, Inc.  
**Project:** 3347.0003S000; 285 12th Street  
**WorkOrder:** 2003776

### Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)





## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 03/13/2020 13:05  
**Date Prepared:** 03/13/2020  
**Project:** 3347.0003S000; 285 12th Street

**WorkOrder:** 2003776  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-S01-B	2003776-001A	Soil	03/12/2020 14:35	ICP-MS4 215SMPL.d	195679

Analytes	Result	RL	DF	Date Analyzed
Lead	2.4	0.50	1	03/16/2020 17:18

Surrogates	REC (%)	Limits
Terbium	108	70-130

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-3-S01-C	2003776-007A	Soil	03/12/2020 15:05	ICP-MS4 216SMPL.d	195679

Analytes	Result	RL	DF	Date Analyzed
Lead	2.4	0.50	1	03/16/2020 17:22

Surrogates	REC (%)	Limits
Terbium	114	70-130

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-S01-A-0.0	2003776-008A	Soil	03/13/2020 09:40	ICP-MS4 217SMPL.d	195679

Analytes	Result	RL	DF	Date Analyzed
Lead	110	0.50	1	03/16/2020 17:26

Surrogates	REC (%)	Limits
Terbium	122	70-130

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-S01-B-0	2003776-021A	Soil	03/13/2020 08:15	ICP-MS4 224SMPL.d	195679

Analytes	Result	RL	DF	Date Analyzed
Lead	49	0.50	1	03/16/2020 17:53

Surrogates	REC (%)	Limits
Terbium	112	70-130

Analyst(s): DB

(Cont.)



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 03/13/2020 13:05  
**Date Prepared:** 03/13/2020  
**Project:** 3347.0003S000; 285 12th Street

**WorkOrder:** 2003776  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-S01-C-0	2003776-024A	Soil	03/13/2020 08:50	ICP-MS4 225SMPL.d	195679

Analytes	Result	RL	DF	Date Analyzed
Lead	180	0.50	1	03/16/2020 17:57

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	110	70-130	03/16/2020 17:57

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-S01-D-0	2003776-027A	Soil	03/13/2020 09:15	ICP-MS4 226SMPL.d	195679

Analytes	Result	RL	DF	Date Analyzed
Lead	57	0.50	1	03/16/2020 18:01

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	123	70-130	03/16/2020 18:01

Analyst(s): DB



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 03/13/2020  
**Date Analyzed:** 03/16/2020  
**Instrument:** ICP-MS4  
**Matrix:** Soil  
**Project:** 3347.0003S000; 285 12th Street

**WorkOrder:** 2003776  
**BatchID:** 195679  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-195679

### QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Lead	ND	0.0940	0.500	-	-	-
<b>Surrogate Recovery</b>						
Terbium	510			500	102	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Lead	51.9	51.0	50	104	102	75-125	1.80	20
<b>Surrogate Recovery</b>								
Terbium	534	527	500	107	105	70-130	1.48	20



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 2003776

ClientCode: RASF

- WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQuIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag  
 Detection Summary   
  Dry-Weight

**Report to:**

Joshua Graber  
Roux Associates, Inc.  
555 12th Street, Suite 250  
Oakland, CA 94607  
(415) 967-6027    FAX: (415) 967-6001

Email: jgrab@rouxinc.com  
cc/3rd Party: abroffman@rouxinc.com; tbarrett@rouxinc.  
PO:  
Project: 3347.0003S000; 285 12th Street

**Bill to:**

Accounts Payable/Donna Andrusco  
Roux Associates, Inc.  
209 Shafter Street  
Islandia, NY 11749-5074  
Rouxap@rouxinc.com

**Requested TAT: 5 days;**

**Date Received: 03/13/2020**

**Date Logged: 03/13/2020**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2003776-001	RB-3-S01-B	Soil	3/12/2020 14:35	<input type="checkbox"/>	A	A										
2003776-002	RB-3-S02-B	Soil	3/12/2020 14:40	<input checked="" type="checkbox"/>		A	A									
2003776-003	RB-3-S03-D	Soil	3/12/2020 14:45	<input checked="" type="checkbox"/>		A	A									
2003776-004	RB-3-S03-B	Soil	3/12/2020 15:00	<input checked="" type="checkbox"/>		A	A									
2003776-005	RB-3-S03-C	Soil	3/12/2020 15:15	<input checked="" type="checkbox"/>		A	A									
2003776-006	RB-3-S02-C	Soil	3/12/2020 15:25	<input checked="" type="checkbox"/>		A	A									
2003776-007	RB-3-S01-C	Soil	3/12/2020 15:05	<input type="checkbox"/>	A	A										
2003776-008	RB-4-S01-A-0.0	Soil	3/13/2020 09:40	<input type="checkbox"/>	A	A										
2003776-009	RB-4-S02-A-0.0	Soil	3/13/2020 09:48	<input checked="" type="checkbox"/>		A	A									
2003776-010	RB-4-S03-A-0.0	Soil	3/13/2020 09:53	<input checked="" type="checkbox"/>		A	A									
2003776-011	RB-4-S02-A-3	Soil	3/13/2020 09:50	<input checked="" type="checkbox"/>		A	A									
2003776-012	RB-4-S03-A-3	Soil	3/13/2020 09:55	<input checked="" type="checkbox"/>		A	A									
2003776-013	RB-4-S01-B-3	Soil	3/13/2020 10:05	<input checked="" type="checkbox"/>	A	A	A									
2003776-014	RB-4-S02-B-3	Soil	3/13/2020 10:15	<input checked="" type="checkbox"/>		A	A									
2003776-015	RB-4-S03-B-3	Soil	3/13/2020 10:20	<input checked="" type="checkbox"/>		A	A									

**Test Legend:**

1	PBMS_TTLC_S	2	PRDisposal Fee	3	PRHOLD	4	
5		6		7		8	
9		10		11		12	

**Project Manager: Susan Thompson**

**Prepared by: Valerie Alfaro**

The following SamplID: 032A contains testgroup Multi Range\_S.

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 2003776

ClientCode: RASF

- WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQulS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag  
 Detection Summary   
  Dry-Weight

**Report to:**

Joshua Graber  
Roux Associates, Inc.  
555 12th Street, Suite 250  
Oakland, CA 94607  
(415) 967-6027    FAX: (415) 967-6001

Email: jgrabr@rouxinc.com  
cc/3rd Party: abroffman@rouxinc.com; tbarrett@rouxinc.  
PO:  
Project: 3347.0003S000; 285 12th Street

**Bill to:**

Accounts Payable/Donna Andrusco  
Roux Associates, Inc.  
209 Shafter Street  
Islandia, NY 11749-5074  
Rouxap@rouxinc.com

**Requested TAT: 5 days;**

**Date Received: 03/13/2020**

**Date Logged: 03/13/2020**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
2003776-016	RB-4-S01-C-3	Soil	3/13/2020 10:30	<input checked="" type="checkbox"/>	A	A	A										
2003776-017	RB-4-S02-C-3	Soil	3/13/2020 10:45	<input checked="" type="checkbox"/>		A	A										
2003776-018	RB-4-S03-C-3	Soil	3/13/2020 10:55	<input checked="" type="checkbox"/>		A	A										
2003776-019	RB-4-S01-D-3	Soil	3/13/2020 11:05	<input checked="" type="checkbox"/>	A	A	A										
2003776-020	RB-4-S02-D-3	Soil	3/13/2020 11:10	<input checked="" type="checkbox"/>		A	A										
2003776-021	RB-4-S01-B-0	Soil	3/13/2020 08:15	<input type="checkbox"/>	A	A											
2003776-022	RB-4-S02-B-0	Soil	3/13/2020 08:25	<input checked="" type="checkbox"/>		A	A										
2003776-023	RB-4-S03-B-0	Soil	3/13/2020 08:35	<input checked="" type="checkbox"/>		A	A										
2003776-024	RB-4-S01-C-0	Soil	3/13/2020 08:50	<input type="checkbox"/>	A	A											
2003776-025	RB-4-S02-C-0	Soil	3/13/2020 08:55	<input checked="" type="checkbox"/>		A	A										
2003776-026	RB-4-S03-C-0	Soil	3/13/2020 09:00	<input checked="" type="checkbox"/>		A	A										
2003776-027	RB-4-S01-D-0	Soil	3/13/2020 09:15	<input type="checkbox"/>	A	A											
2003776-028	RB-4-S02-D-0	Soil	3/13/2020 09:10	<input checked="" type="checkbox"/>		A	A										
2003776-029	RB-4-S03-D-0	Soil	3/13/2020 09:05	<input checked="" type="checkbox"/>		A	A										
2003776-030	RB-4-S01-A-3	Soil	3/13/2020 09:45	<input checked="" type="checkbox"/>	A	A	A										

**Test Legend:**

1	PBMS_TTLC_S	2	PRDisposal Fee	3	PRHOLD	4	
5		6		7		8	
9		10		11		12	

**Project Manager: Susan Thompson**

**Prepared by: Valerie Alfaro**

The following SamplID: 032A contains testgroup Multi Range\_S.

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.

1534 Willow Pass Rd  
 Pittsburg, CA 94565-1701  
 (925) 252-9262



# CHAIN-OF-CUSTODY RECORD

WorkOrder: 2003776

ClientCode: RASF

- WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQuIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag  
 Detection Summary   
  Dry-Weight

**Report to:**

Joshua Graber  
 Roux Associates, Inc.  
 555 12th Street, Suite 250  
 Oakland, CA 94607  
 (415) 967-6027    FAX: (415) 967-6001

Email: jgrabr@rouxinc.com  
 cc/3rd Party: abroffman@rouxinc.com; tbarrett@rouxinc.  
 PO:  
 Project: 3347.0003S000; 285 12th Street

**Bill to:**

Accounts Payable/Donna Andrusco  
 Roux Associates, Inc.  
 209 Shafter Street  
 Islandia, NY 11749-5074  
 Rouxap@rouxinc.com

**Requested TAT: 5 days;**

**Date Received: 03/13/2020**

**Date Logged: 03/13/2020**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
2003776-031	RB-4-S03-D-3	Soil	3/13/2020 11:15	<input checked="" type="checkbox"/>		A	A										
2003776-032	IDW- comp	Soil	3/12/2020 11:00	<input type="checkbox"/>		A											

**Test Legend:**

1	PBMS_TTLC_S	2	PRDisposal Fee	3	PRHOLD	4	
5		6		7		8	
9		10		11		12	

**Project Manager: Susan Thompson**

**Prepared by: Valerie Alfaro**

The following SampID: 032A contains testgroup Multi Range\_S.

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
 Hazardous samples will be returned to client or disposed of at client expense.



### WORK ORDER SUMMARY

**Client Name:** ROUX ASSOCIATES, INC.

**Project:** 3347.0003S000; 285 12th Street

**Work Order:** 2003776

**Client Contact:** Joshua Graber

**QC Level:** LEVEL 2

**Contact's Email:** jgraber@rouxinc.com

**Comments:**

**Date Logged:** 3/13/2020

WaterTrax     WriteOn     EDF     Excel     EQUIS     Email     HardCopy     ThirdParty     J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2003776-001A	RB-3-S01-B	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	<input type="checkbox"/>	3/12/2020 14:35	5 days		<input type="checkbox"/>	
2003776-007A	RB-3-S01-C	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	<input type="checkbox"/>	3/12/2020 15:05	5 days		<input type="checkbox"/>	
2003776-008A	RB-4-S01-A-0.0	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	<input type="checkbox"/>	3/13/2020 9:40	5 days		<input type="checkbox"/>	
2003776-013A	RB-4-S01-B-3	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	<input type="checkbox"/>	3/13/2020 10:05	5 days		<input checked="" type="checkbox"/>	
2003776-016A	RB-4-S01-C-3	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	<input type="checkbox"/>	3/13/2020 10:30	5 days		<input checked="" type="checkbox"/>	
2003776-019A	RB-4-S01-D-3	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	<input type="checkbox"/>	3/13/2020 11:05	5 days		<input checked="" type="checkbox"/>	
2003776-021A	RB-4-S01-B-0	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	<input type="checkbox"/>	3/13/2020 8:15	5 days		<input type="checkbox"/>	
2003776-024A	RB-4-S01-C-0	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	<input type="checkbox"/>	3/13/2020 8:50	5 days		<input type="checkbox"/>	
2003776-027A	RB-4-S01-D-0	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	<input type="checkbox"/>	3/13/2020 9:15	5 days		<input type="checkbox"/>	
2003776-030A	RB-4-S01-A-3	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	<input type="checkbox"/>	3/13/2020 9:45	5 days		<input checked="" type="checkbox"/>	

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.













**McCAMPBELL ANALYTICAL, INC.**  
 1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701  
 Telephone: (877) 252-9262 / Fax: (925) 252-9269  
 www.mccampbell.com      main@mccampbell.com

CHAIN OF CUSTODY RECORD										
Turn Around Time: 1 Day Rush	2 Day Rush	3 Day Rush	STD	<input checked="" type="checkbox"/>	Quote #					
J-Flag / MDL	ESL	Cleanup Approved	Dry Weight	Bottle Order #						
Delivery Format: PDF	<input checked="" type="checkbox"/>	GeoTracker EDF	EDD	<input checked="" type="checkbox"/>	Write On (DW)				Detect Summary	

Report To: Taylor Barrett, Amanda Broffman Bill To: 3347.00035000  
 Company: Roux Associates, Inc. Josh Graber  
 Address: tbarrett@rouxinc.com, abroffman@rouxinc.com  
 Email: jgraber@rouxinc.com Tele: 415-967-6015  
 Project Name: 285 12th Street Project #: 3347.00035000  
 Project Location: 285 12th Street, Oakland CA PO #  
 Sampler Signature: Amanda Broffman

Analysis Requested																	
Multi Range as Gas, Diesel, and Motor Oil (8021/8015)	BTEX & TPH as Gas (8021/8015) MTBE	TPH as Diesel (8015) + Motor Oil Without Silica Gel	TPH as Diesel (8015) + Motor Oil With Silica Gel	Total Oil & Grease (1664 / 9071) Without Silica Gel	Total Petroleum Hydrocarbons - Oil & Grease (1664 / 9071) With Silica Gel	Total Petroleum Hydrocarbons (418.1) With Silica Gel	EPA 505/608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's; Aroclors only	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)*	Metals (200.8 / 6020)*	Baylands Requirements	Lab to filter sample for dissolved metals analysis	<u>X HOLD</u>	
<u>RB-4-503-D-3</u>	<u>3-13-20</u>	<u>1115</u>	<u>1</u>	<u>Soil</u>	<u>None</u>												

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.						Comments / Instructions			
Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.									
Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time				
<u>Amanda Broffman</u>	<u>3/13/20</u>	<u>1220</u>	<u>Nolan O'Connell</u>	<u>3/13/20</u>	<u>1220</u>				
<u>LAP</u>	<u>3/13/20</u>	<u>1308</u>		<u>3/13/20</u>	<u>1305</u>				

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other  
 Preservative Code: 1=4°C 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=ZnOAc/NaOH 7=None  
 Temp 4.5 °C Initials VA  
wet



### Sample Receipt Checklist

Client Name: **Roux Associates, Inc.**  
Project: **3347.0003S000; 285 12th Street**  
  
WorkOrder No: **2003776** Matrix: Soil  
Carrier: Lorenzo Perez (MAI Courier)

Date and Time Received: **3/13/2020 13:05**  
Date Logged: **3/13/2020**  
Received by: Valerie Alfaro  
Logged by: Valerie Alfaro

#### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
COC agrees with Quote?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	NA <input type="checkbox"/>

#### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE )

Sample/Temp Blank temperature	Temp: 4.5°C	NA <input type="checkbox"/>	
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

#### UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 2003776 B

**Report Created for:** Roux Associates, Inc.

555 12th Street, Suite 250  
Oakland, CA 94607

**Project Contact:** Joshua Graber

**Project P.O.:**

**Project:** 3347.0003S000; 285 12th Street

**Project Received:** 03/13/2020

Analytical Report reviewed & approved for release on 03/25/2020 by:

Yen Cao  
Project Manager

*The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.*





## Glossary of Terms & Qualifier Definitions

**Client:** Roux Associates, Inc.  
**Project:** 3347.0003S000; 285 12th Street  
**WorkOrder:** 2003776 B

### Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



## **Glossary of Terms & Qualifier Definitions**

**Client:** Roux Associates, Inc.  
**Project:** 3347.0003S000; 285 12th Street  
**WorkOrder:** 2003776 B

### **Quality Control Qualifiers**

F10 MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix.



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 03/13/2020 13:05  
**Date Prepared:** 03/20/2020  
**Project:** 3347.0003S000; 285 12th Street

**WorkOrder:** 2003776  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-S02-A-0.0	2003776-009A	Soil	03/13/2020 09:48	ICP-MS4 193SMPL.d	195950

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	<b>150</b>	0.50	1	03/20/2020 16:47

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>
Terbium	104	70-130

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-S02-C-0.0	2003776-025A	Soil	03/13/2020 08:55	ICP-MS4 237SMPL.d	195950

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	<b>14</b>	0.50	1	03/20/2020 19:37

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>
Terbium	94	70-130

Analyst(s): ND





## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 03/20/2020  
**Date Analyzed:** 03/20/2020  
**Instrument:** ICP-MS2, ICP-MS4  
**Matrix:** Soil  
**Project:** 3347.0003S000; 285 12th Street

**WorkOrder:** 2003776  
**BatchID:** 195950  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-195950  
 2003776-009AMS/MSD

### QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Lead	ND	0.0940	0.500	-	-	-
<b>Surrogate Recovery</b>						
Terbium	453			500	91	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Lead	49.3	48.7	50	99	97	75-125	1.20	20
<b>Surrogate Recovery</b>								
Terbium	512	514	500	102	103	70-130	0.449	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	1	247	312	50	148.0	199,F10	329,F10	75-125	23.3,F10	20
<b>Surrogate Recovery</b>										
Terbium	1	514	492	500		103	98	70-130	4.44	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Lead	138	148.0	6.76	20

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 2003776 **B** ClientCode: RASF

- WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQuIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag  
 Detection Summary   
  Dry-Weight

**Report to:**

Joshua Graber  
Roux Associates, Inc.  
555 12th Street, Suite 250  
Oakland, CA 94607  
(415) 967-6027    FAX: (415) 967-6001

Email: jgrabr@rouxinc.com  
cc/3rd Party: abroffman@rouxinc.com; tbarrett@rouxinc.  
PO:  
Project: 3347.0003S000; 285 12th Street

**Bill to:**

Accounts Payable/Donna Andrusco  
Roux Associates, Inc.  
209 Shafter Street  
Islandia, NY 11749-5074  
Rouxap@rouxinc.com

**Requested TAT: 5 days;**

**Date Received: 03/13/2020**

**Date Logged: 03/13/2020**

**Date Add-On: 03/19/2020**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
2003776-009	RB-4-S02-A-0.0	Soil	3/13/2020 09:48	<input type="checkbox"/>	A												
2003776-025	RB-4-S02-C-0	Soil	3/13/2020 08:55	<input type="checkbox"/>	A												

**Test Legend:**

1	PBMS_TTLC_S	2		3		4	
5		6		7		8	
9		10		11		12	

**Project Manager: Susan Thompson**

**Prepared by: Valerie Alfaro**

**Add-On Prepared By: Nancy Palacios**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



### WORK ORDER SUMMARY

**Client Name:** ROUX ASSOCIATES, INC.

**Project:** 3347.0003S000; 285 12th Street

**Work Order:** 2003776

**Client Contact:** Joshua Graber

**QC Level:** LEVEL 2

**Contact's Email:** jgraber@rouxinc.com

**Comments:**

**Date Logged:** 3/13/2020

**Date Add-On:** 3/19/2020

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2003776-009A	RB-4-S02-A-0.0	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	3/13/2020 9:48	5 days		<input type="checkbox"/>	
2003776-025A	RB-4-S02-C-0	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	3/13/2020 8:55	5 days		<input type="checkbox"/>	

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.












 <b>McCAMPBELL ANALYTICAL, INC.</b> 1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701 Telephone: (877) 252-9262 / Fax: (925) 252-9269 www.mccampbell.com      main@mccampbell.com						CHAIN OF CUSTODY RECORD																
Report To: <u>Taylor Barrett, Amanda Broffman</u> Bill To: <u>3347.00035000</u>						Analysis Requested																
Company: <u>Roux Associates, Inc. Josh Graber</u>						<div style="display: flex; justify-content: space-between; font-size: small;"> <div style="width: 30%;"> <p>Multi Range as Gas, Diesel, and Motor Oil (8021/8015)</p> <p>BTEX &amp; TPH as Gas (8021/8015) MTBE</p> <p>TPH as Diesel (8015) + Motor Oil Without Silica Gel</p> <p>TPH as Diesel (8015) + Motor Oil With Silica Gel</p> <p>Total Oil &amp; Grease (1664 / 9071) Without Silica Gel</p> <p>Total Petroleum Hydrocarbons - Oil &amp; Grease (1664 / 9071) With Silica Gel</p> <p>Total Petroleum Hydrocarbons (418.1) With Silica Gel</p> <p>EPA 505/608 / 8081 (CI Pesticides)</p> <p>EPA 608 / 8082 PCB's ; Aroclors only</p> <p>EPA 524.2 / 624 / 8260 (VOCs)</p> <p>EPA 525.2 / 625 / 8270 (SVOCs)</p> <p>EPA 8270 SIM / 8310 (PAHs / PNAs)</p> <p>CAM 17 Metals (200.8 / 6020)*</p> <p>Metals (200.8 / 6020)*</p> <p>Baylands Requirements</p> <p>Lab to filter sample for dissolved metals analysis</p> </div> <div style="width: 40%; text-align: center;"> <p><b>Turn Around Time:</b> 1 Day Rush <input type="checkbox"/> 2 Day Rush <input type="checkbox"/> 3 Day Rush <input type="checkbox"/> STD <input checked="" type="checkbox"/> Quote # _____</p> <p><b>J-Flag / MDL:</b> _____ ESL _____ Cleanup Approved <input type="checkbox"/> Dry Weight <input type="checkbox"/> Bottle Order # _____</p> <p><b>Delivery Format:</b> PDF <input checked="" type="checkbox"/> GeoTracker EDF <input type="checkbox"/> EDD <input checked="" type="checkbox"/> Write On (DW) <input type="checkbox"/> Detect Summary <input type="checkbox"/></p> </div> <div style="width: 30%; text-align: center;"> <p style="font-size: 2em; font-weight: bold; color: green;">X HOLD</p> </div> </div>																
Address: <u>tbarrette@rouxinc.com, abroffman@rouxinc.com</u>																						
Email: <u>jgraber@rouxinc.com</u> Tele: <u>415-967-6015</u>																						
Project Name: <u>285 12<sup>th</sup> Street</u> Project #: <u>3347.00035000</u>																						
Project Location: <u>285 12<sup>th</sup> Street, Oakland CA</u> PO # _____																						
Sampler Signature: <u>Amanda Broff</u>																						
SAMPLE ID Location / Field Point	Sampling		#Containers	Matrix	Preservative																	
	Date	Time																				
<u>RB-4-503-D-3</u>	<u>3-13-20</u>	<u>1115</u>	<u>1</u>	<u>Soil</u>	<u>None</u>																	

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

\* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.

Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time	Comments / Instructions
<u>Amanda Broff</u>	<u>3/13/20</u>	<u>1220</u>	<u>Natasha</u>	<u>3/10/20</u>	<u>1220</u>	
<u>LAP</u>	<u>3/18/20</u>	<u>1305</u>	<u>Natasha</u>	<u>3/13/20</u>	<u>1305</u>	

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other  
 Preservative Code: 1=4°C   2=HCl   3=H<sub>2</sub>SO<sub>4</sub>   4=HNO<sub>3</sub>   5=NaOH   6=ZnOAc/NaOH   7=None

Temp 4.5 °C wet      Initials VA



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 2003776 C

**Report Created for:** Roux Associates, Inc.

555 12th Street, Suite 250  
Oakland, CA 94607

**Project Contact:** Joshua Graber

**Project P.O.:**

**Project:** 3347.0003S000; 285 12th Street

**Project Received:** 03/13/2020

Analytical Report reviewed & approved for release on 03/30/2020 by:

Yen Cao

Project Manager

*The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.*







## Glossary of Terms & Qualifier Definitions

**Client:** Roux Associates, Inc.  
**Project:** 3347.0003S000; 285 12th Street  
**WorkOrder:** 2003776 C

### Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 03/13/2020 13:05  
**Date Prepared:** 03/26/2020  
**Project:** 3347.0003S000; 285 12th Street

**WorkOrder:** 2003776  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RB-4-S03-A-0.0	2003776-010A	Soil	03/13/2020 09:53	ICP-MS3 046SMPL.D	196176

Analytes	Result	RL	DF	Date Analyzed
Lead	38	0.50	1	03/27/2020 17:16

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	97	70-130	03/27/2020 17:16

**Analyst(s):** DB



## Quality Control Report

<b>Client:</b> Roux Associates, Inc.	<b>WorkOrder:</b> 2003776
<b>Date Prepared:</b> 03/25/2020 - 03/26/2020	<b>BatchID:</b> 196176
<b>Date Analyzed:</b> 03/26/2020	<b>Extraction Method:</b> SW3050B
<b>Instrument:</b> ICP-MS4	<b>Analytical Method:</b> SW6020
<b>Matrix:</b> Soil	<b>Unit:</b> mg/kg
<b>Project:</b> 3347.0003S000; 285 12th Street	<b>Sample ID:</b> MB/LCS/LCSD-196176

### QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Lead	ND	0.0940	0.500	-	-	-
<b>Surrogate Recovery</b>						
Terbium	524			500	105	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Lead	51.0	50.6	50	102	101	75-125	0.736	20
<b>Surrogate Recovery</b>								
Terbium	518	513	500	104	103	70-130	0.905	20



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 2003776 **C** ClientCode: RASF

- WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQulS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag  
 Detection Summary   
  Dry-Weight

**Report to:**

Joshua Graber  
Roux Associates, Inc.  
555 12th Street, Suite 250  
Oakland, CA 94607  
(415) 967-6027    FAX: (415) 967-6001

Email: jgrabr@rouxinc.com  
cc/3rd Party: abroffman@rouxinc.com; tbarrett@rouxinc.  
PO:  
Project: 3347.0003S000; 285 12th Street

**Bill to:**

Accounts Payable/Donna Andrusco  
Roux Associates, Inc.  
209 Shafter Street  
Islandia, NY 11749-5074  
Rouxap@rouxinc.com

**Requested TAT: 5 days;**

**Date Received: 03/13/2020**

**Date Logged: 03/13/2020**

**Date Add-On: 03/25/2020**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
2003776-010	RB-4-S03-A-0.0	Soil	3/13/2020 09:53	<input type="checkbox"/>	A	A											

**Test Legend:**

1	PBMS_TTLC_S	2	PRHOLD Credit	3		4	
5		6		7		8	
9		10		11		12	

**Project Manager: Susan Thompson**

**Prepared by: Valerie Alfaro**

**Add-On Prepared By: Maria Venegas**

**Comments:**    Sample 010 taken off HOLD for Lead 3/25/20 STAT.

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



### WORK ORDER SUMMARY

**Client Name:** ROUX ASSOCIATES, INC.

**Project:** 3347.0003S000; 285 12th Street

**Work Order:** 2003776

**Client Contact:** Joshua Graber

**QC Level:** LEVEL 2

**Contact's Email:** jgraber@rouxinc.com

**Comments:** Sample 010 taken off HOLD for Lead 3/25/20 STAT.

**Date Logged:** 3/13/2020

**Date Add-On:** 3/25/2020

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2003776-010A	RB-4-S03-A-0.0	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	3/13/2020 9:53	5 days		<input type="checkbox"/>	

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.





# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 2003776 D

**Report Created for:** Roux Associates, Inc.

555 12th Street, Suite 250  
Oakland, CA 94607

**Project Contact:** Joshua Graber

**Project P.O.:**

**Project:** 3347.0003S000; 285 12th Street

**Project Received:** 03/13/2020

Analytical Report reviewed & approved for release on 04/01/2020 by:

Christine Askari  
Project Manager

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## Glossary of Terms & Qualifier Definitions

**Client:** Roux Associates, Inc.  
**Project:** 3347.0003S000; 285 12th Street  
**WorkOrder:** 2003776 D

### Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)





# Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 03/13/2020 13:05  
**Date Prepared:** 03/28/2020  
**Project:** 3347.0003S000; 285 12th Street

**WorkOrder:** 2003776  
**Extraction Method:** CA Title 22  
**Analytical Method:** SW6020  
**Unit:** mg/L

## Metals (STLC)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
IDW- comp	2003776-032A	Soil	03/12/2020 11:00	ICP-MS3 098SMPL.D	196280

Analytes	Result	RL	DF	Date Analyzed
Chromium	0.19	0.10	1	03/30/2020 21:25

Analyst(s): ND



# Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 03/13/2020 13:05  
**Date Prepared:** 03/29/2020  
**Project:** 3347.0003S000; 285 12th Street

**WorkOrder:** 2003776  
**Extraction Method:** SW1311/SW3010  
**Analytical Method:** SW6020  
**Unit:** mg/L

## Metals (TCLP)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
IDW- comp	2003776-032A	Soil	03/12/2020 11:00	ICP-MS4 417SMPL.d	196285

Analytes	Result	RL	DF	Date Analyzed
Chromium	ND	0.10	1	03/31/2020 16:27

Analyst(s): DB



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 03/28/2020  
**Date Analyzed:** 03/30/2020  
**Instrument:** ICP-MS3  
**Matrix:** Soil  
**Project:** 3347.0003S000; 285 12th Street

**WorkOrder:** 2003776  
**BatchID:** 196280  
**Extraction Method:** CA Title 22  
**Analytical Method:** SW6020  
**Unit:** mg/L  
**Sample ID:** MB/LCS/LCSD-196280

### QC Summary Report for Metals (STLC)

Analyte	MB Result	MDL	RL			
Chromium	ND	0.100	0.100	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Chromium	9.87	11.0	10	99	110	75-125	10.3	20



## Quality Control Report

<b>Client:</b> Roux Associates, Inc.	<b>WorkOrder:</b> 2003776
<b>Date Prepared:</b> 03/29/2020	<b>BatchID:</b> 196285
<b>Date Analyzed:</b> 03/31/2020	<b>Extraction Method:</b> SW1311/SW3010
<b>Instrument:</b> ICP-MS3	<b>Analytical Method:</b> SW6020
<b>Matrix:</b> Soil	<b>Unit:</b> mg/L
<b>Project:</b> 3347.0003S000; 285 12th Street	<b>Sample ID:</b> MB/LCS/LCSD-196285

### QC Summary Report for Metals (TCLP)

Analyte	MB Result	MDL	RL			
Chromium	ND	0.100	0.100	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Chromium	9.23	10.1	10	92	101	75-125	8.56	20



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 2003776 **D** ClientCode: RASF

- WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQulS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag  
 Detection Summary   
  Dry-Weight

**Report to:**

Joshua Graber  
Roux Associates, Inc.  
555 12th Street, Suite 250  
Oakland, CA 94607  
(415) 967-6027    FAX: (415) 967-6001

Email: jgrabr@rouxinc.com  
cc/3rd Party: abroffman@rouxinc.com; tbarrett@rouxinc.  
PO:  
Project: 3347.0003S000; 285 12th Street

**Bill to:**

Accounts Payable/Donna Andrusco  
Roux Associates, Inc.  
209 Shafter Street  
Islandia, NY 11749-5074  
Rouxap@rouxinc.com

**Requested TAT: 5 days;**

**Date Received: 03/13/2020**

**Date Logged: 03/13/2020**

**Date Add-On: 03/26/2020**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
2003776-032	IDW- comp	Soil	3/12/2020 11:00	<input type="checkbox"/>	A	A											

**Test Legend:**

1	CRMS_STLC_S	2	CRMS_TCLP_S	3		4	
5		6		7		8	
9		10		11		12	

**Project Manager: Susan Thompson**

**Prepared by: Valerie Alfaro**

**Add-On Prepared By: Maria Venegas**

**Comments:** Sample 010 taken off HOLD for Lead 3/25/20 STAT. STLC & TCLP Cr added to IDW-Comp 3/25/20 STAT.

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



### WORK ORDER SUMMARY

**Client Name:** ROUX ASSOCIATES, INC.

**Project:** 3347.0003S000; 285 12th Street

**Work Order:** 2003776

**Client Contact:** Joshua Graber

**QC Level:** LEVEL 2

**Contact's Email:** jgraber@rouxinc.com

**Comments:** Sample 010 taken off HOLD for Lead 3/25/20 STAT. STLC & TCLP Cr added to IDW-Comp 3/25/20 STAT.

**Date Logged:** 3/13/2020

**Date Add-On:** 3/26/2020

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2003776-032A	IDW- comp	Soil	SW6020 (Chromium) (TCLP)	4 / (4:1)	8OZ GJ, Unpres	3/12/2020 11:00	5 days*		<input type="checkbox"/>	
			SW6020 (Chromium) (STLC)				5 days*			

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

**McCAMPBELL ANALYTICAL, INC.**  
 1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701  
 Telephone: (877) 252-9262 / Fax: (925) 252-9269  
 www.mccampbell.com main@mccampbell.com

Turn Around Time: 1 Day Rush				2 Day Rush	3 Day Rush	STD	X	Quote #
J-Flag / MDL	ESL	Cleanup Approved		Dry Weight	Bottle Order #			
Delivery Format: PDF	X	GeoTracker EDF	EDD	X	Write On (DW)	Detect Summary		

Report To: Taylor Barrett, Amanda Broffman Bill To: 3347.00035000  
 Company: Roux Associates, Inc. Josh Graber  
 Address: Abroffman@rouxinc.com, jgraber@rouxinc.com  
 Email: tbarrett@rouxinc.com, jgraber@rouxinc.com 415-967-6015  
 Project Name: 285 12th Street Project #: 3347.00035000  
 Project Location: 285 12th Street, Oakland CA PO #  
 Sampler Signature: Amanda Broffman

**Analysis Requested**

SAMPLE ID Location / Field Point	Sampling		#Containers	Matrix	Preservative
	Date	Time			
IDW-Comp-1A	3-12-20	1030	1	Soil	None
IDW-Comp-1B	3-12-20	1040	1	I	I
IDW-Comp-1C	3-13-20	1120	1	I	I
IDW-Comp-1D	3-12-20	1100	1	I	I
IDW-Comp					

Multi Range as Gas, Diesel, and Motor Oil (8021/8015)	BTEX & TPH as Gas (8021/8015) MTBE	TPH as Diesel (8015) + Motor Oil Without Silica Gel	TPH as Diesel (8015) + Motor Oil With Silica Gel	Total Oil & Grease (1664 / 9071) Without Silica Gel	Total Petroleum Hydrocarbons - Oil & Grease (1664 / 9071) With Silica Gel	Total Petroleum Hydrocarbons (418.1) With Silica Gel	EPA 505 / 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's: Aroclors only	EPA 524.2 / 624.2 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)*	Metals (200.8 / 6020) <b>STAT + TAPC</b>	Baylands Requirements	Lab to filter sample for dissolved metals analysis	CAM 17 metals 6010/7000	TPH-g by 8260	TPH-d/mo by 8270
									X		X	X	X			X	X	X

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

\* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.

Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
<u>Amanda Broffman</u>	3-13-20	1220	<u>Nathan CAP</u>	3/13/20	1220
<u>MAP</u>	3/13/20	1305	<u>Nathan CAP</u>	3/13/20	1305

Comments / Instructions  
**Added 3/25/2020**  
**STAT**

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other  
 Preservative Code: 1=4°C 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=ZnOAc/NaOH 7=None  
 Temp 4.5 °C wet Initials VA



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 2004124 **Amended:** 04/09/2020

**Revision:** 1

**Report Created for:** Roux Associates, Inc.

555 12th Street, Suite 250  
Oakland, CA 94607

**Project Contact:** Taylor Barrett

**Project P.O.:**

**Project:** 3374.0003S000; 285 12th St.

**Project Received:** 04/03/2020

Analytical Report reviewed & approved for release on 04/08/2020 by:

Christine Askari  
Project Manager

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## Glossary of Terms & Qualifier Definitions

**Client:** Roux Associates, Inc.  
**Project:** 3374.0003S000; 285 12th St.  
**WorkOrder:** 2004124

### Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



## **Glossary of Terms & Qualifier Definitions**

**Client:** Roux Associates, Inc.  
**Project:** 3374.0003S000; 285 12th St.  
**WorkOrder:** 2004124

### **Quality Control Qualifiers**

F2 LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 04/03/2020 11:40  
**Date Prepared:** 04/06/2020  
**Project:** 3374.0003S000; 285 12th St.

**WorkOrder:** 2004124  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
RBMW-1	2004124-001A	Water	04/03/2020 10:43		GC38 04062016.D	196684
Analytes	Result	RL	DF	Date Analyzed		
Acetone	ND	40	1	04/06/2020 15:27		
tert-Amyl methyl ether (TAME)	ND	0.50	1	04/06/2020 15:27		
Benzene	ND	0.50	1	04/06/2020 15:27		
Bromobenzene	ND	0.50	1	04/06/2020 15:27		
Bromochloromethane	ND	0.50	1	04/06/2020 15:27		
Bromodichloromethane	ND	0.50	1	04/06/2020 15:27		
Bromoform	ND	0.50	1	04/06/2020 15:27		
Bromomethane	ND	0.50	1	04/06/2020 15:27		
2-Butanone (MEK)	ND	5.0	1	04/06/2020 15:27		
t-Butyl alcohol (TBA)	ND	5.0	1	04/06/2020 15:27		
n-Butyl benzene	ND	0.50	1	04/06/2020 15:27		
sec-Butyl benzene	ND	0.50	1	04/06/2020 15:27		
tert-Butyl benzene	ND	0.50	1	04/06/2020 15:27		
Carbon Disulfide	ND	0.50	1	04/06/2020 15:27		
Carbon Tetrachloride	ND	0.50	1	04/06/2020 15:27		
Chlorobenzene	ND	0.50	1	04/06/2020 15:27		
Chloroethane	ND	0.50	1	04/06/2020 15:27		
Chloroform	ND	0.50	1	04/06/2020 15:27		
Chloromethane	ND	0.50	1	04/06/2020 15:27		
2-Chlorotoluene	ND	0.50	1	04/06/2020 15:27		
4-Chlorotoluene	ND	0.50	1	04/06/2020 15:27		
Dibromochloromethane	ND	0.50	1	04/06/2020 15:27		
1,2-Dibromo-3-chloropropane	ND	0.20	1	04/06/2020 15:27		
1,2-Dibromoethane (EDB)	ND	0.50	1	04/06/2020 15:27		
Dibromomethane	ND	0.50	1	04/06/2020 15:27		
1,2-Dichlorobenzene	ND	0.50	1	04/06/2020 15:27		
1,3-Dichlorobenzene	ND	0.50	1	04/06/2020 15:27		
1,4-Dichlorobenzene	ND	0.50	1	04/06/2020 15:27		
Dichlorodifluoromethane	ND	0.50	1	04/06/2020 15:27		
1,1-Dichloroethane	ND	0.50	1	04/06/2020 15:27		
1,2-Dichloroethane (1,2-DCA)	4.6	0.50	1	04/06/2020 15:27		
1,1-Dichloroethene	ND	0.50	1	04/06/2020 15:27		
cis-1,2-Dichloroethene	ND	0.50	1	04/06/2020 15:27		
trans-1,2-Dichloroethene	ND	0.50	1	04/06/2020 15:27		
1,2-Dichloropropane	ND	0.50	1	04/06/2020 15:27		
1,3-Dichloropropane	ND	0.50	1	04/06/2020 15:27		
2,2-Dichloropropane	ND	0.50	1	04/06/2020 15:27		

(Cont.)



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 04/03/2020 11:40  
**Date Prepared:** 04/06/2020  
**Project:** 3374.0003S000; 285 12th St.

**WorkOrder:** 2004124  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RBMW-1	2004124-001A	Water	04/03/2020 10:43	GC38 04062016.D	196684

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	04/06/2020 15:27
cis-1,3-Dichloropropene	ND	0.50	1	04/06/2020 15:27
trans-1,3-Dichloropropene	ND	0.50	1	04/06/2020 15:27
Diisopropyl ether (DIPE)	ND	0.50	1	04/06/2020 15:27
Ethylbenzene	ND	0.50	1	04/06/2020 15:27
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	04/06/2020 15:27
Freon 113	ND	0.50	1	04/06/2020 15:27
Hexachlorobutadiene	ND	0.50	1	04/06/2020 15:27
Hexachloroethane	ND	0.50	1	04/06/2020 15:27
2-Hexanone	ND	1.0	1	04/06/2020 15:27
Isopropylbenzene	ND	0.50	1	04/06/2020 15:27
4-Isopropyl toluene	ND	0.50	1	04/06/2020 15:27
Methyl-t-butyl ether (MTBE)	ND	0.50	1	04/06/2020 15:27
Methylene chloride	ND	2.0	1	04/06/2020 15:27
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	04/06/2020 15:27
Naphthalene	ND	1.0	1	04/06/2020 15:27
n-Propyl benzene	ND	0.50	1	04/06/2020 15:27
Styrene	ND	2.0	1	04/06/2020 15:27
1,1,1,2-Tetrachloroethane	ND	0.50	1	04/06/2020 15:27
1,1,2,2-Tetrachloroethane	ND	0.50	1	04/06/2020 15:27
Tetrachloroethene	ND	0.50	1	04/06/2020 15:27
Toluene	ND	0.50	1	04/06/2020 15:27
1,2,3-Trichlorobenzene	ND	0.50	1	04/06/2020 15:27
1,2,4-Trichlorobenzene	ND	0.50	1	04/06/2020 15:27
1,1,1-Trichloroethane	ND	0.50	1	04/06/2020 15:27
1,1,2-Trichloroethane	ND	0.50	1	04/06/2020 15:27
Trichloroethene	ND	0.50	1	04/06/2020 15:27
Trichlorofluoromethane	ND	0.50	1	04/06/2020 15:27
1,2,3-Trichloropropane	ND	0.50	1	04/06/2020 15:27
1,2,4-Trimethylbenzene	ND	0.50	1	04/06/2020 15:27
1,3,5-Trimethylbenzene	ND	0.50	1	04/06/2020 15:27
Vinyl Chloride	ND	0.50	1	04/06/2020 15:27
m,p-Xylene	ND	0.50	1	04/06/2020 15:27
o-Xylene	ND	0.50	1	04/06/2020 15:27
Xylenes, Total	ND	0.50	1	04/06/2020 15:27

(Cont.)



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 04/03/2020 11:40  
**Date Prepared:** 04/06/2020  
**Project:** 3374.0003S000; 285 12th St.

**WorkOrder:** 2004124  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RBMW-1	2004124-001A	Water	04/03/2020 10:43	GC38 04062016.D	196684

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	
Dibromofluoromethane	94		78-112	04/06/2020 15:27
Toluene-d8	95		82-109	04/06/2020 15:27
4-BFB	88		63-121	04/06/2020 15:27

**Analyst(s):** AK



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 04/03/2020 11:40  
**Date Prepared:** 04/06/2020  
**Project:** 3374.0003S000; 285 12th St.

**WorkOrder:** 2004124  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### TPH(g)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RBMW-1	2004124-001A	Water	04/03/2020 10:43	GC38 04062016.D	196684

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	04/06/2020 15:27

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	102	78-112	04/06/2020 15:27

**Analyst(s):** AK



## Analytical Report

**Client:** Roux Associates, Inc.  
**Date Received:** 04/03/2020 11:40  
**Date Prepared:** 04/03/2020  
**Project:** 3374.0003S000; 285 12th St.

**WorkOrder:** 2004124  
**Extraction Method:** SW3510C  
**Analytical Method:** SW8015B  
**Unit:** µg/L

### Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RBMW-1	2004124-001B	Water	04/03/2020 10:43	GC11A 04062016.D	196560
<u>Analytes</u>		<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)		ND	50	1	04/06/2020 12:42
TPH-Motor Oil (C18-C36)		ND	250	1	04/06/2020 12:42
<u>Surrogates</u>		<u>REC (%)</u>	<u>Limits</u>		
C9		89	70-130		04/06/2020 12:42
<u>Analyst(s):</u> TD					



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 04/06/2020  
**Date Analyzed:** 04/06/2020  
**Instrument:** GC38  
**Matrix:** Water  
**Project:** 3374.0003S000; 285 12th St.

**WorkOrder:** 2004124  
**BatchID:** 196684  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-196684

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	30.0	40.0	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.220	0.500	-	-	-
Benzene	ND	0.0510	0.500	-	-	-
Bromobenzene	ND	0.0600	0.500	-	-	-
Bromochloromethane	ND	0.0900	0.500	-	-	-
Bromodichloromethane	ND	0.200	0.500	-	-	-
Bromoform	ND	0.0660	0.500	-	-	-
Bromomethane	ND	0.160	0.500	-	-	-
2-Butanone (MEK)	ND	2.00	5.00	-	-	-
t-Butyl alcohol (TBA)	ND	1.70	5.00	-	-	-
n-Butyl benzene	ND	0.0840	0.500	-	-	-
sec-Butyl benzene	ND	0.0600	0.500	-	-	-
tert-Butyl benzene	ND	0.0500	0.500	-	-	-
Carbon Disulfide	ND	0.280	0.500	-	-	-
Carbon Tetrachloride	ND	0.0690	0.500	-	-	-
Chlorobenzene	ND	0.0500	0.500	-	-	-
Chloroethane	ND	0.310	0.500	-	-	-
Chloroform	ND	0.0640	0.500	-	-	-
Chloromethane	ND	0.130	0.500	-	-	-
2-Chlorotoluene	ND	0.0700	0.500	-	-	-
4-Chlorotoluene	ND	0.0700	0.500	-	-	-
Dibromochloromethane	ND	0.0800	0.500	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.120	0.200	-	-	-
1,2-Dibromoethane (EDB)	ND	0.120	0.500	-	-	-
Dibromomethane	ND	0.0800	0.500	-	-	-
1,2-Dichlorobenzene	ND	0.0800	0.500	-	-	-
1,3-Dichlorobenzene	ND	0.0710	0.500	-	-	-
1,4-Dichlorobenzene	ND	0.0720	0.500	-	-	-
Dichlorodifluoromethane	ND	0.0630	0.500	-	-	-
1,1-Dichloroethane	ND	0.0600	0.500	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0900	0.500	-	-	-
1,1-Dichloroethene	ND	0.0860	0.500	-	-	-
cis-1,2-Dichloroethene	ND	0.0500	0.500	-	-	-
trans-1,2-Dichloroethene	ND	0.0600	0.500	-	-	-
1,2-Dichloropropane	ND	0.0550	0.500	-	-	-
1,3-Dichloropropane	ND	0.100	0.500	-	-	-
2,2-Dichloropropane	ND	0.100	0.500	-	-	-
1,1-Dichloropropene	ND	0.0600	0.500	-	-	-

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## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 04/06/2020  
**Date Analyzed:** 04/06/2020  
**Instrument:** GC38  
**Matrix:** Water  
**Project:** 3374.0003S000; 285 12th St.

**WorkOrder:** 2004124  
**BatchID:** 196684  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-196684

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.0900	0.500	-	-	-
trans-1,3-Dichloropropene	ND	0.0700	0.500	-	-	-
Diisopropyl ether (DIPE)	ND	0.0700	0.500	-	-	-
Ethylbenzene	ND	0.0500	0.500	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0700	0.500	-	-	-
Freon 113	ND	0.0660	0.500	-	-	-
Hexachlorobutadiene	ND	0.0850	0.500	-	-	-
Hexachloroethane	ND	0.0600	0.500	-	-	-
2-Hexanone	ND	0.410	1.00	-	-	-
Isopropylbenzene	ND	0.0700	0.500	-	-	-
4-Isopropyl toluene	ND	0.0500	0.500	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.100	0.500	-	-	-
Methylene chloride	ND	1.20	2.00	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.240	0.500	-	-	-
Naphthalene	ND	0.450	1.00	-	-	-
n-Propyl benzene	ND	0.0600	0.500	-	-	-
Styrene	ND	0.590	2.00	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.0700	0.500	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.110	0.500	-	-	-
Tetrachloroethene	ND	0.0820	0.500	-	-	-
Toluene	ND	0.250	0.500	-	-	-
1,2,3-Trichlorobenzene	ND	0.250	0.500	-	-	-
1,2,4-Trichlorobenzene	ND	0.0860	0.500	-	-	-
1,1,1-Trichloroethane	ND	0.0500	0.500	-	-	-
1,1,2-Trichloroethane	ND	0.180	0.500	-	-	-
Trichloroethene	ND	0.0600	0.500	-	-	-
Trichlorofluoromethane	ND	0.0470	0.500	-	-	-
1,2,3-Trichloropropane	ND	0.140	0.500	-	-	-
1,2,4-Trimethylbenzene	ND	0.0650	0.500	-	-	-
1,3,5-Trimethylbenzene	ND	0.0700	0.500	-	-	-
Vinyl Chloride	ND	0.0700	0.500	-	-	-
m,p-Xylene	ND	0.110	0.500	-	-	-
o-Xylene	ND	0.0600	0.500	-	-	-

(Cont.)



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 04/06/2020  
**Date Analyzed:** 04/06/2020  
**Instrument:** GC38  
**Matrix:** Water  
**Project:** 3374.0003S000; 285 12th St.

**WorkOrder:** 2004124  
**BatchID:** 196684  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-196684

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
<b>Surrogate Recovery</b>						
Dibromofluoromethane	23.3			25	93	76-110
Toluene-d8	23.9			25	96	84-111
4-BFB	2.25			2.5	90	64-121



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 04/06/2020  
**Date Analyzed:** 04/06/2020  
**Instrument:** GC38  
**Matrix:** Water  
**Project:** 3374.0003S000; 285 12th St.

**WorkOrder:** 2004124  
**BatchID:** 196684  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-196684

### QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	37.4	41.2	40	93	103	32-138	9.72	20
tert-Amyl methyl ether (TAME)	4.10	4.46	4	102	112	62-119	8.49	20
Benzene	4.00	4.25	4	100	106	71-126	6.28	20
Bromobenzene	4.24	4.44	4	106	111	66-117	4.55	20
Bromochloromethane	4.32	4.61	4	108	115	67-124	6.61	20
Bromodichloromethane	4.11	4.42	4	103	111	63-119	7.35	20
Bromoform	3.94	4.23	4	98	106	46-117	7.06	20
Bromomethane	8.42	8.95	4	210,F2	224,F2	32-171	6.20	20
2-Butanone (MEK)	14.8	15.8	16	93	99	48-136	6.31	20
t-Butyl alcohol (TBA)	15.1	16.1	16	94	101	40-131	6.58	20
n-Butyl benzene	4.34	4.52	4	108	113	75-125	4.16	20
sec-Butyl benzene	4.43	4.58	4	111	115	72-120	3.35	20
tert-Butyl benzene	4.14	4.36	4	103	109	63-118	5.21	20
Carbon Disulfide	3.99	4.17	4	100	104	64-126	4.49	20
Carbon Tetrachloride	4.00	4.26	4	100	106	67-122	6.16	20
Chlorobenzene	4.09	4.30	4	102	107	71-117	4.89	20
Chloroethane	4.11	4.32	4	103	108	53-136	4.76	20
Chloroform	4.03	4.31	4	101	108	67-126	6.60	20
Chloromethane	3.53	3.67	4	88	92	42-148	4.05	20
2-Chlorotoluene	4.40	4.59	4	110	115	70-117	4.16	20
4-Chlorotoluene	4.27	4.45	4	107	111	67-117	4.18	20
Dibromochloromethane	4.16	4.48	4	104	112	52-120	7.34	20
1,2-Dibromo-3-chloropropane	1.84	2.01	2	92	100	38-128	9.08	20
1,2-Dibromoethane (EDB)	1.86	2.02	2	93	101	58-117	8.31	20
Dibromomethane	4.21	4.60	4	105	115	66-120	8.78	20
1,2-Dichlorobenzene	4.14	4.29	4	103	107	71-117	3.66	20
1,3-Dichlorobenzene	4.34	4.49	4	109	112	74-116	3.46	20
1,4-Dichlorobenzene	4.14	4.29	4	103	107	71-115	3.74	20
Dichlorodifluoromethane	4.20	4.32	4	105	108	29-145	2.85	20
1,1-Dichloroethane	4.03	4.28	4	101	107	68-128	6.00	20
1,2-Dichloroethane (1,2-DCA)	3.94	4.28	4	99	107	61-123	8.09	20
1,1-Dichloroethene	4.11	4.31	4	103	108	65-126	4.82	20
cis-1,2-Dichloroethene	3.94	4.21	4	98	105	71-122	6.65	20
trans-1,2-Dichloroethene	4.01	4.25	4	100	106	70-126	5.79	20
1,2-Dichloropropane	3.98	4.28	4	100	107	67-124	7.31	20
1,3-Dichloropropane	4.24	4.38	4	106	109	65-120	3.28	20
2,2-Dichloropropane	4.36	4.56	4	109	114	71-127	4.49	20
1,1-Dichloropropene	4.22	4.49	4	106	112	69-122	6.25	20

(Cont.)



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 04/06/2020  
**Date Analyzed:** 04/06/2020  
**Instrument:** GC38  
**Matrix:** Water  
**Project:** 3374.0003S000; 285 12th St.

**WorkOrder:** 2004124  
**BatchID:** 196684  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-196684

### QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	4.26	4.59	4	107	115	63-119	7.34	20
trans-1,3-Dichloropropene	4.08	4.37	4	102	109	63-116	6.93	20
Diisopropyl ether (DIPE)	3.95	4.24	4	99	106	64-128	7.15	20
Ethylbenzene	4.15	4.40	4	104	110	69-120	5.99	20
Ethyl tert-butyl ether (ETBE)	4.16	4.50	4	104	112	63-120	7.71	20
Freon 113	4.15	4.36	4	104	109	67-126	4.82	20
Hexachlorobutadiene	4.32	4.48	4	108	112	50-140	3.60	20
Hexachloroethane	4.03	4.21	4	101	105	52-122	4.49	20
2-Hexanone	3.65	3.91	4	91	98	39-121	6.76	20
Isopropylbenzene	4.16	4.37	4	104	109	69-120	4.98	20
4-Isopropyl toluene	4.22	4.38	4	105	109	72-122	3.77	20
Methyl-t-butyl ether (MTBE)	4.01	4.38	4	100	109	60-121	8.86	20
Methylene chloride	4.01	4.36	4	100	109	40-148	8.48	20
4-Methyl-2-pentanone (MIBK)	3.72	4.14	4	93	104	48-115	10.7	20
Naphthalene	4.11	4.50	4	103	112	62-124	9.05	20
n-Propyl benzene	4.29	4.44	4	107	111	70-118	3.53	20
Styrene	3.91	4.19	4	98	105	57-118	6.87	20
1,1,1,2-Tetrachloroethane	4.35	4.66	4	109	117	63-117	6.95	20
1,1,2,2-Tetrachloroethane	4.28	4.60	4	107	115	60-116	7.16	20
Tetrachloroethene	4.10	4.34	4	102	109	60-131	5.81	20
Toluene	3.92	4.16	4	98	104	67-115	6.08	20
1,2,3-Trichlorobenzene	4.20	4.54	4	105	113	60-128	7.79	20
1,2,4-Trichlorobenzene	4.34	4.59	4	108	115	61-133	5.58	20
1,1,1-Trichloroethane	4.21	4.44	4	105	111	67-124	5.32	20
1,1,2-Trichloroethane	4.16	4.51	4	104	113	62-117	8.07	20
Trichloroethene	3.87	4.13	4	97	103	69-120	6.50	20
Trichlorofluoromethane	4.10	4.29	4	103	107	60-134	4.49	20
1,2,3-Trichloropropane	1.89	2.04	2	94	102	56-120	7.53	20
1,2,4-Trimethylbenzene	4.16	4.37	4	104	109	67-124	4.98	20
1,3,5-Trimethylbenzene	4.29	4.46	4	107	112	69-122	3.95	20
Vinyl Chloride	2.32	2.43	2	116	122	52-145	4.75	20
m,p-Xylene	8.95	9.41	8	112	118	67-119	5.06	20
o-Xylene	4.24	4.49	4	106	112	68-120	5.69	20

(Cont.)



## Quality Control Report

<b>Client:</b> Roux Associates, Inc.	<b>WorkOrder:</b> 2004124
<b>Date Prepared:</b> 04/06/2020	<b>BatchID:</b> 196684
<b>Date Analyzed:</b> 04/06/2020	<b>Extraction Method:</b> SW5030B
<b>Instrument:</b> GC38	<b>Analytical Method:</b> SW8260B
<b>Matrix:</b> Water	<b>Unit:</b> µg/L
<b>Project:</b> 3374.0003S000; 285 12th St.	<b>Sample ID:</b> MB/LCS/LCSD-196684

### QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
<b>Surrogate Recovery</b>								
Dibromofluoromethane	23.9	23.7	25	95	95	76-110	0.615	20
Toluene-d8	23.9	23.9	25	96	96	84-111	0.0513	20
4-BFB	2.32	2.30	2.5	93	92	64-121	0.624	20



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 04/06/2020  
**Date Analyzed:** 04/06/2020  
**Instrument:** GC38  
**Matrix:** Water  
**Project:** 3374.0003S000; 285 12th St.

**WorkOrder:** 2004124  
**BatchID:** 196684  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-196684

### QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	11.0	50.0	-	-	-
<b>Surrogate Recovery</b>						
Dibromofluoromethane	25.0			25	100	76-110

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(g) (C6-C12)	181	181	200	91	91	70-118	0.211	20
<b>Surrogate Recovery</b>								
Dibromofluoromethane	25.2	25.1	25	101	101	76-110	0.110	20



## Quality Control Report

**Client:** Roux Associates, Inc.  
**Date Prepared:** 04/03/2020  
**Date Analyzed:** 04/06/2020  
**Instrument:** GC11A  
**Matrix:** Water  
**Project:** 3374.0003S000; 285 12th St.

**WorkOrder:** 2004124  
**BatchID:** 196560  
**Extraction Method:** SW3510C  
**Analytical Method:** SW8015B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-196560

### QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	29.0	50.0	-	-	-
TPH-Motor Oil (C18-C36)	ND	130	250	-	-	-
<b>Surrogate Recovery</b>						
C9	573			625	92	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	958	970	1000	96	97	70-130	1.26	20
<b>Surrogate Recovery</b>								
C9	547	551	625	88	88	70-130	0.795	20



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 2004124

ClientCode: RASF

- WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQulS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag  
 Detection Summary   
  Dry-Weight

**Report to:**

Taylor Barrett  
Roux Associates, Inc.  
555 12th Street, Suite 250  
Oakland, CA 94607  
(415) 967-6015    FAX: (415) 967-6001

Email: tbarrett@rouxinc.com  
cc/3rd Party: abroffman@rouxinc.com; jgraber@rouxinc.  
PO:  
Project: 3374.0003S000; 285 12th St.

**Bill to:**

Accounts Payable/Donna Andrusco  
Roux Associates, Inc.  
209 Shafter Street  
Islandia, NY 11749-5074  
Rouxap@rouxinc.com

**Requested TAT: 5 days;**

**Date Received: 04/03/2020**

**Date Logged: 04/03/2020**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
2004124-001	RBMW-1	Water	4/3/2020 10:43	<input type="checkbox"/>	A	A	A	B									

**Test Legend:**

1	8260B_W	2	8260GAS_W	3	PRDisposal Fee	4	TPH(DMO)_W
5		6		7		8	
9		10		11		12	

**Project Manager: Susan Thompson**

**Prepared by: Tina Perez**

The following SampID: 001A contains testgroup Gas8260\_W.

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.





### WORK ORDER SUMMARY

**Client Name:** ROUX ASSOCIATES, INC.

**Project:** 3374.0003S000; 285 12th St.

**Work Order:** 2004124

**Client Contact:** Taylor Barrett

**QC Level:** LEVEL 2

**Contact's Email:** tbarrett@rouxinc.com

**Comments:**


**Date Logged:** 4/3/2020

WaterTrax     WriteOn     EDF     Excel     EQUIS     Email     HardCopy     ThirdParty     J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2004124-001A	RBMW-1	Water	TPH(g) & 8260 by P&T GCMS	2	VOA w/ HCl	<input type="checkbox"/>	4/3/2020 10:43	5 days	Present	<input type="checkbox"/>	
2004124-001B	RBMW-1	Water	SW8015B (Diesel & Motor Oil)	2	aVOA, Unpres	<input type="checkbox"/>	4/3/2020 10:43	5 days	Present	<input type="checkbox"/>	

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

	<b>McCAMPBELL ANALYTICAL, INC.</b> 1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701 Telephone: (877) 252-9262 / Fax: (925) 252-9269 www.mccampbell.com      main@mccampbell.com	<b>CHAIN OF CUSTODY RECORD</b>					
	Turn Around Time: 1 Day Rush		2 Day Rush	3 Day Rush	STD <input checked="" type="checkbox"/>	Quote #	
	J-Flag / MDL	ESL	Cleanup Approved		Dry Weight	Bottle Order #	
	Delivery Format: PDF <input checked="" type="checkbox"/>		GeoTracker EDF	EDD <input checked="" type="checkbox"/>	Write On (DW)	Detect Summary	

Report To: <i>Taylor Barrett, Josh Graber, Amanda Broffman</i>	Bill To: <i>3374.00035000</i>
Company: <i>Rux Associates, Inc.</i>	
Address: <i>tbarrett@ruxinc.com, jgraber@ruxinc.com</i>	
Email: <i>abroffman@ruxinc.com</i>	Tele: <i>415-967-6015</i>
Project Name: <i>285 12th St</i>	Project #: <i>3374.00035000</i>
Project Location: <i>285 12th St Oakland CA</i> PO #	
Sampler Signature: <i>Amanda Broffman (AB)</i>	

SAMPLE ID Location / Field Point						Sampling		#Containers	Matrix	Preservative	Analysis Requested																								
						Date	Time				Multi Range as Gas, Diesel, and Motor Oil (8021/8015)	BTEX & TPH as Gas (8021/8015) MTBE	TPH as Diesel (8015) + Motor Oil Without Silica Gel	TPH as Diesel (8015) + Motor Oil With Silica Gel	Total Oil & Grease (1664 / 9071) Without Silica Gel	Total Petroleum Hydrocarbons - Oil & Grease (1664 / 9071) With Silica Gel	Total Petroleum Hydrocarbons (418.1) With Silica Gel	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ; Aroclors only	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAS)	CAM 17 Metals (200.8 / 6020)*	Metals (200.8 / 6020)*	Bybands Requirements	Lab to filter sample for dissolved metals analysis	VOCs by 8260 B	TPH-g by 8260 B	TPH-diesel by 8015						
f	RBMW-1	4/3/20	1043	4	GW	HCL/NP (a) (b)																											X	X	X

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

\* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8. Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time
<i>Amanda Broffman</i>		4/3/20	1100	<i>[Signature]</i>		4/3/20	1100
<i>[Signature]</i>		4/3/20	1040	<i>[Signature]</i>		4/3/20	11:40

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other  
 Preservative Code: 1=4°C 2=HCl 3=H2SO4 4=HNO3 5=NaOH 6=ZnOAc/NaOH 7=None  
 Temp 5.1 °C Initials TP



## Sample Receipt Checklist

Client Name: **Roux Associates, Inc.**  
 Project: **3374.0003S000; 285 12th St.**

Date and Time Received: **4/3/2020 11:40**  
 Date Logged: **4/3/2020**  
 Received by: **Tina Perez**  
 Logged by: **Tina Perez**

WorkOrder No: **2004124** Matrix: Water  
 Carrier: Lorenzo Perez (MAI Courier)

### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
COC agrees with Quote?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE )

Sample/Temp Blank temperature	Temp: 5.1°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

#### UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Comments:

# Appendix C

## Explosives and Fire Hazard Review

September 10, 2019

Mr. Tyler Rogers  
**DAVID J. POWERS AND ASSOCIATES**  
1871 The Alameda, Suite 200  
San Jose, California 95126

Re: HUD Explosive and Fire Hazards Review  
285 12<sup>th</sup> Street  
Oakland, California

Dear Mr. Rogers:

This HUD Explosive and Fire Hazards Review was performed for David J. Powers and Associates, who is conducting a NEPA study for the proposed mixed-use redevelopment of the property located at 285 12<sup>th</sup> Street in Oakland, California.

***Purpose***

The purpose of this HUD Explosive and Fire Hazards Review was to identify facilities in the vicinity of the project site having significant observed or reported Specific Hazardous Substances (per 24 CFR Part 51 C, Appendix I) storage, and to evaluate the "acceptable separation distance (ASD)" for the storage containers with respect to their proximity to the project site. This letter was prepared in accordance with the Agreement for Professional Services dated August 30, 2019.

***Scope of Work***

This survey was conducted in general accordance with 24 CFR Part 51 Subpart C, Siting of HUD-Assisted Projects Near Hazardous Operations Handling Conventional Fuels or Chemicals of an Explosive or Flammable Nature. The scope of work performed included the following tasks.

- ◆ Performed a visual survey of the site vicinity in an attempt to identify readily observable names and addresses of businesses located within an approximate 1-mile radius of the project site appearing to have the potential to store significant quantities of Specific Hazardous Substances (list appended to this letter) or other flammable materials in stationary aboveground containers.
  
- ◆ Requested the most recent hazardous materials inventory for each of the identified

*Running Moose Environmental Consulting, LLC*  
*1355 Poe Lane, San Jose, CA 95130*  
*Phone: 408-307-0129*



facilities through the Alameda County Environmental Health Department (ACEHD) and downloaded available inventory and other pertinent information from the CalEPA Regulated Site Portal.

- ◆ Reviewed available/provided ACEHD inventories and downloaded CalEPA Portal information.
- ◆ Reconciled hazardous materials volume ranges on CalEPA Portal with most current inventories available from ACEHD, as warranted.
- ◆ Compared current volume ranges reported on CalEPA Portal with expired/aged ACEHD inventory volumes, as warranted.
- ◆ Calculated ASDs for facilities with reported storage of qualifying quantities of Specific Hazardous Substances or other flammable materials stored in stationary aboveground containers.

***Identified Potentially Significant Vicinity Facilities***

On September 2, 2019, a visual survey of the businesses within approximately 1 mile of the project site was performed in an attempt to identify those appearing likely to store significant quantities of Specific Hazardous Substances or other flammable materials. Subsequently, a drive-by survey of the businesses identified as potentially significant was performed, in order to identify readily observable names and addresses. Current hazardous materials/waste inventories for 10 identified businesses were requested from the ACEHD and reviewed on the CalEPA Portal. Nine of the identified businesses had hazardous materials inventories on file, either with the ACEHD or on the CalEPA Portal.

The ACEHD/CalEPA documentation reported storage of Specific Hazardous Substances (per 24 CFR Part 51 C, Appendix I) or other flammable materials at quantities determined to warrant calculation of ASDs, in general accordance with the procedures outlined in 24 CFR Part 51 C, for eight businesses. A summary of the eight businesses with storage of Specific Hazardous Substances or other flammable materials, and the most conservative calculated ASD for each, is presented in the table on the following page. The complete ASD calculations are included as an attachment to this letter.

## IDENTIFIED POTENTIALLY SIGNIFICANT FACILITIES AND ASSOCIATED ASDS

Facility Name	Facility Address	Approximate Distance from Site <sup>1</sup> (feet)	Calculated ASD (feet)
Alco Park Garage	165 13 <sup>th</sup> Street	654	480 gallons motor oil = 204
Oakland Fire Department	822 Alice Street	815	500 gallons diesel = 208
Caliber Collision Centers	149 11 <sup>th</sup> Street	988	59 gallons <sup>2</sup> lacquer thinner = 86
Oakland Ice Center	519 18 <sup>th</sup> Street	2,145	238 gallons <sup>2</sup> propane = 153
BART Washington Street Substation	Washington Street @ 5 <sup>th</sup> Street	2,480	2,999 gallons <sup>2</sup> Shell Diala Oil AX = 438
Dynegy Oakland, LLC	50 Martin Luther King Jr. Way	3,794	2,100,000 gallons jet fuel within approximately 14,000-sq.-ft. diked area <sup>3</sup> = 467
T-Mobile Oakland Switch Facility	720 2 <sup>nd</sup> Street	4,065	2,000 gallons diesel = 370
365 Main Oakland Data Center	720 2 <sup>nd</sup> Street	4,065	3,000 gallons diesel = 438

<sup>1</sup> Distance from anticipated storage location of explosive and/or flammable material to nearest property line of the project site measured using ruler feature of Google Earth.

<sup>2</sup> Maximum storage volume based on range provided on DTSC Regulated Site Portal (<https://siteportal.calepa.ca.gov/nsite>)

<sup>3</sup> Jet fuel AST volume obtained from CalEPA Regulated Site Portal; diked area not documented on DTSC Portal so was estimated utilizing ruler feature of Google Earth

### ***Conclusions***

Based on the calculated values, the ASD for each of the identified Specific Hazardous Substances or other flammable materials reported at vicinity facilities is satisfied for the project site.

### ***Limitations***

The conclusions and recommendations made in this letter regarding potentially significant Specific Hazardous Substances and other flammable materials users within the site vicinity were based on business names/addresses readily observable from accessible public right-of-ways and review of provided readily available documents containing data collected and/or reported by others at the time this study was performed. Other businesses using Specific Hazardous Substances or other flammable materials may have been located within a 1-mile radius of the site but were not observable or readily identifiable at the time this study was performed; data collected and/or reported by others may or may not have been accurate.

As discussed previously, the area of the dike around the Dynegy Oakland jet fuel tank was not documented in materials available for review and therefore was estimated utilizing the Google Earth ruler feature. The accuracy and completeness of hazardous materials information provided by the ACEHD and CalEPA Portal is unknown. ACEHD inventories were up to seven years old and inventory changes may have occurred in the intervening years. More accurate information on types, quantities, and storage conditions of explosive and/or flammable materials used at vicinity

facilities could be obtained through performance of a site reconnaissance and/or interview with the business operators.

The data and conclusions presented in this letter are applicable only to the time this study was performed. Businesses and materials used within the site vicinity likely will change over time and this study should be updated as appropriate, to ensure that the most currently available data has been included. As with all HUD Explosive and Fire Hazard Reviews, the extent of information obtained was a function of client demands, time limitations, access limitations, and budgetary constraints.

This letter was prepared for the sole use of David J. Powers and Associates. No warranty, expressed or implied, has been made, except that the services have been performed in accordance with environmental principles generally accepted at this time and location.

Thank you for allowing Running Moose Environmental Consulting, LLC to assist you with this project. If you have any questions, please do not hesitate to call.

Sincerely,

Running Moose Environmental Consulting, LLC



Belinda P. Blackie, P.E.  
P.E. Number C56448  
Principal Environmental Engineer



## **References**

- CalEPA Regulated Site Portal. *Chemical Storage, Bart Washington Street Substation (KWS), Washington St. at 5<sup>th</sup> St., Oakland, CA 94607*. January 8, 2019.
- CalEPA Regulated Site Portal. *Chemical Storage, Caliber Bodyworks Inc. dba Caliber Collision Centers-Oakland-11<sup>th</sup>, 149 11<sup>th</sup> Street, Oakland, CA 94607*. November 7, 2018.
- California Environmental Reporting System (CERS). *Hazardous Materials and Wastes Inventory Matrix Report, County of Alameda GSA Alco Park Garage, 165 13<sup>th</sup> Street, Oakland 94612*. March 10, 2014.
- CalEPA Regulated Site Portal. *Compliance – APSA Aboveground Petroleum Storage Act (APSA), Oakland Power Plant, 50 Martin Luther King Jr. Way, Oakland, CA 94607*. June 2, 2016.
- Unified Program Consolidated Form. *Hazardous Materials - Chemical Description, Oakland Ice Center, 519 18<sup>th</sup> Street, Oakland, CA 94612*. February 23, 2009.
- Unified Program Consolidated Form. *Hazardous Materials - Chemical Description, 365 Main Inc., 720 2<sup>nd</sup> Street, Oakland*. May 11, 2007.
- Unified Program Consolidated Form. *Non-Waste Hazardous Materials Inventory Statement, City of Oakland Fire Station #12, Oakland, CA 94607*. March 15, 2008.
- Unified Program Consolidated Form. *Hazardous Materials - Chemical Description, T-Mobile USA, Inc. West Oakland Switch, 720 2<sup>nd</sup> Street, Oakland, CA 94607*. February 3, 2012.
- Cornell Law School, Legal Information Institute. *Appendix I to Subpart C of Part 51 – Specific Hazardous Substances*. Undated. [https://www.law.cornell.edu/cfr/text/24/appendix-I to subpart C of part 51](https://www.law.cornell.edu/cfr/text/24/appendix-I%20to%20subpart%20C%20of%20part%2051)
- HUD. *24 CFR Part 51 Subpart C, Siting of HUD-Assisted Projects Near Hazardous Operations Handling Conventional Fuels or Chemicals of an Explosive or Flammable Nature, Acceptable Separation Distance (ASD) Electronic Assessment Tool*. 2018. <https://www.hudexchange.info/environmental-review/asd-calculator/>
- HUD Exchange. *Explosive and Flammable Facilities*. 2018. <https://www.hudexchange.info/environmental-review/explosive-and-flammable-facilities/>

**Specific Hazardous Substances**  
(per Appendix I to Subpart C of Part 51)

<b>Hazardous Liquids</b>	<b>Hazardous Gases</b>
Acetic Acid	Acetaldehyde
Acetic Anhydride	Butadiene
Acetone	Butane
Acrylonitrile	Ethene
Amyl Acetate	Ethylene
Amyl Alcohol	Ethylene Oxide
Benzene	Hydrogen
Butyl Acetate	Liquefied Natural Gas (LNG)
Butyl Acrylate	Liquefied Petroleum Gas (LPG)
Butyl Alcohol	Propane
Carbon Bisulfide	Propylene
Carbon Disulfide	Vinyl Chloride
Cellosolve	
Cresols	
Crude Oil (Petroleum)	
Cumene	
Cyclohexane	
No. 2 Diesel Fuel	
Ethyl Acetate	
Ethyl Acrylate	
Ethyl Alcohol	
Ethyl Benzene	
Ethyl Dichloride	
Ethyl Ether	
Gasoline	
Heptane	
Hexane	
Isobutyl Acetate	
Isobutyl Alcohol	
Isopropyl Acetate	
Isopropyl Alcohol	
Jet Fuel and Kerosene	
Methyl Alcohol	
Methyl Amyl Alcohol	
Methyl Cellosolve	
Methyl Ethyl Ketone	
Naptha	
Pentane	
Propylene Oxide	
Toluene	
Vinyl Acetate	
Xylene	

## ***ASD Calculations***

All ASDs were calculated using the program at:  
<https://www.hudexchange.info/environmental-review/asd-calculator/>

Values listed in summary table within the letter were rounded up to the nearest whole foot.

### **Alco Park Garage – 165 13<sup>th</sup> Street**

- 480 gallons motor oil (ambient pressure)  
ASD for Thermal Radiation for People = 203.71 feet  
ASD for Thermal Radiation for Buildings = 35.81 feet

### **Oakland Fire Department – 822 Alice Street**

- 500 gallons diesel (ambient pressure)  
ASD for Thermal Radiation for People = 207.20 feet  
ASD for Thermal Radiation for Buildings = 36.50 feet

### **Caliber Collision Centers – 149 11<sup>th</sup> Street**

- 59 gallons lacquer thinner (ambient pressure)  
ASD for Thermal Radiation for People = 85.06 feet  
ASD for Thermal Radiation for Buildings = 13.59 feet

### **Oakland Ice Center – 519 18<sup>th</sup> Street**

- 999 pounds propane (not stated, presumed pressurized)  
4.2 pounds propane/1 gallon propane  
237.9 gallons propane  
ASD for Blast Overpressure = 136.25 feet  
ASD for Thermal Radiation for People = 152.06 feet  
ASD for Thermal Radiation for Buildings = 25.89 feet

### **BART Washington Street Substation – Washington Street @ 5<sup>th</sup> Street**

- 2,999 gallons Shell Diala Oil AX (ambient pressure)  
ASD for Thermal Radiation for People = 437.03 feet  
ASD for Thermal Radiation for Buildings = 83.54 feet

### **Dynergy Oakland, LLC – 50 Martin Luther King Jr. Way**

- 2,100,000 gallons jet fuel (ambient pressure)  
Approximately 14,000-square-foot diked area surrounding tank (actual data unavailable from ACEHD and CalEPA Portal, diked area measured on Google Earth photograph utilizing ruler function)  
ASD for Thermal Radiation for People (considering dike) = 466.21 feet  
ASD for Thermal Radiation for Buildings (considering dike) = 89.82 feet

**T-Mobile Oakland Switch Facility – 720 2<sup>nd</sup> Street**

- 2,000 gallons diesel (ambient pressure)  
ASD for Thermal Radiation for People = 369.16 feet  
ASD for Thermal Radiation for Buildings = 69.27 feet

**365 Main Oakland Data Center – 720 2<sup>nd</sup> Street**

- 3,000 gallons diesel (ambient pressure)  
ASD for Thermal Radiation for People = 437.09 feet  
ASD for Thermal Radiation for Buildings = 83.56 feet

**County of Alameda GSA AlcoPark Garage (CERSID: 10398013)****Facility Information Accepted Jul 25, 2014**

Submitted on 3/10/2014 11:43:09 AM by *Rod Freitag* of Alameda County General Services Agency (Oakland)  
Submittal was **Accepted** on 7/25/2014 10:28:11 AM by Sheryl Skillern

- Business Activities
- Business Owner/Operator Identification

**Hazardous Materials Inventory Accepted Jul 25, 2014**

Submitted on 3/10/2014 11:43:09 AM by *Rod Freitag* of Alameda County General Services Agency (Oakland)  
Submittal was **Accepted** on 7/25/2014 10:28:36 AM by Sheryl Skillern

- Hazardous Material Inventory (13)
- Site Map (Official Use Only)
  - *Fig 1 - AlcoPark Location Map* (Adobe PDF, 131KB)
  - *Fig 2 - AlcoPark Site Plan* (Adobe PDF, 57KB)
  - *Fig 3 - AlcoPark Storage Map* (Adobe PDF, 118KB)

**Emergency Response and Training Plans Accepted Jul 25, 2014**

Submitted on 3/10/2014 11:43:09 AM by *Rod Freitag* of Alameda County General Services Agency (Oakland)  
Submittal was **Accepted** on 7/25/2014 10:29:43 AM by Sheryl Skillern

- Emergency Response/Contingency Plan
  - *Emergency Response/Contingency Plan* (Adobe PDF, 549KB)
- Employee Training Plan
  - Provided In Submittal Element: Emergency Response and Training Plans

**Underground Storage Tanks Accepted Jul 25, 2014**

Submitted on 3/10/2014 11:43:09 AM by *Rod Freitag* of Alameda County General Services Agency (Oakland)  
Submittal was **Accepted** on 7/25/2014 10:29:02 AM by Sheryl Skillern

- UST Facility Operating Permit Application
- UST Tank Information/Monitoring Plan - Tank ID #1921-3
- UST Tank Information/Monitoring Plan - Tank ID #1921-4
- UST Monitoring Site Plan
  - *UST Monitoring Site Plan* (Adobe PDF, 4191KB)
- UST Certification of Financial Responsibility
  - *UST Certification of Financial Responsibility* (Adobe PDF, 267KB)
- UST Response Plan
  - *UST Response Plan* (Adobe PDF, 1190KB)
- UST Owner/Operator: Written Agreement
  - County of Alameda owns this facility. GSA is the County Agency responsible for operating and maintaining this facility.
- UST Letter from Chief Financial Officer
  - Provided In Submittal Element: Underground Storage Tanks
- Owner Statement of Designated UST Operator Compliance
  - *Owner Statement of Designated UST Operator Compliance* (Adobe PDF, 287KB)

**Site Identification****County of Alameda GSA AlcoPark Garage**165 13th St  
Oakland, CA 94612County  
AlamedaCERS ID  
**10398013**EPA ID Number  
CAD981413313**Submission Status**Submitted on 3/10/2014 by *Rod Freitag* of Alameda County General Services Agency (Oakland)  
Submission was **Accepted**; Processed on 7/25/2014 by *Sheryl Skillern* for Oakland City Fire Department**Hazardous Materials**

Does your facility have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or is regulated under more restrictive inventory local reporting requirements (shown below if present); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?

**Yes****Underground Storage Tank(s) (UST)**

Does your facility own or operate underground storage tanks?

**Yes****Hazardous Waste**

Is your facility a Hazardous Waste Generator?

**Yes**

Does your facility treat hazardous waste on-site?

**No**

Is your facility's treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?

**No**

Does your facility consolidate hazardous waste generated at a remote site?

**No**

Does your facility need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-site?

**No**

Does your facility generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month, or accumulate at any time, 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate or accumulate at any time more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste.

**No**

Is your facility a Household Hazardous Waste (HHW) Collection site?

**No****Excluded and/or Exempted Materials**

Does your facility recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?

**No**

Does your facility own or operate ASTs above these thresholds? Store greater than 1,320 gallons of petroleum products (new or used) in aboveground tanks or containers.

**No**

Does your facility have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release prevention Program (CalARP)?

**No****Additional Information**

No additional comments provided.

<b>Facility/Site</b>		CERS ID
<b>County of Alameda GSA AlcoPark Garage</b>		<b>10398013</b>
165 13th St Oakland, CA 94612		

<b>Submittal Status</b>
Submitted on 3/10/2014 by <i>Rod Freitag</i> of Alameda County General Services Agency (Oakland) Submittal was <b>Accepted</b> ; Processed on 7/25/2014 by <i>Sheryl Skillern</i> for Oakland City Fire Department

<b>Identification</b>		
County of Alameda GSA - Motor Vehicle Division		
Operator-Phone (510) 272-6403	Business Phone (510) 272-6403	Business Fax
Beginning Date 3/1/2014	Ending Date 2/28/2015	
Dun & Bradstreet	SIC Code 7538	Primary NAICS 811111

<b>Facility/Site Mailing Address</b>
165 - 13th Street Oakland, CA 94612

<b>Primary Emergency Contact</b>		
Al Garcia		
Title Shop Supervisor		
Business Phone (510) 272-6403	24-Hour Phone (510) 283-8938	Pager Number

<b>Owner</b>
County of Alameda GSA (510) 272-6403 165 - 13th Street Oakland, CA 94612

<b>Secondary Emergency Contact</b>		
Doug Bond		
Title Transportation Services Manager		
Business Phone (510) 272-6401	24-Hour Phone (925) 858-6762	Pager Number

<b>Billing Contact</b>
Rod Freitag (510) 208-9522      rod.freitag@acgov.org 1401 Lakeside Drive, Room 1115 Oakland, CA 94612

<b>Environmental Contact</b>	
Rod Freitag (510) 208-9522      rod.freitag@acgov.org 1401 Lakeside Drive, Room 1115 Oakland, CA 94612	

<b>Name of Signer</b> Rod Freitag	<b>Signer Title</b> Environmental Program Manager	<b>Document Preparer</b> Joe Moulton, Du-All Safety
<b>Additional Information</b> Du-All Safety, LLC   45950 Hotchkiss St.   Fremont, CA 94539 (510) 651-8289   (510) 681-9728 Cell   (510) 651-8937 Fax		

<b>Locally-collected Fields</b>								
Some or all of the following fields may be required by your local regulator(s).								
<table border="1"> <tr> <td><b>Property Owner</b></td> </tr> <tr> <td>County of Alameda</td> </tr> <tr> <td>Phone</td> </tr> <tr> <td>Mailing Address</td> </tr> </table>	<b>Property Owner</b>	County of Alameda	Phone	Mailing Address	<table border="1"> <tr> <td>Assessor Parcel Number (APN)</td> </tr> <tr> <td>Number of Employees</td> </tr> <tr> <td>Facility ID</td> </tr> </table>	Assessor Parcel Number (APN)	Number of Employees	Facility ID
<b>Property Owner</b>								
County of Alameda								
Phone								
Mailing Address								
Assessor Parcel Number (APN)								
Number of Employees								
Facility ID								

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org: <b>Alameda County General Services Agency</b>	Chemical Location: <b>Diesel Storage</b>	CERS ID: <b>10398013</b>
Facility Name: <b>County of Alameda GSA AlcoPark Garage</b>		Facility ID:
165 13th St, Oakland 94612		Status: <b>Submitted on 3/10/2014 11:43 AM</b>

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 3 - Flammable and Combustible Liquids	<b>Diesel Fuel No. 2</b>	<b>Gallons</b>	<b>228</b>	<b>55</b>	<b>114</b>		- Fire - Acute Health - Chronic health			
Combustible Liquid, Class II	CAS No <b>68476-34-6</b> Map: Figure 3 Grid: R21	State Liquid	Storage Container Steel Drum, Other		Pressure Ambient	Waste Code				
		Type Pure	Days on Site: 365		Temperature Ambient					



## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org: <b>Alameda County General Services Agency</b>	Chemical Location: <b>Fuel Dispenser Area</b>	CERS ID: <b>10398013</b>
Facility Name: <b>County of Alameda GSA AlcoPark Garage</b>		Facility ID:
165 13th St, Oakland 94612		Status: <b>Submitted on 3/10/2014 11:43 AM</b>

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 3 - Flammable and Combustible Liquids	<b>Unleaded Gasoline</b>	<b>Gallons</b>	<b>18000</b>	<b>10000</b>	12000		- Fire	Gasoline	100 %	8006-61-9
	Flammable Liquid, Class I-A, Other Health Hazard, Irritant	CAS No: 8006-61-9 Map: Figure 3 Grid: B20	State Liquid	Storage Container Belowground Tank	Pressure Ambient	Waste Code	- Acute Health - Chronic health	Toluene	35 %	108-88-3
		Type Mixture	Days on Site: 365		Temperature Ambient		Ethyl Alcohol	20 %	64-17-5	
							Isopentane	20 %	78-78-4	
							Butane	10 %	106-97-8	

### Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org: <b>Alameda County General Services Agency</b>	Chemical Location: <b>Oil Room, Parts Room and Service Bays</b>	CERS ID: <b>10398013</b>
Facility Name: <b>County of Alameda GSA AlcoPark Garage</b>		Facility ID:
165 13th St, Oakland 94612		Status: <b>Submitted on 3/10/2014 11:43 AM</b>

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 3 - Flammable and Combustible Liquids	<b>Motor Oil, ATF, Hydraulic Fluid</b>	<b>Gallons</b>	<b>780</b>	<b>480</b>	390		- Fire	VARIOUS LUBRICATING BASE OILS	85 %	6474X-XX-X
Combustible Liquid, Class III-B	CAS No. _____ Map: Figure 3 Grid: D6, K16, H4	State _____ Liquid _____ Type _____ Mixture _____	Storage Container _____ Aboveground Tank, Tank Inside _____ Building, Steel Drum, Plastic Bottle _____ or Jug, Other _____ Days on Site: 365	Pressue _____ Ambient _____ Temperature _____ Ambient _____	Waste Code _____			ADDITIVE PACKAGE, INCLUDING ZINC ALKYLDITHIOPHOSPHATE	15 % 2 %	MIXTURE 68649-42-3

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org: <b>Alameda County General Services Agency</b> Facility Name: <b>County of Alameda GSA AlcoPark Garage</b> 165 13th St, Oakland 94612	Chemical Location: <b>Parts Room</b>	CERS ID: <b>10398013</b> Facility ID: Status: <b>Submitted on 3/10/2014 11:43 AM</b>
---	---	--

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 2.1 - Flammable Gases	<b>Acetylene</b>	<b>Cu. Feet</b>	<b>290</b>	<b>145</b>	<b>200</b>		- Fire			
Unstable (Reactive), Class 2, Flammable Gas	CAS No <b>74-86-2</b> Map: Figure 3 Grid: D6	State Gas Type Pure	Storage Container Cylinder Days on Site: 365		Pressue > Ambient Temperature Ambient	Waste Code	- Reactive - Pressure Release - Acute Health			

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org: <b>Alameda County General Services Agency</b> Facility Name: <b>County of Alameda GSA AlcoPark Garage</b> 165 13th St, Oakland 94612	Chemical Location: <b>Parts Room and Service Bays</b>	CERS ID: <b>10398013</b> Facility ID: Status: <b>Submitted on 3/10/2014 11:43 AM</b>
---	---	--

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 9 - Misc. Hazardous Materials Combustible Liquid, Class III-B, Irritant	<b>Ethylene Glycol</b>  CAS No 107-21-1 Map: Figure 3 Grid: D6, F4, K3, L3	<b>Gallons</b>	<b>55</b>	<b>1</b>	<b>28</b>		- Acute Health - Chronic health			
		<u>State</u> Liquid	<u>Storage Container</u> Plastic Bottle or Jug		<u>Pressure</u> Ambient	<u>Waste Code</u>				
		<u>Type</u> Pure	<u>Days on Site</u> : 365		<u>Temperature</u> Ambient					

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org: <b>Alameda County General Services Agency</b> Facility Name: <b>County of Alameda GSA AlcoPark Garage</b> 165 13th St, Oakland 94612	Chemical Location: <b>Service Bay</b>	CERS ID: <b>10398013</b> Facility ID: Status: <b>Submitted on 3/10/2014 11:43 AM</b>
---	--	--

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
Irritant	<b>Aqua Works MPC Cleaning Solution (Non-RCRA Hazardous Waste Liquid)</b>	<b>Gallons</b>	<b>40</b>	<b>40</b>	32	120	- Chronic health	Sodium Carbonate	2 %	497-19-8
		<u>State</u>	<u>Storage Container</u>		<u>Pressure</u>	<u>Waste Code</u>		Linear Primary Alcohol Ehtyoxylate	2 %	68439-46-3
		Liquid	Steel Drum		Ambient	343		Fatty Acids, C9-C13 NEO	2 %	68938-07-8
		<u>Type</u>	<u>Waste</u>	Days on Site: 4	<u>Temperature</u>			2,2-Dimethyloctanoic Acid	2 %	26896-20-8
	<u>CAS No</u>									
Map: Figure 3 Grid: E4										

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org: <b>Alameda County General Services Agency</b>	Chemical Location: <b>Shop and Service Bays</b>	CERS ID: <b>10398013</b>
Facility Name: <b>County of Alameda GSA AlcoPark Garage</b>		Facility ID:
165 13th St, Oakland 94612		Status: <b>Submitted on 3/10/2014 11:43 AM</b>

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 3 - Flammable and Combustible Liquids	<b>Used Motor Oil (Non-RCRA Hazardous Waste Liquid)</b>	<b>Gallons</b>	<b>240</b>	<b>240</b>	80	500	- Fire	VARIOUS LUBRICATING BASE OILS	85 %	6474X-XX-X
		State: Liquid	Storage Container: Aboveground Tank, Steel Drum		Pressure: Ambient	Waste Code: 221		ADDITIVE PACKAGE, INCLUDING ZINC ALKYL DITHIOPHOSPHATE	15 %	MIXTURE 68649-42-3
Combustible Liquid, Class III-B	CAS No:	Type: Waste	Days on Site: 365							
	Map: Figure 3 Grid: H3, H6, J3									

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org: **Alameda County General Services Agency**  
 Facility Name: **County of Alameda GSA AlcoPark Garage**  
 165 13th St, Oakland 94612

Chemical Location:  
**Shop Area**

GERS ID: **10398013**  
 Facility ID:  
 Status: **Submitted on 3/10/2014 11:43 AM**

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
Combustible Liquid, Class III-B, Irritant	<b>Used Antifreeze (Non-RCRA Hazardous Waste Liquid)</b>	<b>Gallons</b>	<b>150</b>	<b>150</b>	30	140	- Acute Health - Chronic health	Ethylene Glycol	40 %	107-21-1
		<u>State</u>	<u>Storage Container</u>		<u>Pressure</u>	<u>Waste Code</u>	Diethylene Glycol	5 %	111-46-6	
		Liquid	Aboveground Tank		Ambient	135	Hydrated Inorganic Acid, Sodium Salt	5 %	Proprietary	
		<u>Type</u> Waste	Days on Site: 365		<u>Temperature</u> Ambient					
Irritant	<b>Wash and Wax</b>	<b>Gallons</b>	<b>32</b>	<b>32</b>	20	0	- Acute Health	Linear Dodecyl Benzene Sulfonate		25155-30-0
		<u>State</u>	<u>Storage Container</u>		<u>Pressure</u>	<u>Waste Code</u>	Bis (2-hydroxyethyl) Cocalkylamine		61719-31-9	
		Liquid	Plastic/Non-metalic Drum		Ambient		Monoethanolamine		1141-43-5	
		<u>Type</u> Mixture	Days on Site: 365		<u>Temperature</u> Ambient					
DOT: 3 - Flammable and Combustible Liquids Flammable Liquid, Class I-B, Irritant	<b>D15 - Tru Vue Glass Cleaner</b>	<b>Gallons</b>	<b>32</b>	<b>32</b>	20	0	- Fire - Acute Health - Chronic health	Isopropanol, 2-Propanol	10 %	67-63-0
		<u>State</u>	<u>Storage Container</u>		<u>Pressure</u>	<u>Waste Code</u>	2-Propanone	8 %	67-64-1	
		Liquid	Plastic/Non-metalic Drum		Ambient		Ethylene Glycol n-Butyl Ether	10 %	111-76-2	
		<u>Type</u> Mixture	Days on Site: 365		<u>Temperature</u> Ambient					
DOT: 9 - Misc. Hazardous Materials Irritant	<b>F15 - Wash &amp; Wax</b>	<b>Gallons</b>	<b>35</b>	<b>35</b>	18			Linear Dodecyl Benzene Sulfonate		25155-30-0
		<u>State</u>	<u>Storage Container</u>		<u>Pressure</u>	<u>Waste Code</u>	Cocamine Oxide		68955-55-5	
		Liquid	Plastic/Non-metalic Drum		Ambient		Monoethanolamine		141-43-5	
		<u>Type</u> Mixture	Days on Site: 365		<u>Temperature</u> Ambient					

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org: <b>Alameda County General Services Agency</b>	Chemical Location: <b>Storage Area</b>	CERS ID: <b>10398013</b>
Facility Name: <b>County of Alameda GSA AlcoPark Garage</b>		Facility ID:
165 13th St, Oakland 94612		Status: <b>Submitted on 3/10/2014 11:43 AM</b>

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 3 - Flammable and Combustible Liquids Combustible Liquid, Class II	<b>Waste Oily Contained Material (Non-RCRA Hazardous Waste Solid)</b>	<b>Pounds</b>	<b>300</b>	<b>300</b>	150	600	- Fire - Acute Health			
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>				
		Liquid	Plastic/Non-metallic Drum		Ambient	223				
		<u>Type</u>			<u>Temperature</u>					
		Waste	Days on Site: 365		Ambient					
	Map: Figure 3 Grid: F10									
DOT: 2.1 - Flammable Gases Flammable Gas	<b>Liquefied Petroleum Gas (lpg)</b>	<b>Cu. Feet</b>	<b>447</b>	<b>268</b>	228		- Fire - Pressure Release			
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>				
	74-98-6	Gas	Cylinder		> Ambient					
	Map: Figure 3 Grid: C8	<u>Type</u>			<u>Temperature</u>					
		Pure	Days on Site: 365		Ambient					



**ATTACHEMENT A**

**UNIFIED PROGRAM CONSOLIDATED FORM  
FACILITY INFORMATION  
BUSINESS ACTIVITIES**

**I. FACILITY IDENTIFICATION**

<b>FACILITY ID #</b>											1. EPA ID # (Hazardous)	2.
<b>BUSINESS NAME (Same as Facility Name or DBA - Doing Business As)</b>												3.
Oakland Fire Station # 12												

**II. ACTIVITIES DECLARATION**

**NOTE: If you check YES to any part of this list,  
please submit the Business Owner/Operator Identification page (OES Form 2730).**

Does your facility...	If Yes, please complete these pages of the UPCF...
<p><b>A. HAZARDOUS MATERIALS</b></p> <p>Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?</p>	<p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO 4. HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION (OES 2731)</p>
<p><b>B. UNDERGROUND STORAGE TANKS (USTs)</b></p> <p>1. Own or operate underground storage tanks?</p> <p>2. Intend to upgrade existing or install new USTs?</p> <p>3. Need to report closing a UST?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 5. UST FACILITY (Formerly SWRCB Form A) UST TANK (one page per tank) (Formerly Form B)</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 6. UST FACILITY UST TANK (one per tank) UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) (Formerly Form C)</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 7. UST TANK (closure portion – one page per tank)</p>
<p><b>C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs)</b></p> <p>Own or operate ASTs above these thresholds: ---any tank capacity is greater than 660 gallons, or ---the total capacity for the facility is greater than 1,320 gallons?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 8. NO FORM REQUIRED TO CUPAs</p>
<p><b>D. HAZARDOUS WASTE</b></p> <p>1. Generate hazardous waste?</p> <p>2. Recycle more than 100 kg/month of excluded or exempted recyclable materials (per H&amp;SC §25143.2)?</p> <p>3. Treat hazardous waste on site?</p> <p>4. Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?</p> <p>5. Consolidate hazardous waste generated at a remote site?</p> <p>6. Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 9. EPA ID NUMBER – provide at the top of this page</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 10. RECYCLABLE MATERIALS REPORT (one per recycler)</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 11. ONSITE HAZARDOUS WASTE TREATMENT – FACILITY (Formerly DTSC Forms 1772) ONSITE HAZARDOUS WASTE TREATMENT – UNIT (one page per unit) (Formerly DTSC Forms 1772 A, B, C, D and L)</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 12. CERTIFICATION OF FINANCIAL ASSURANCE (Formerly DTSC Form 1232)</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 13. REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION (Formerly DTSC Form 1196)</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 14. HAZARDOUS WASTE TANK CLOSURE CERTIFICATION (Formerly DTSC Form 1249)</p>
<p><b>E. LOCAL REQUIREMENTS</b></p> <p align="center">(You may also be required to provide additional information by your CUPA or local agency.)</p>	15.

**ATTACHMENT B**

**UNIFIED PROGRAM CONSOLIDATED FORM  
FACILITY INFORMATION  
BUSINESS OWNER/OPERATOR IDENTIFICATION**

**I. IDENTIFICATION**

FACILITY ID # <i>(Agency Use Only)</i>	1.	BEGINNING DATE	100.	ENDING DATE	101.
		March 15, 2008		March 15, 2011	
BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) City of Oakland Fire Station # 12	3.	BUSINESS PHONE	102.		
		510-893-4454			
BUSINESS SITE ADDRESS 822 Alice Street	103.				
CITY	104.	CA	ZIP CODE	105.	
Oakland			94607		
DUN & BRADSTREET Not Applicable: Public Agency	106.	SIC CODE (4 digit #)	107.		
		9224			
COUNTY Alameda	108.				
BUSINESS OPERATOR NAME City of Oakland- Fire Department, Capt. Robert Young	109.	BUSINESS OPERATOR PHONE	110.		
		510-238-4046			

**II. BUSINESS OWNER**

OWNER NAME City of Oakland-Public Works Municipal Buildings, Raul Godinez II, Agency Director	111.	OWNER PHONE	112.		
		510-238-3790			
OWNER MAILING ADDRESS 7101 Edgewater Drive	113.				
CITY	114.	STATE	115.	ZIP CODE	116.
Oakland		CA		94621	

**III. ENVIRONMENTAL CONTACT**

CONTACT NAME Nancy Humphrey, -Environmental Services	117.	CONTACT PHONE	118.		
		510-238-6259			
CONTACT MAILING ADDRESS 250 Frank Ogawa Plaza, Suite 5301	119.				
CITY	120.	STATE	121.	ZIP CODE	122.
Oakland		CA		94612	

**-PRIMARY-**

**IV. EMERGENCY CONTACTS**

**-SECONDARY-**

NAME Station Officer	123.	NAME On-Duty Chief	128.		
TITLE On-Duty Captain or Lieutenant	124.	TITLE Battalion Chief	129.		
BUSINESS PHONE 510 893-4454	125.	BUSINESS PHONE 510 238-4012	130.		
24-HOUR PHONE* 510 893-4454	126.	24-HOUR PHONE* 510 238-4012	131.		
PAGER # N/A	127.	PAGER # N/A	132.		

**ADDITIONAL LOCALLY COLLECTED INFORMATION:**

Property Owner: Same as Business Owner Phone No. Same as Business Owner  
Billing Address: Same as Business Owner

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER DESIGNATED REPRESENTATIVE	DATE	134.	NAME OF DOCUMENT PREPARER	135.
NAME OF SIGNER (print) Raul Godinez II	136.	TITLE OF SIGNER Building Services Mgr.	137.	
SIGNATURE OF OPERATOR DESIGNATED REPRESENTATIVE	DATE	134.	NAME OF DOCUMENT PREPARER	135.
NAME OF SIGNER (print) Capt. Robert Young	136.	TITLE OF SIGNER.	137.	

**ATTACHMENT C**

Date: 3/15/2008

**Non-Waste Hazardous Materials Inventory Statement**  
 For use by Unidocs Member Agencies or where approved by your Local Jurisdiction

Page 1

<b>Business Name: City of Oakland Fire Station #12</b> (Same as Facility Name or DBA)						<b>Type of Report on This Page:</b> No change from previous report			<b>Page 1 of 1</b> (One page per building or area)											
<b>Chemical Location 855 Alice Street</b> Oakland, CA 94607 (Building/Storage Area)				<b>EPCRA Confidential Location?</b> <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No		<b>Trade Secret Information?</b> <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No		<b>Facility ID #</b> (Agency Use Only)												
1. Haz. Class	2. Map and Grid or Location Code	3. Common Name	4. Hazardous Components (For mixtures only)				5. Type and Physical State	6. Quantities			7. Units	8. Storage Codes		9. Hazard Categories						
								Max. Daily	Average Daily	Largest Container		Storage Pressure	Storage Temp.							
3		Diesel Fuel	Cumene	<input type="checkbox"/>	Benzene	<input type="checkbox"/>	<input type="checkbox"/> pure <input checked="" type="checkbox"/> mixture	565	565	500	<input checked="" type="checkbox"/> gallons <input type="checkbox"/> pounds <input type="checkbox"/> cu. feet <input type="checkbox"/> tons	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb.A	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. <input type="checkbox"/> cryogenic	<input checked="" type="checkbox"/> fire <input type="checkbox"/> reactive <input type="checkbox"/> pressure release <input type="checkbox"/> acute health <input type="checkbox"/> chronic health <input type="checkbox"/> radioactive						
				<input type="checkbox"/>		<input type="checkbox"/>									<input type="checkbox"/> solid <input checked="" type="checkbox"/> liquid <input type="checkbox"/> gas	Curies: (If radioactive)	Days On Site: 365	Storage Container: A		
		<b>CAS No.</b> 00169-00-0	98-82-8	<input type="checkbox"/>	71-43-2	<input type="checkbox"/>														
		<input type="checkbox"/> EHS		<input type="checkbox"/>		<input type="checkbox"/>														

- |             |                      |             |                           |             |                     |             |                     |             |                       |
|-------------|----------------------|-------------|---------------------------|-------------|---------------------|-------------|---------------------|-------------|-----------------------|
| <b>Code</b> | <b>Storage Type</b>  | <b>Code</b> | <b>Storage Type</b>       | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b>   |
| A           | Aboveground Tank     | D           | Steel Drum                | G           | Carboy              | J           | Bag                 | M           | Glass Bottle or Jug   |
| B           | Belowground Tank     | E           | Plastic/Non-metallic Drum | H           | Silo                | K           | Box                 | N           | Plastic Bottle or Jug |
| C           | Tank Inside Building | F           | Can                       | I           | Fiber Drum          | L           | Cylinder            | O           | Tote Bin              |
|             |                      |             |                           |             |                     |             |                     | P           | Tank Wagon            |
|             |                      |             |                           |             |                     |             |                     | Q           | Rail Car              |
|             |                      |             |                           |             |                     |             |                     | R           | Other                 |

**If EPCRA, sign below:**

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Date: 3/15/2008

## Non-Waste Hazardous Materials Inventory Statement

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Page 2

<b>Business Name: City of Oakland Fire Station #12</b> (Same as Facility Name or DBA)						<b>Type of Report on This Page:</b> No change from previous report			<b>Page 1 of 1</b> (One page per building or area)				
<b>Chemical Location 855 Alice Street</b> <b>Oakland, CA 94607</b> (Building/Storage Area)				<b>EPCRA Confidential Location?</b> <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No		<b>Trade Secret Information?</b> <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No			<b>Facility ID #</b> (Agency Use Only)				
1.	2.	3.	4.			5.	6.			7.	8.		9.
<b>Haz. Class</b>	<b>Map and Grid or Location Code</b>	<b>Common Name</b>	<b>Hazardous Components (For mixtures only)</b>			<b>Type and Physical State</b>	<b>Max. Daily</b>	<b>Average Daily</b>	<b>Largest Container</b>	<b>Units</b>	<b>Storage Pressure</b>	<b>Storage Temp.</b>	<b>Hazard Categories</b>
3		Spray Paint	Naphtha	<input type="checkbox"/>	Acetone	<input type="checkbox"/> pure <input checked="" type="checkbox"/> mixture	1	1	1 pint	<input checked="" type="checkbox"/> gallons <input type="checkbox"/> pounds <input type="checkbox"/> cu. feet <input type="checkbox"/> tons	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb-A	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. <input type="checkbox"/> cryogenic	<input checked="" type="checkbox"/> fire <input type="checkbox"/> reactive <input checked="" type="checkbox"/> pressure release <input type="checkbox"/> acute health <input type="checkbox"/> chronic health <input type="checkbox"/> radioactive
			Propanol	<input type="checkbox"/>	1 Propyl Acetate								
			Propane	<input type="checkbox"/>	Toluene	<input type="checkbox"/> solid <input checked="" type="checkbox"/> liquid <input type="checkbox"/> gas	<b>Curies:</b> (If radioactive)	<b>Days On Site:</b> 365	<b>Storage Container:</b> : R <b>Spray Cans</b>				
		<u>CAS No.</u>	8032-32-4	<input type="checkbox"/>	67-64-1								
		<input type="checkbox"/> EHS	79-83-1	<input type="checkbox"/>	119-19-0								
			74-98-6	<input type="checkbox"/>	108-88-3								

- |             |                      |             |                           |             |                     |             |                     |             |                       |             |                     |
|-------------|----------------------|-------------|---------------------------|-------------|---------------------|-------------|---------------------|-------------|-----------------------|-------------|---------------------|
| <b>Code</b> | <b>Storage Type</b>  | <b>Code</b> | <b>Storage Type</b>       | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b>   | <b>Code</b> | <b>Storage Type</b> |
| A           | Aboveground Tank     | D           | Steel Drum                | G           | Carboy              | J           | Bag                 | M           | Glass Bottle or Jug   | P           | Tank Wagon          |
| B           | Belowground Tank     | E           | Plastic/Non-metallic Drum | H           | Silo                | K           | Box                 | N           | Plastic Bottle or Jug | Q           | Rail Car            |
| C           | Tank Inside Building | F           | Can                       | I           | Fiber Drum          | L           | Cylinder            | O           | Tote Bin              | R           | Other               |

If EPCRA, sign below:

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## Non-Waste Hazardous Materials Inventory Statement

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Page 3

<b>Business Name: City of Oakland Fire Station #12</b> (Same as Facility Name or DBA)						<b>Type of Report on This Page:</b> No change from previous report			<b>Page 1 of 1</b> (One page per building or area)				
<b>Chemical Location 855 Alice Street</b> <b>Oakland, CA 94607</b> (Building/Storage Area)				<b>EPCRA Confidential Location?</b> <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No		<b>Trade Secret Information?</b> <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No			<b>Facility ID #</b> (Agency Use Only)				
<b>1.</b>	<b>2.</b>	<b>3.</b>	<b>4.</b>			<b>5.</b>	<b>6.</b>			<b>7.</b>	<b>8.</b>		<b>9.</b>
<b>Haz. Class</b>	<b>Map and Grid or Location Code</b>	<b>Common Name</b>	<b>Hazardous Components (For mixtures only)</b>			<b>Type and Physical State</b>	<b>Max. Daily</b>	<b>Average Daily</b>	<b>Largest Container</b>	<b>Units</b>	<b>Storage Pressure</b>	<b>Storage Temp.</b>	<b>Hazard Categories</b>
3		Oil-based paint	Solvent naphtha	<input type="checkbox"/>	Xylene	<input type="checkbox"/> pure <input checked="" type="checkbox"/> mixture	3	3	1	<input checked="" type="checkbox"/> gallons <input type="checkbox"/> pounds <input type="checkbox"/> cu feet <input type="checkbox"/> tons	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. <input type="checkbox"/> < amb A	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. <input type="checkbox"/> eryogenic	<input checked="" type="checkbox"/> fire <input type="checkbox"/> reactive <input type="checkbox"/> pressure release <input type="checkbox"/> acute health <input type="checkbox"/> chronic health <input type="checkbox"/> radioactive
			Silica, Crystalline-Quartz	<input type="checkbox"/>	Carbon black	<input type="checkbox"/> solid <input checked="" type="checkbox"/> liquid <input type="checkbox"/> gas	Curies: (If radioactive)	Days On Site: 365	Storage Container R Metal can				
		<u>CAS No.</u>	64742-88-7	<input type="checkbox"/>	1330-20-7								
		<input type="checkbox"/> EHS	14808-60-7	<input type="checkbox"/>	1333-86-4								
				<input type="checkbox"/>									

<b>Code</b>	<b>Storage Type</b>	<b>Code</b>	<b>Storage Type</b>	<b>Code</b>	<b>Storage Type</b>	<b>Code</b>	<b>Storage Type</b>	<b>Code</b>	<b>Storage Type</b>	<b>Code</b>	<b>Storage Type</b>
A	Aboveground Tank	D	Steel Drum	G	Carboy	J	Bag	M	Glass Bottle or Jug	P	Tank Wagon
B	Belowground Tank	E	Plastic/Non-metallic Drum	H	Silo	K	Box	N	Plastic Bottle or Jug	Q	Rail Car
C	Tank Inside Building	F	Can	I	Fiber Drum	L	Cylinder	O	Tote Bin	R	Other

If EPCRA, sign below:

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Date: 3/15/2008

## Non-Waste Hazardous Materials Inventory Statement

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Page 4

<b>Business Name:</b> City of Oakland Fire Station #12 (Same as Facility Name or DBA)				<b>Type of Report on This Page:</b> No change from previous report				<b>Page 1 of 1</b> (One page per building or area)					
<b>Chemical Location</b> 855 Alice Street Oakland, CA 94607 (Building/Storage Area)			<b>EPCRA Confidential Location?</b> <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No		<b>Trade Secret Information?</b> <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No		<b>Facility ID #</b> (Agency Use Only)						
1.	2.	3.	4.		5.	6.			7.	8.		9.	
Haz. Class	Map and Grid or Location Code	Common Name	Hazardous Components (For mixtures only)		Type and Physical State	Quantities			Units	Storage Codes		Hazard Categories	
						Max. Daily	Average Daily	Largest Container		Storage Pressure	Storage Temp.		
3		Mineral Spirits (Stoddard Solvent)	<input type="checkbox"/>		<input checked="" type="checkbox"/> pure <input type="checkbox"/> mixture	2	2	1/4	<input checked="" type="checkbox"/> gallons <input type="checkbox"/> pounds <input type="checkbox"/> cu. feet <input type="checkbox"/> tons	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb.A	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. <input type="checkbox"/> cryogenic	<input checked="" type="checkbox"/> fire <input type="checkbox"/> reactive <input type="checkbox"/> pressure release <input type="checkbox"/> acute health <input type="checkbox"/> chronic health <input type="checkbox"/> radioactive	
			<input type="checkbox"/>			<input type="checkbox"/> solid <input checked="" type="checkbox"/> liquid <input type="checkbox"/> gas	<b>Curies:</b> (If radioactive)	<b>Days On Site:</b> 365					<b>Storage Container:</b> R Metal Can
			<input type="checkbox"/>										
			<input type="checkbox"/>										
			<input type="checkbox"/>										
		CAS No. 8052-41-3 <input type="checkbox"/> EHS	<input type="checkbox"/>										

- |             |                      |             |                           |             |                     |             |                     |             |                       |             |                     |
|-------------|----------------------|-------------|---------------------------|-------------|---------------------|-------------|---------------------|-------------|-----------------------|-------------|---------------------|
| <b>Code</b> | <b>Storage Type</b>  | <b>Code</b> | <b>Storage Type</b>       | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b>   | <b>Code</b> | <b>Storage Type</b> |
| A           | Aboveground Tank     | D           | Steel Drum                | G           | Carboy              | J           | Bag                 | M           | Glass Bottle or Jug   | P           | Tank Wagon          |
| B           | Belowground Tank     | E           | Plastic/Non-metallic Drum | H           | Silo                | K           | Box                 | N           | Plastic Bottle or Jug | Q           | Rail Car            |
| C           | Tank Inside Building | F           | Can                       | I           | Fiber Drum          | L           | Cylinder            | O           | Tote Bin              | R           | Other               |

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## Non-Waste Hazardous Materials Inventory Statement

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Page 5

Business Name: City of Oakland Fire Station #12 (Same as Facility Name or DBA)						Type of Report on This Page: No change from previous report				Page 1 of 1 (One page per building or area)										
Chemical Location 855 Alice Street Oakland, CA 94607 (Building/Storage Area)			EPCRA Confidential Location? <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No Trade Secret Information? <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No			Facility ID # (Agency Use Only)														
1.	2.	3.	4.			5.	6.			7.	8.		9.							
Haz. Class	Map and Grid or Location Code	Common Name	Hazardous Components (For mixtures only)			Type and Physical State	Quantities			Units	Storage Codes		Hazard Categories							
							Max. Daily	Average Daily	Largest Container		Storage Pressure	Storage Temp.								
3		WD-40	Stodard solvent	<input type="checkbox"/>	Liquefied petroleum gas (LPG)	<input type="checkbox"/> pure <input checked="" type="checkbox"/> mixture  <input type="checkbox"/> solid <input checked="" type="checkbox"/> liquid <input type="checkbox"/> gas	24 oz	24 oz	8oz	<input type="checkbox"/> gallons <input type="checkbox"/> pounds <input type="checkbox"/> cu. feet <input type="checkbox"/> tons	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb.A	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. <input type="checkbox"/> cryogenic	<input checked="" type="checkbox"/> fire <input type="checkbox"/> reactive <input type="checkbox"/> pressure release <input type="checkbox"/> acute health <input type="checkbox"/> chronic health <input type="checkbox"/> radioactive							
			Petroleum base oil;	<input type="checkbox"/>																
		<u>CAS No.</u>		8052-41-3	<input type="checkbox"/>		68476-85-7	Curies: (If radioactive)  Days On Site: 365  Storage Container: R Metal cans												
		<input type="checkbox"/> EHS		64742-65-0	<input type="checkbox"/>															
					<input type="checkbox"/>															

- |             |                      |             |                           |             |                     |             |                     |             |                       |             |                     |
|-------------|----------------------|-------------|---------------------------|-------------|---------------------|-------------|---------------------|-------------|-----------------------|-------------|---------------------|
| <b>Code</b> | <b>Storage Type</b>  | <b>Code</b> | <b>Storage Type</b>       | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b>   | <b>Code</b> | <b>Storage Type</b> |
| A           | Aboveground Tank     | D           | Steel Drum                | G           | Carboy              | J           | Bag                 | M           | Glass Bottle or Jug   | P           | Tank Wagon          |
| B           | Belowground Tank     | E           | Plastic/Non-metallic Drum | H           | Silo                | K           | Box                 | N           | Plastic Bottle or Jug | Q           | Rail Car            |
| C           | Tank Inside Building | F           | Can                       | I           | Fiber Drum          | L           | Cylinder            | O           | Tote Bin              | R           | Other               |

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## Non-Waste Hazardous Materials Inventory Statement

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Page 6

<b>Business Name: City of Oakland Fire Station #12</b> (Same as Facility Name or DBA)					<b>Type of Report on This Page:</b> No change from previous report					Page 1 of 1 (One page per building or area)				
<b>Chemical Location 855 Alice Street</b> <b>Oakland, CA 94607</b> (Building/Storage Area)			<b>EPCRA Confidential Location?</b> <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No <b>Trade Secret Information?</b> <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No		<b>Facility ID #</b> (Agency Use Only)									
1.	2.	3.	4.		5.	6.			7.	8.		9.		
Haz. Class	Map and Grid or Location Code	Common Name	Hazardous Components (For mixtures only)		Type and Physical State	Quantities			Units	Storage Codes		Hazard Categories		
						Max. Daily	Average Daily	Largest Container		Storage Pressure	Storage Temp.			
3		<b>Lacquer Thinner</b>  <b>CAS No.</b> <b>00169-00-0</b>  <input type="checkbox"/> EHS	Acetone, dimethyl ketone; 2-propanone	<input type="checkbox"/>	Ethyl Acetate	<input type="checkbox"/> pure <input checked="" type="checkbox"/> mixture	2	2	1 pint	<input checked="" type="checkbox"/> gallons <input type="checkbox"/> pounds <input type="checkbox"/> cu. feet <input type="checkbox"/> tons	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. <input type="checkbox"/> < amb.A	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. <input type="checkbox"/> cryogenic	<input checked="" type="checkbox"/> fire <input type="checkbox"/> reactive <input type="checkbox"/> pressure release <input type="checkbox"/> acute health <input type="checkbox"/> chronic health <input type="checkbox"/> radioactive	
			Isopropanol, 2-propanol, dimethyl carbinol	<input type="checkbox"/>	V M & P Naphtha									
			Toluene	<input type="checkbox"/>	2-butoxyethanol	<input type="checkbox"/> solid <input checked="" type="checkbox"/> liquid <input type="checkbox"/> gas	Curies: (if radioactive)	Days On Site: 365	Storage Container: R Metal cans					
			67-64-1	<input type="checkbox"/>	141-78-6									
			67-63-0	<input type="checkbox"/>	64742-89-8									
			XS5250000	<input type="checkbox"/>	111-76-2									

- |        |                      |      |                           |      |              |      |              |      |                       |
|--------|----------------------|------|---------------------------|------|--------------|------|--------------|------|-----------------------|
| * Code | Storage Type         | Code | Storage Type              | Code | Storage Type | Code | Storage Type | Code | Storage Type          |
| A      | Aboveground Tank     | D    | Steel Drum                | G    | Carboy       | J    | Bag          | M    | Glass Bottle or Jug   |
| B      | Belowground Tank     | E    | Plastic/Non-metallic Drum | H    | Silo         | K    | Box          | N    | Plastic Bottle or Jug |
| C      | Tank Inside Building | F    | Can                       | I    | Fiber Drum   | L    | Cylinder     | O    | Tote Bin              |
|        |                      |      |                           |      |              |      |              | P    | Tank Wagon            |
|        |                      |      |                           |      |              |      |              | Q    | Rail Car              |
|        |                      |      |                           |      |              |      |              | R    | Other                 |

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## Non-Waste Hazardous Materials Inventory Statement

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Page 7

<b>Business Name: City of Oakland Fire Station #12</b> (Same as Facility Name or DBA)						<b>Type of Report on This Page:</b> No change from previous report				<b>Page 1 of 1</b> (One page per building or area)					
<b>Chemical Location 855 Alice Street</b> <b>Oakland, CA 94607</b> (Building/Storage Area)			<b>EPCRA Confidential Location?</b> <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No <b>Trade Secret Information?</b> <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No		<b>Facility ID #</b> (Agency Use Only)										
1. Haz. Class	2. Map and Grid or Location Code	3. Common Name	4. Hazardous Components (For mixtures only)		5. Type and Physical State	6. Quantities			7. Units	8. Storage Codes		9. Hazard Categories			
						Max. Daily	Average Daily	Largest Container		Storage Pressure	Storage Temp.				
3		<b>Paint thinner</b>	Mineral Spirits	<input type="checkbox"/>	Nonane	<input type="checkbox"/> pure <input checked="" type="checkbox"/> mixture  <input type="checkbox"/> solid <input checked="" type="checkbox"/> liquid <input type="checkbox"/> gas	3	3	1 pint	<input checked="" type="checkbox"/> gallons <input type="checkbox"/> pounds <input type="checkbox"/> cu. feet <input type="checkbox"/> tons	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. <input type="checkbox"/> < amb.A	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. <input type="checkbox"/> cryogenic	<input checked="" type="checkbox"/> fire <input type="checkbox"/> reactive <input type="checkbox"/> pressure release <input type="checkbox"/> acute health <input type="checkbox"/> chronic health <input type="checkbox"/> radioactive		
			Octane	<input type="checkbox"/>	1,2,4-trimethylbenzene		Curies: (If radioactive)	Days On Site: 365	Storage Container: R Metal cans						
			<b>CAS No.</b>		8052-41-3		<input type="checkbox"/>	111-84-2							
			<input type="checkbox"/> EHS		111-65-9		<input type="checkbox"/>	95-63-6							
							<input type="checkbox"/>								

<b>Code</b>	<b>Storage Type</b>	<b>Code</b>	<b>Storage Type</b>	<b>Code</b>	<b>Storage Type</b>	<b>Code</b>	<b>Storage Type</b>	<b>Code</b>	<b>Storage Type</b>
A	Aboveground Tank	D	Steel Drum	G	Carboy	J	Bag	M	Glass Bottle or Jug
B	Belowground Tank	E	Plastic/Non-metallic Drum	H	Silo	K	Box	N	Plastic Bottle or Jug
C	Tank Inside Building	F	Can	I	Fiber Drum	L	Cylinder	O	Tote Bin
								P	Tank Wagon
								Q	Rail Car
								R	Other

If EPCRA, sign below:

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## Non-Waste Hazardous Materials Inventory Statement

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Page 8

<b>Business Name: City of Oakland Fire Station #12</b> (Same as Facility Name or DBA)				<b>Type of Report on This Page:</b> No change from previous report				<b>Page 1 of 1</b> (One page per building or area)								
<b>Chemical Location 855 Alice Street</b> <b>Oakland, CA 94607</b> (Building/Storage Area)			<b>EPCRA Confidential Location?</b> <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No <b>Trade Secret Information?</b> <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No		<b>Facility ID #</b> (Agency Use Only)											
1.	2.	3.	4.			5.			6.			7.		8.		9.
Haz. Class	Map and Grid or Location Code	Common Name	Hazardous Components (For mixtures only)			Type and Physical State			Quantities			Units	Storage Codes		Hazard Categories	
										Max. Daily	Average Daily		Largest Container	Storage Pressure		Storage Temp.
3		Fusee (flare)	Strontium nitrate	<input type="checkbox"/>	Potassium perchlorate	<input type="checkbox"/> pure <input checked="" type="checkbox"/> mixture			42	42	42	<input type="checkbox"/> gallons <input checked="" type="checkbox"/> pounds <input type="checkbox"/> cu. feet <input type="checkbox"/> tons	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb.A	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. <input type="checkbox"/> cryogenic	<input checked="" type="checkbox"/> fire <input type="checkbox"/> reactive <input type="checkbox"/> pressure release <input type="checkbox"/> acute health <input type="checkbox"/> chronic health <input type="checkbox"/> radioactive	
				<input type="checkbox"/>		<input checked="" type="checkbox"/> solid <input type="checkbox"/> liquid <input type="checkbox"/> gas			Curies: (If radioactive)	Days On Site: 365	Storage Containers: R Metal lockers					
			<b>CAS No.</b>		10042-76-9	<input type="checkbox"/>	7778-74-7									
			<input type="checkbox"/> EHS			<input type="checkbox"/>										
				<input type="checkbox"/>												
	<input type="checkbox"/>															

- |             |                      |             |                           |             |                     |             |                     |             |                       |
|-------------|----------------------|-------------|---------------------------|-------------|---------------------|-------------|---------------------|-------------|-----------------------|
| <b>Code</b> | <b>Storage Type</b>  | <b>Code</b> | <b>Storage Type</b>       | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b>   |
| A           | Aboveground Tank     | D           | Steel Drum                | G           | Carboy              | J           | Bag                 | M           | Glass Bottle or Jug   |
| B           | Belowground Tank     | E           | Plastic/Non-metallic Drum | H           | Silo                | K           | Box                 | N           | Plastic Bottle or Jug |
| C           | Tank Inside Building | F           | Can                       | I           | Fiber Drum          | L           | Cylinder            | O           | Tote Bin              |
|             |                      |             |                           |             |                     |             |                     | P           | Tank Wagon            |
|             |                      |             |                           |             |                     |             |                     | Q           | Rail Car              |
|             |                      |             |                           |             |                     |             |                     | R           | Other                 |

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## Non-Waste Hazardous Materials Inventory Statement

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Page 9

<b>Business Name: City of Oakland Fire Station #12</b> (Same as Facility Name or DBA)						<b>Type of Report on This Page:</b> No change from previous report				Page 1 of 1 (One page per building or area)			
<b>Chemical Location 855 Alice Street</b> <b>Oakland, CA 94607</b> (Building/Storage Area)				<b>EPCRA Confidential Location?</b> <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No <b>Trade Secret Information?</b> <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No		<b>Facility ID #</b> (Agency Use Only)				[Empty grid for tracking]			
1.	2.	3.	4.		5.	6.			7.	8.		9.	
Haz. Class	Map and Grid or Location Code	Common Name	Hazardous Components (For mixtures only)		Type and Physical State	Quantities			Units	Storage Codes		Hazard Categories	
			Nitrogen gas (76.5 - 80.5%)	Oxygen gas (19.5 - 23.5%)		Max. Daily	Average Daily	Largest Container		Storage Pressure	Storage Temp.		
		Compressed Air	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> mixture	135	135	45	<input type="checkbox"/> gallons <input type="checkbox"/> pounds <input checked="" type="checkbox"/> cu. feet <input type="checkbox"/> tons	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb.A	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. <input type="checkbox"/> cryogenic	<input type="checkbox"/> fire <input type="checkbox"/> reactive <input checked="" type="checkbox"/> pressure release <input type="checkbox"/> acute health <input type="checkbox"/> chronic health <input type="checkbox"/> radioactive	
			<input type="checkbox"/>		<input type="checkbox"/> solid <input type="checkbox"/> liquid <input checked="" type="checkbox"/> gas	Curies: (If radioactive)	Days On Site: 365	Storage Container L					
		CAS No. 132259-10-0 <input type="checkbox"/> EHS	7727-37-9	7782-44-7									
			<input type="checkbox"/>										

- |             |                      |             |                           |             |                     |             |                     |             |                       |
|-------------|----------------------|-------------|---------------------------|-------------|---------------------|-------------|---------------------|-------------|-----------------------|
| <b>Code</b> | <b>Storage Type</b>  | <b>Code</b> | <b>Storage Type</b>       | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b>   |
| A           | Aboveground Tank     | D           | Steel Drum                | G           | Carboy              | J           | Bag                 | M           | Glass Bottle or Jug   |
| B           | Belowground Tank     | E           | Plastic/Non-metallic Drum | H           | Silo                | K           | Box                 | N           | Plastic Bottle or Jug |
| C           | Tank Inside Building | F           | Can.                      | I           | Fiber Drum          | L           | Cylinder            | O           | Tote Bin              |
|             |                      |             |                           |             |                     |             |                     | P           | Tank Wagon            |
|             |                      |             |                           |             |                     |             |                     | Q           | Rail Car              |
|             |                      |             |                           |             |                     |             |                     | R           | Other                 |

If EPCRA, sign below:

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Date: 3/15/2008

## Non-Waste Hazardous Materials Inventory Statement

For use by Unidocs Member Agencies or where approved by your Local Jurisdiction

Page 10

Business Name: City of Oakland Fire Station #12 (Same as Facility Name or DBA)					Type of Report on This Page: No change from previous report					Page 1 of 1 (One page per building or area)				
Chemical Location 855 Alice Street Oakland, CA 94607 (Building/Storage Area)			EPCRA Confidential Location? <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No Trade Secret Information? <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No		Facility ID # (Agency Use Only)									
1.	2.	3.	4.			5.	6.			7.	8.			9.
Haz. Class	Map and Grid or Location Code	Common Name	Hazardous Components (For mixtures only)			Type and Physical State	Quantities			Units	Storage Codes		Hazard Categories	
							Max. Daily	Average Daily	Largest Container		Storage Pressure	Storage Temp.		
2		Oxygen	<input type="checkbox"/>			<input checked="" type="checkbox"/> pure <input type="checkbox"/> mixture	90	90	70	<input type="checkbox"/> gallons <input type="checkbox"/> pounds <input checked="" type="checkbox"/> cu feet <input type="checkbox"/> tons	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb.A	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. <input type="checkbox"/> cryogenic	<input checked="" type="checkbox"/> fire <input type="checkbox"/> reactive <input checked="" type="checkbox"/> pressure release <input type="checkbox"/> acute health <input type="checkbox"/> chronic health <input type="checkbox"/> radioactive	
			<input type="checkbox"/>				<input type="checkbox"/> solid <input type="checkbox"/> liquid <input checked="" type="checkbox"/> gas	Curies: (If radioactive)	Days On Site: 365					Storage Container: L
			<input type="checkbox"/>											
			<input type="checkbox"/>											
			<input type="checkbox"/>											
		CAS No. 7782-55-7 <input type="checkbox"/> EHS	<input type="checkbox"/>											

- |             |                      |             |                           |             |                     |             |                     |             |                       |             |                     |
|-------------|----------------------|-------------|---------------------------|-------------|---------------------|-------------|---------------------|-------------|-----------------------|-------------|---------------------|
| <b>Code</b> | <b>Storage Type</b>  | <b>Code</b> | <b>Storage Type</b>       | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b>   | <b>Code</b> | <b>Storage Type</b> |
| A           | Aboveground Tank     | D           | Steel Drum                | G           | Carboy              | J           | Bag                 | M           | Glass Bottle or Jug   | P           | Tank Wagon          |
| B           | Belowground Tank     | E           | Plastic/Non-metallic Drum | H           | Silo                | K           | Box                 | N           | Plastic Bottle or Jug | Q           | Rail Car            |
| C           | Tank Inside Building | F           | Can                       | I           | Fiber Drum          | L           | Cylinder            | O           | Tote Bin              | R           | Other               |

If EPCRA, sign below:

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Date: 3/15/2008

## Non-Waste Hazardous Materials Inventory Statement

*For use by Unidocs Member Agencies or where approved by your Local Jurisdiction*

Page 11

<b>Business Name: City of Oakland Fire Station #12</b> (Same as Facility Name or DBA)						<b>Type of Report on This Page:</b> No change from previous report				<b>Page 1 of 1</b> (One page per building or area)				
<b>Chemical Location 855 Alice Street</b> Oakland, CA 94607 (Building/Storage Area)			<b>EPCRA Confidential Location?</b> <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No <b>Trade Secret Information?</b> <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No			<b>Facility ID #</b> (Agency Use Only)								
1.	2.	3.	4.			5.	6.			7.	8.		9.	
Haz. Class	Map and Grid or Location Code	Common Name	Hazardous Components (For mixtures only)			Type and Physical State	Quantities			Units	Storage Codes		Hazard Categories	
							Max. Daily	Average Daily	Largest Container		Storage Pressure	Storage Temp.		
2		Acetylene	<input type="checkbox"/>			<input checked="" type="checkbox"/> pure <input type="checkbox"/> mixture	60	60	60	<input type="checkbox"/> gallons <input type="checkbox"/> pounds <input checked="" type="checkbox"/> cu feet <input type="checkbox"/> tons	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. A	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. <input type="checkbox"/> cryogenic	<input checked="" type="checkbox"/> fire <input type="checkbox"/> reactive <input checked="" type="checkbox"/> pressure release <input type="checkbox"/> acute health <input type="checkbox"/> chronic health <input type="checkbox"/> radioactive	
			<input type="checkbox"/>				<input type="checkbox"/> solid <input type="checkbox"/> liquid <input checked="" type="checkbox"/> gas	Curies: (If radioactive)	Days On Site: 365					Storage Container: L
			<input type="checkbox"/>											
			<input type="checkbox"/>											
			<input type="checkbox"/>											
		CAS No. 74-86-2 <input type="checkbox"/> EHS	<input type="checkbox"/>											

- |             |                      |             |                           |             |                     |             |                     |             |                       |             |                     |
|-------------|----------------------|-------------|---------------------------|-------------|---------------------|-------------|---------------------|-------------|-----------------------|-------------|---------------------|
| <b>Code</b> | <b>Storage Type</b>  | <b>Code</b> | <b>Storage Type</b>       | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b>   | <b>Code</b> | <b>Storage Type</b> |
| A           | Aboveground Tank     | D           | Steel Drum                | G           | Carboy              | J           | Bag                 | M           | Glass Bottle or Jug   | P           | Tank Wagon          |
| B           | Belowground Tank     | E           | Plastic/Non-metallic Drum | H           | Silo                | K           | Box                 | N           | Plastic Bottle or Jug | Q           | Rail Car            |
| C           | Tank Inside Building | F           | Can                       | I           | Fiber Drum          | L           | Cylinder            | O           | Tote Bin              | R           | Other               |

**If EPCRA, sign below:**

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Date: 3/15/2008

## Non-Waste Hazardous Materials Inventory Statement

For use by Unidocs Member Agencies or where approved by your Local Jurisdiction

Page 12

Business Name: City of Oakland Fire Station #12 (Same as Facility Name or DBA)					Type of Report on This Page: No change from previous report					Page 1 of 1 (One page per building or area)				
Chemical Location 855 Alice Street Oakland, CA 94607 (Building/Storage Area)			EPCRA Confidential Location? <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No Trade Secret Information? <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No		Facility ID # (Agency Use Only)									
1.	2.	3.	4.			5.	6.			7.	8.			9.
Haz. Class	Map and Grid or Location Code	Common Name	Hazardous Components (For mixtures only)			Type and Physical State	Quantities			Units	Storage Codes		Hazard Categories	
			Max. Daily	Average Daily	Largest Container		Storage Pressure	Storage Temp.						
8		Sanisol disinfectant	Ammonia	<input type="checkbox"/>		<input type="checkbox"/> pure <input checked="" type="checkbox"/> mixture  <input type="checkbox"/> solid <input checked="" type="checkbox"/> liquid <input type="checkbox"/> gas	2	2	1	<input checked="" type="checkbox"/> gallons <input type="checkbox"/> pounds <input type="checkbox"/> cu. feet <input type="checkbox"/> tons	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb.A	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. <input type="checkbox"/> cryogenic	<input type="checkbox"/> fire <input checked="" type="checkbox"/> reactive <input type="checkbox"/> pressure release <input checked="" type="checkbox"/> acute health <input type="checkbox"/> chronic health <input type="checkbox"/> radioactive	
				<input type="checkbox"/>			Curies: (If radioactive)	Days On Site: 365	Storage Container: N					
				<input type="checkbox"/>										
			CAS No.	7664-41-7	<input type="checkbox"/>									
		<input type="checkbox"/> EHS		<input type="checkbox"/>										

<b>Code</b>	<b>Storage Type</b>	<b>Code</b>	<b>Storage Type</b>	<b>Code</b>	<b>Storage Type</b>	<b>Code</b>	<b>Storage Type</b>	<b>Code</b>	<b>Storage Type</b>
A	Aboveground Tank	D	Steel Drum	G	Carboy	J	Bag	M	Glass Bottle or Jug
B	Belowground Tank	E	Plastic/Non-metallic Drum	H	Silo	K	Box	N	Plastic Bottle or Jug
C	Tank Inside Building	F	Can	I	Fiber Drum	L	Cylinder	O	Tote Bin
								P	Tank Wagon
								Q	Rail Car
								R	Other

If EPCRA, sign below:

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Date: 3/15/2008

## Non-Waste Hazardous Materials Inventory Statement

For use by Unidocs Member Agencies or where approved by your Local Jurisdiction

Page 13

Business Name: City of Oakland Fire Station #12 (Same as Facility Name or DBA)						Type of Report on This Page: No change from previous report			Page 1 of 1 (One page per building or area)				
Chemical Location 855 Alice Street Oakland, CA 94607 (Building/Storage Area)				EPCRA Confidential Location? <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No Trade Secret Information? <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No		Facility ID # (Agency Use Only)							
1. Haz. Class	2. Map and Grid or Location Code	3. Common Name	4. Hazardous Components (For mixtures only)		5. Type and Physical State	6. Quantities			7. Units	8. Storage Codes		9. Hazard Categories	
						Max. Daily	Average Daily	Largest Container		Storage Pressure	Storage Temp.		
8		Oven Cleaner	Diethylene glycol	<input type="checkbox"/>	Potassium hydroxide	<input type="checkbox"/> pure	1	1	18 oz	<input checked="" type="checkbox"/> gallons <input type="checkbox"/> pounds <input type="checkbox"/> cu. feet <input type="checkbox"/> tons	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb.A	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. <input type="checkbox"/> cryogenic	<input checked="" type="checkbox"/> fire <input checked="" type="checkbox"/> reactive <input checked="" type="checkbox"/> pressure release <input type="checkbox"/> acute health <input type="checkbox"/> chronic health <input type="checkbox"/> radioactive
			monoethyl ether	<input type="checkbox"/>		<input checked="" type="checkbox"/> mixture							
				<input type="checkbox"/>		<input type="checkbox"/> solid							
				<input type="checkbox"/>		<input checked="" type="checkbox"/> liquid							
		CAS No.	111-90-0	1310-58-3	<input type="checkbox"/> gas	Curies: (If radioactive)	Days On Site: 365	Storage Container: R-Metal Can					
<input type="checkbox"/> EHS			<input type="checkbox"/>										

- |             |                      |             |                           |             |                     |             |                     |             |                       |             |                     |
|-------------|----------------------|-------------|---------------------------|-------------|---------------------|-------------|---------------------|-------------|-----------------------|-------------|---------------------|
| <b>Code</b> | <b>Storage Type</b>  | <b>Code</b> | <b>Storage Type</b>       | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b>   | <b>Code</b> | <b>Storage Type</b> |
| A           | Aboveground Tank     | D           | Steel Drum                | G           | Carboy              | J           | Bag                 | M           | Glass Bottle or Jug   | P           | Tank Wagon          |
| B           | Belowground Tank     | E           | Plastic/Non-metallic Drum | H           | Silo                | K           | Box                 | N           | Plastic Bottle or Jug | Q           | Rail Car            |
| C           | Tank Inside Building | F           | Can                       | I           | Fiber Drum          | L           | Cylinder            | O           | Tote Bin              | R           | Other               |

If EPCRA, sign below:

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Date: 3/15/2008

## Non-Waste Hazardous Materials Inventory Statement

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Page 14

<b>Business Name: City of Oakland Fire Station #12</b> (Same as Facility Name or DBA)					<b>Type of Report on This Page:</b> No change from previous report					Page 1 of 1 (One page per building or area)					
<b>Chemical Location 855 Alice Street</b> Oakland, CA 94607 (Building/Storage Area)				<b>EPCRA Confidential Location?</b> <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No <b>Trade Secret Information?</b> <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No		<b>Facility ID #</b> (Agency Use Only)									
1.	2.	3.	4.		5.	6.			7.	8.		9.			
Haz. Class	Map and Grid or Location Code	Common Name	Hazardous Components (For mixtures only)		Type and Physical State	Max. Daily	Average Daily	Largest Container	Units	Storage Pressure	Storage Temp.	Hazard Categories			
8		Bleach	Sodium hypochlorite	<input type="checkbox"/>	<input type="checkbox"/> pure <input checked="" type="checkbox"/> mixture	5	5	1	<input checked="" type="checkbox"/> gallons <input type="checkbox"/> pounds <input type="checkbox"/> cu feet <input type="checkbox"/> tons	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb.A	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. <input type="checkbox"/> cryogenic	<input type="checkbox"/> fire <input checked="" type="checkbox"/> reactive <input type="checkbox"/> pressure release <input checked="" type="checkbox"/> acute health <input type="checkbox"/> chronic health <input type="checkbox"/> radioactive			
		<u>CAS No.</u>	7681-52-9	<input type="checkbox"/>	<input type="checkbox"/> solid <input checked="" type="checkbox"/> liquid <input type="checkbox"/> gas	Curies: (If radioactive)	Days On Site: 365	Storage Container: N							
		<input type="checkbox"/> EHS		<input type="checkbox"/>											
				<input type="checkbox"/>											
				<input type="checkbox"/>											

- |             |                      |             |                           |             |                     |             |                     |             |                       |             |                     |
|-------------|----------------------|-------------|---------------------------|-------------|---------------------|-------------|---------------------|-------------|-----------------------|-------------|---------------------|
| <b>Code</b> | <b>Storage Type</b>  | <b>Code</b> | <b>Storage Type</b>       | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b>   | <b>Code</b> | <b>Storage Type</b> |
| A           | Aboveground Tank     | D           | Steel Drum                | G           | Carboy              | J           | Bag                 | M           | Glass Bottle or Jug   | P           | Tank Wagon          |
| B           | Belowground Tank     | E           | Plastic/Non-metallic Drum | H           | Silo                | K           | Box                 | N           | Plastic Bottle or Jug | Q           | Rail Car            |
| C           | Tank Inside Building | F           | Can                       | I           | Fiber Drum          | L           | Cylinder            | O           | Tote Bin              | R           | Other               |

**If EPCRA, sign below:**

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Date: 3/15/2008

## Non-Waste Hazardous Materials Inventory Statement

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Page 15

Business Name: City of Oakland Fire Station #12 (Same as Facility Name or DBA)					Type of Report on This Page: No change from previous report					Page 1 of 1 (One page per building or area)				
Chemical Location 855 Alice Street Oakland, CA 94607 (Building/Storage Area)			EPCRA Confidential Location? <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No Trade Secret Information? <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No		Facility ID # (Agency Use Only)									
1. Haz. Class	2. Map and Grid or Location Code	3. Common Name	4. Hazardous Components (For mixtures only)		5. Type and Physical State	6. Quantities			7. Units	8. Storage Codes		9. Hazard Categories		
						Max. Daily	Average Daily	Largest Container		Storage Pressure	Storage Temp.			
3		Floor Stripper	Diethylene glycol monoethyl ether	<input type="checkbox"/>	Isopropyl alcohol	<input type="checkbox"/> pure <input checked="" type="checkbox"/> mixture	3	3	1 pint	<input checked="" type="checkbox"/> gallons <input type="checkbox"/> pounds <input type="checkbox"/> cu. feet <input type="checkbox"/> tons	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. A	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. <input type="checkbox"/> cryogenic	<input checked="" type="checkbox"/> fire <input type="checkbox"/> reactive <input type="checkbox"/> pressure release <input type="checkbox"/> acute health <input type="checkbox"/> chronic health <input type="checkbox"/> radioactive	
			Monoethanolamine	<input type="checkbox"/>										
				<input type="checkbox"/>										
				<input type="checkbox"/>										
		CAS No.		<input type="checkbox"/>	111-90-0	67-63-0	<input type="checkbox"/> solid <input checked="" type="checkbox"/> liquid <input type="checkbox"/> gas	Curies: (If radioactive)	Days On Site: 365					Storage Container: N
<input type="checkbox"/> EHS		<input type="checkbox"/>	141-43-5	<input type="checkbox"/>										
				<input type="checkbox"/>										

- |             |                      |             |                           |             |                     |             |                     |             |                       |
|-------------|----------------------|-------------|---------------------------|-------------|---------------------|-------------|---------------------|-------------|-----------------------|
| <b>Code</b> | <b>Storage Type</b>  | <b>Code</b> | <b>Storage Type</b>       | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b> | <b>Code</b> | <b>Storage Type</b>   |
| A           | Aboveground Tank     | D           | Steel Drum                | G           | Carboy              | J           | Bag                 | M           | Glass Bottle or Jug   |
| B           | Belowground Tank     | E           | Plastic/Non-metallic Drum | H           | Silo                | K           | Box                 | N           | Plastic Bottle or Jug |
| C           | Tank Inside Building | F           | Can                       | I           | Fiber Drum          | L           | Cylinder            | O           | Tote Bin              |
|             |                      |             |                           |             |                     |             |                     | P           | Tank Wagon            |
|             |                      |             |                           |             |                     |             |                     | Q           | Rail Car              |
|             |                      |             |                           |             |                     |             |                     | R           | Other                 |

If EPCRA, sign below:

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Date: 3/15/2008

## Non-Waste Hazardous Materials Inventory Statement

For use by Unidocs Member Agencies or where approved by your Local Jurisdiction

Page 16

Business Name: City of Oakland Fire Station #12 (Same as Facility Name or DBA)						Type of Report on This Page: No change from previous report				Page 1 of 1 (One page per building or area)			
Chemical Location 855 Alice Street Oakland, CA 94607 (Building/Storage Area)				EPCRA Confidential Location? <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No Trade Secret Information? <input type="checkbox"/> Yes; <input checked="" type="checkbox"/> No		Facility ID # (Agency Use Only)							
1. Haz. Class	2. Map and Grid or Location Code	3. Common Name	4. Hazardous Components (For mixtures only)		5. Type and Physical State	6. Quantities			7. Units	8. Storage Codes		9. Hazard Categories	
						Max. Daily	Average Daily	Largest Container		Storage Pressure	Storage Temp.		
N/A		Coolant	Ethylene glycol	<input type="checkbox"/>	<input type="checkbox"/> pure <input checked="" type="checkbox"/> mixture  <input type="checkbox"/> solid <input checked="" type="checkbox"/> liquid <input type="checkbox"/> gas	2	2	1	<input checked="" type="checkbox"/> gallons <input type="checkbox"/> pounds <input type="checkbox"/> cu. feet <input type="checkbox"/> tons	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. <input type="checkbox"/> < amb A	<input checked="" type="checkbox"/> ambient <input type="checkbox"/> > amb. <input type="checkbox"/> < amb. <input type="checkbox"/> cryogenic	<input type="checkbox"/> fire <input type="checkbox"/> reactive <input type="checkbox"/> pressure release <input checked="" type="checkbox"/> acute health <input type="checkbox"/> chronic health <input type="checkbox"/> radioactive	
			Potassium 2-ethylhexanoate	<input type="checkbox"/>		Curies: (If radioactive)	Days On Site: 365	Storage Container: N					
			CAS No.			107-21-1	<input type="checkbox"/>	3164-85-0					
			<input type="checkbox"/> EHS	111-46-6		<input type="checkbox"/>							

Code Storage Type  
 A Aboveground Tank  
 B Belowground Tank  
 C Tank Inside Building

Code Storage Type  
 D Steel Drum  
 E Plastic/Non-metallic Drum  
 F Can

Code Storage Type  
 G Carboy  
 H Silo  
 I Fiber Drum

Code Storage Type  
 J Bag  
 K Box  
 L Cylinder

Code Storage Type  
 M Glass Bottle or Jug  
 N Plastic Bottle or Jug  
 O Tote Bin

Code Storage Type  
 P Tank Wagon  
 Q Rail Car  
 R Other

If EPCRA, sign below:

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**CALIBER BODYWORKS INC. DBA CALIBER COLLISION CENTERS - OAKLAND - 11TH**

149 11TH ST  
OAKLAND CA 94607



PROFILE    MAP    COMPLIANCE    CHEMICALS

**CHEMICAL STORAGE**

**REPORTING PERIOD**      **SUBMITTED ON**  
2018                              11/07/2018

**CHEMICALS**

	Name	Max Daily Amount / Unit	Avg Daily Amount / Unit	Days Onsite	Physical State(S)
+	Argon	0-2599 Cubic Feet	0-2599 Cubic Feet	365	Gas, Pure
+	Argon, Mixed with Carbon Dioxide	0-2599 Cubic Feet	0-2599 Cubic Feet	365	Gas, Mix
+	Lacquer Thinner	12-59 Gallons	12-59 Gallons	365	Liquid, Mix
+	Oxygen	0-2599 Cubic Feet	0-2599 Cubic Feet	365	Gas, Pure
+	Paint Related Waste, Flammable Solids	500-999 Pounds	100-499 Pounds	365	Solid
+	Paint Related Waste, Non-Flammable Solids	500-999 Pounds	100-499 Pounds	365	Solid
+	Waste Absorbent	60-119 Gallons	12-59 Gallons	365	Liquid
+	Waste Bondo Dust	100-499 Pounds	100-499 Pounds	365	Solid
+	Waste Ethylene Glycol	12-59 Gallons	12-59 Gallons	365	Liquid
+	Waste Motor Oil	12-59 Gallons	12-59 Gallons	365	Liquid
+	Waste Oxygenated Solvents	12-59 Gallons	12-59 Gallons	365	Liquid
+	Waste Waterborne Paint	12-59 Gallons	12-59 Gallons	365	Liquid

20 rows ▼

Page: 1 of 1

1 - 12 of 12



APR 14 '09 AM 11:54

April 7, 2009

Keith L. Matthews  
Hazardous Materials Inspector II  
Fire Prevention Bureau  
250 Frank H. Ogawa Plaza, Suite 3341  
Oakland, CA 94612

Re: Oakland Ice Center Hazardous Materials Business Plan

Dear Inspector Matthews:

Enclosed is a Hazardous Materials Business Plan.

My apologies that this has taken so long to get to you. I believe it addresses the questions you had concerning propane handling.

Please let me know if you need anything else from us.

Thank you,

A handwritten signature in black ink, consisting of several loops and a long tail, positioned to the left of the typed name.

Melissa S. Fitzgerald  
General Manager  
Oakland Ice Center Operated by Sharks Ice

A handwritten signature in black ink, consisting of the letters "K" and "M" in a stylized font, enclosed in a circle, with a long horizontal line extending to the right.

WWW.SHARKSICE.COM

AT SAN JOSE  
1500 SOUTH TENTH ST, SAN JOSE CA 95112  
PHONE: 408-279-6000 . FAX: 408-279-5500

AT FREMONT  
44388 OLD WARM SPRINGS BLVD, FREMONT CA 94538  
PHONE: 510-623-7200 . FAX: 510-623-7229

AT OAKLAND  
519 EIGHTEENTH ST, OAKLAND CA 94612  
PHONE: 510-268-9000 . FAX: 510-268-9159

# HAZARDOUS MATERIALS BUSINESS PLAN

For use by Unidocs Member Agencies or where approved by your Local Jurisdiction

Authority Cited: Ch. 6.95 HSC; Title 19, Div. 2, CCR; Title 22, Div. 4.5, CCR

All facilities that handle virgin or waste hazardous materials in quantities subject to the State Hazardous Materials Business Plan (HMBP) reporting requirements described below are required to prepare and submit a HMBP to the local Unified Program Agency that administers the HMBP Program. If that local agency does not routinely forward first-responder HMBP copies to the local first-responder fire agency, you must also submit a copy of the HMBP to the local fire agency (see [www.unidocs.org](http://www.unidocs.org) for details).

This **One-Chemical-Per-Page Inventory Format Hazardous Materials Business Plan** may be used for HMBP reporting. However, the Matrix Inventory Format is preferred. *[This form was developed by the Certified Unified Program Agency (CUPA) as an alternative version of the Unified Program Consolidated Form (UPCF). Businesses have the option to use the UPCF adopted in state regulations. The CUPA may require businesses to provide additional information.]* Adobe PDF and Microsoft Word template versions of this HMBP and a HMBP which includes the Matrix Inventory Format are available at [www.unidocs.org](http://www.unidocs.org). You may complete your HMBP on-line using the Unidocs Online Hazardous Materials Reporting Database at [www.unidocs.org](http://www.unidocs.org). If you wish to use forms other than those included in this document or the Matrix Inventory Format Hazardous Materials Business Plan, please contact your local agency for guidance. Depending upon the nature of storage/handling of hazardous materials at the facility and whether or not this is a first-time submittal, other documents may be required to be submitted in addition to the HMBP [e.g., Onsite Hazardous Waste Treatment Forms, Underground Storage Tank (UST) Operating Permit Application pages, etc.].

## What is a Hazardous Materials Business Plan?

A HMBP is a document containing detailed information on the storage of hazardous materials at a facility. Chapter 6.95 of California Health and Safety Code (HSC) and Title 19, Division 2, of the California Code of Regulations (CCR) require that facilities which use or store such materials at or above reporting thresholds submit this information.

## What is the purpose of the Hazardous Materials Business Plan?

The intent of the HMBP is to satisfy federal and state Community Right-To-Know laws and provide detailed information for use by emergency responders. All persons at the facility qualified to serve as emergency coordinators must be thoroughly familiar with the contents and use of the HMBP, with the operations and activities of the facility, and with the locations of hazardous materials records maintained by the facility.

This HMBP has been developed to assist you in complying with the State requirements and to provide the fire department with adequate information about the type, quantity of—and management practices regarding—hazardous materials that are stored at your facility. It is intended to additionally satisfy some or all of the reporting requirements for the following programs: CalARP Program Registration; Hazardous Waste Generator Registration; and Hazardous Waste Contingency Plan.

## Who must complete a Hazardous Materials Business Plan?

The owner/operator of a facility must complete and submit a HMBP for each site where any individual hazardous material or mixture containing a hazardous material is present at or above its reporting threshold at any time during the reporting year. Reporting thresholds are:

1. 500 pounds or more of any **solid hazardous material**. [HSC §25503.5(a)]
2. For **liquid hazardous materials**:
  - a. More than 55 gallons of any type or 275 gallons aggregate quantity on site for lubricating oils as defined by HSC §25503.5(b)(2)(B). [HSC §25503.5(b)(2)(A)]
  - b. 55 gallons or more of any other liquid, including waste oil. [HSC §25503.5(a)]
3. For **hazardous material gases**:
  - a. More than 1,000 cubic feet (at standard temperature and pressure) of Oxygen, Nitrogen, or Nitrous Oxide stored/handled at a physician, dentist, podiatrist, veterinarian, or pharmacist's place of business. [HSC §25503.5(b)(1)]
  - b. More than 300 gallons of Propane used for the sole purpose of heating the employee working areas within the facility. [HSC §25503.5(d)]
  - c. 200 cubic feet or more of any other gas. [HSC §25503.5(a)]
4. Amounts of **radioactive materials** requiring an emergency plan under Parts 30, 40, or 70 of Title 10 Code of Federal Regulations or applicable quantities specified in items 1, 2, or 3, above, whichever amount is smaller. [HSC §25503.5(a)]

## Hazardous Materials Business Plan (continued)

5. Applicable federal threshold planning quantities for **extremely hazardous substances** listed in 40 CFR Part 355, Appendix A.

Note: **Retail (Consumer) Products** packaged for direct distribution to, and use by, the general public are exempt from HMBP requirements except where the local agency determines otherwise pursuant to HSC §25503.5(c)(1). [Unidocs member agency interpretation is that materials qualify for this exemption only if the following requirements are met: (1) The product is not dispensed from containers at the storage facility; (2) The product is stored in a "retail display area" as defined in Section 2802.1 of the California Fire Code (e.g., Quarts of oil sitting in a display area for sale at a service station are exempt, but oil used by a mechanic in the service bay is not exempt.); (3) containers are no larger than 5 gallons (liquids) or 100 pounds (solids); and (4) Handling of the product does not present unacceptable risk to public health, safety, or the environment.]

## What if I don't handle any hazardous materials in amounts requiring a HMBP?

Facilities that are not required to complete a HMBP may still be required to register their hazardous materials with the local agency. See [www.unidocs.org](http://www.unidocs.org) for details. (Note: The local agencies reserve the right to require a HMBP for any facility upon determination that the manner of use or storage of hazardous materials is such that additional information is necessary for emergency response purposes.)

## What information is required to be submitted with the Hazardous Materials Business Plan?

The HMBP must contain the following elements:

- Business Activities page (Form and instructions attached)
- Business Owner/Operator Identification page (Form and instructions attached)
- Hazardous Materials Inventory Statement page(s) (Form and instructions attached)
- Facility Map(s) (Sample form and instructions attached)
- Emergency Response/Contingency Plan (Sample forms and instructions attached)
- Employee Training Plan (Sample form and instructions attached)

## How often do I have to update or recertify my Hazardous Materials Business Plan?

Within 30 days of the occurrence of any of the following events, the HMBP must be revised and the revisions submitted to the local agency: (1) There is a 100% or more increase in the quantity of a previously disclosed material; (2) The facility begins handling a previously undisclosed material at or above HMBP reporting thresholds; (3) The facility changes address; (4) Ownership of the facility changes; or (5) There is a change of business name. [HSC §25510]

Additionally, if the local agency determines that the HMBP is deficient in any way, the plan must be revised and the revisions submitted to the local agency within 30 days of the notice to submit a corrected plan. [HSC §25505(a)(2)]

Without regard to the above events, the owner, operator, or designated representative of the facility must complete and submit to the local agency a Hazardous Materials Business Plan Certification Form [or a copy of the current hazardous materials inventory and an updated certification signature and date at the bottom of the Business Owner/Operator Identification page] annually on or before March 1. [HSC §25503.3(c) and 19 CCR §2729.4(b)]

Facilities subject to Federal Emergency Planning and Community Right to Know Act (EPCRA) reporting requirements must submit the following to satisfy annual inventory certification requirements: A Business Activities Page; Business Owner/Operator Identification Page with current signature and date; and Hazardous Materials Inventory Statement page(s) with an original signature, photocopy of an original signature, or signature stamp on each page which lists an Extremely Hazardous Substance (EHS) handled at or above its Federal Threshold Planning Quantity (TPQ) or 500 pounds, whichever is less. [19 CCR §2729.5(c)]

The entire HMBP must be reviewed every three years to determine whether revision is needed. The facility owner, operator, or designated representative must certify that the review was performed and any needed changes were made. This certification is accomplished by completing and submitting to the local agency a Hazardous Materials Business Plan Certification Form if no changes have been made to the HMBP, or a copy of the complete HMBP with an updated certification signature and date at the bottom of the Business Owner/Operator Identification page. [HSC §25505(c)]

The **Hazardous Materials Business Plan Certification Form** is available at [www.unidocs.org](http://www.unidocs.org).

If all of the following conditions are met, facilities with an approved HMBP on file with the local agency are exempt from the requirements for annual inventory certification/submittal and triennial review/certification unless required by federal law or local ordinance. The site must: be an unstaffed remote facility located in an isolated sparsely populated area; be secured and inaccessible to the public; be marked with warning signs in accordance with California Fire Code requirements; and handle no more than: [HSC §25503.5(c)(6)]

- 500 gallons of combustible liquid fuel (e.g., diesel);
- 1,200 gallons of flammable gas fuel (e.g., propane);
- 200 gallons of corrosive battery electrolytes (liquid- or gel-type);
- 500 standard cubic feet of compressed inert gases (e.g., nitrogen); or
- 500 gallons of lubricating and/or hydraulic fluids.

## Who is my local agency?

Unidocs member agency contact information is available on-line at [www.unidocs.org/members.html](http://www.unidocs.org/members.html).

UNIDOCs  
FACILITY INFORMATION  
BUSINESS ACTIVITIES

I. FACILITY IDENTIFICATION

FACILITY ID # (Agency Use Only)												1. EPA ID # (Hazardous Waste Only)	2.
BUSINESS NAME (Same as Facility Name or DBA - Doing Business As)													3.
Oakland Ice Center													
BUSINESS SITE ADDRESS 519 18 <sup>th</sup> Street													103.
BUSINESS SITE CITY Oakland										104.	CA	ZIP CODE 94612	105.

II. ACTIVITIES DECLARATION

NOTE: If you check YES to any part of this list,  
please submit the Business Owner/Operator Identification page.

Does your facility...	If Yes, please complete these pages of the UPCF...	
<b>A. HAZARDOUS MATERIALS</b> Have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO 4.	HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION
<b>B. REGULATED SUBSTANCES</b> Have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release Prevention Program (CalARP)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 4a.	Coordinate with your local agency responsible for CalARP.
<b>C. UNDERGROUND STORAGE TANKS (USTs)</b> Own or operate underground storage tanks?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 5.	UST OPERATING PERMIT APPLICATION - FACILITY INFORMATION UST OPERATING PERMIT APPLICATION - TANK INFORMATION
<b>D. ABOVE GROUND PETROLEUM STORAGE</b> Own or operate ASTs above these thresholds: Store greater than 1,320 gallons of petroleum products (new or used) in aboveground tanks or containers?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 8.	No form required to CUPAs
<b>E. HAZARDOUS WASTE</b> Generate hazardous waste? Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC §25143.2)? Treat hazardous waste onsite? Perform treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)? Consolidate hazardous waste generated at a remote site? Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite? Generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month, or accumulate at any time, 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate or accumulate at any time more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste? Serve as a Household Hazardous Waste (HHW) Collection site?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 9. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 10. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 11. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 12. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 13. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 14. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 14a. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 14b.	EPA ID NUMBER - provide at top of this page RECYCLABLE MATERIALS REPORT (one per recycler) ONSITE HAZARDOUS WASTE TREATMENT NOTIFICATION - FACILITY PAGE ONSITE HAZARDOUS WASTE TREATMENT NOTIFICATION - UNIT PAGE (one page per unit) CERTIFICATION OF FINANCIAL ASSURANCE REMOTE WASTE CONSOLIDATION SITE ANNUAL NOTIFICATION HAZARDOUS WASTE TANK CLOSURE CERTIFICATION Obtain federal EPA ID Number, file Biennial Report (EPA Form 8700-13A/B), and satisfy requirements for RCRA Large Quantity Generator. See CUPA for required forms.
<b>F. LOCAL REQUIREMENTS</b> (You may also be required to provide additional information by your CUPA or local agency.)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 15.	

## Business Activities Page Instructions

You must include the Business Activities Page with all HMBP submittals where the Business Owner/Operator Identification Page and/or hazardous materials inventory page(s) are submitted. [Note: Numbering of the following instructions follows the Unified Program Consolidated Form (UPCF) Data Element numbers on the form. These data element numbers are used for electronic submittal and are the same as the numbering used in the Unified Program Data Dictionary in 27 CCR, Division 3.] Please number all pages of your submittal.

1. FACILITY ID NUMBER - This number is for agency use only. Leave this space blank.
2. EPA ID NUMBER - If you generate, recycle, or treat hazardous waste, enter your facility's 12-character U.S. Environmental Protection Agency (USEPA) or California Identification number. If your facility generates more than 100 kilograms (kg) of a RCRA (i.e., federally regulated) hazardous waste per year, obtain a federal EPA ID Number by submitting EPA FORM 8700-12 to the USEPA. Otherwise, obtain a California EPA ID Number by submitting DTSC FORM 1358 to the Department of Toxic Substances Control (DTSC). Forms are available at [www.dtsc.ca.gov](http://www.dtsc.ca.gov).
3. BUSINESS NAME - Enter the complete Facility Name.
103. BUSINESS SITE ADDRESS - Enter the street address where the facility is located, including building number, if applicable. Post office box numbers are not acceptable. This information must provide a means to locate the facility geographically.
104. BUSINESS SITE CITY - Enter the city or unincorporated area in which the facility is located.
105. ZIP CODE - Enter the 5 or 9 digit zip code for the facility.
4. HAZARDOUS MATERIALS - Check the appropriate box to indicate whether you have any hazardous material on site in a quantity subject to Hazardous Materials Business Plan (HMBP) reporting requirements. (Refer to the HMBP instructions available on the Internet at [www.unidocs.org/hazmat/business-plan/index.html](http://www.unidocs.org/hazmat/business-plan/index.html)). If "YES," you must submit a HMBP.
- 4a. REGULATED SUBSTANCES - Check the appropriate box to indicate whether you have any CalARP regulated substance on site. (Refer to [www.oes.ca.gov](http://www.oes.ca.gov) for CalARP guidance documents regarding regulated substances.)
5. UNDERGROUND STORAGE TANKS (UST) - Check the appropriate box to indicate whether you own or operate USTs containing hazardous substances as defined in Health and Safety Code (HSC) §25316. If "YES", and you do not already have on file with your local agency a current UST Operating Permit Application - Facility page, UST Operating Permit Application - Tank page for each tank, UST Monitoring Plan, and UST Response Plan, then you must submit those documents. (Note: There is no UPCF page for the UST Response Plan.)
8. ABOVEGROUND PETROLEUM STORAGE - Check the appropriate box to indicate whether your facility has aggregate aboveground petroleum storage (including used oil) greater than 1,320 gallons in tanks or containers 55 gallons or larger. (There is no UPCF page for ASTs.) The following are exempt from this requirement: 1.) pressure vessels or boilers subject to Division 5 of the Labor Code; 2.) tanks containing hazardous waste if a hazardous waste facility permit has been issued by DTSC; 3.) aboveground oil production tanks regulated by the Division of Oil and Gas; and 4.) certain oil-filled electrical equipment, including, but not limited to, transformers, circuit breakers, and capacitors.
9. HAZARDOUS WASTE GENERATOR - Check the appropriate box to indicate whether your facility generates a waste that meets any of the hazardous waste criteria adopted pursuant to HSC §25141.
10. RECYCLE - Check the appropriate box to indicate whether your facility recycles more than 100 kg (approximately 220 pounds or 27 gallons) per month of recyclable material under a claim that the material is excluded or exempt per HSC §25143.2. If you check "YES," and you do not already have a current Recyclable Materials Report on file with the appropriate local Unified Program Agency (UPA), then you must also submit that report to the UPA. Check "NO" if you only send recyclable materials to an offsite recycler.
11. ONSITE HAZARDOUS WASTE TREATMENT - Check the appropriate box to indicate whether your facility engages in regulated onsite treatment of hazardous waste. If you check "YES," and you do not already have current Onsite Hazardous Waste Treatment Notification - Facility and Onsite Hazardous Waste Treatment Notification - Unit pages on file with the appropriate local UPA, then you must also submit those forms to the UPA.
12. FINANCIAL ASSURANCE - Check the appropriate box to indicate whether your facility has Permit by Rule (PBR) and/or Conditionally Authorized (CA) operations subject to financial assurance requirements for closure of an onsite treatment unit. If you check "YES," and you do not already have current "Certification of Financial Assurance" on file with the appropriate local UPA, then you must submit that form to the UPA.
13. HAZARDOUS WASTE REMOTE CONSOLIDATION SITE - Check the appropriate box to indicate whether your facility consolidates hazardous waste generated at a remote site. By answering "YES," you are indicating that you are a hazardous waste generator that collects hazardous waste initially at a remote site and subsequently transports the hazardous waste to a consolidation site you also operate. If you check "YES," and you do not already have current "Remote Waste Consolidation Site Annual Notification" page on file with the appropriate local UPA, then you must submit that form to the UPA.
14. HAZARDOUS WASTE TANK CLEANING - Check the appropriate box if any tank has been cleaned onsite per Title 22, Div. 4.5, Ch. 32, CCR with the intention of rendering it non-hazardous. If you check "YES," then you must submit a Hazardous Waste Tank Closure Certification to the appropriate local UPA.
- 14a. RCRA LARGE QUANTITY GENERATOR - Check the appropriate box to indicate whether your facility is a LQG.
- 14b. HHW COLLECTION SITE - Check the appropriate box to indicate whether your facility is a HHW Collection Site.
15. LOCAL REQUIREMENTS - Check with your local UPA before submitting this document to determine if any supplemental information is required.



20-3025

UNIDOCs FACILITY INFORMATION BUSINESS OWNER/OPERATOR IDENTIFICATION

Page of

I. IDENTIFICATION

Form section I. IDENTIFICATION containing fields for Facility ID #, Beginning Date, Ending Date, Business Name (Oakland Ice Center), Business Site Address (519 18th Street), Business Site City (Oakland), ZIP Code (94612), County (Alameda), Business Mailing Address, Business Operator Name, and Business Operator Phone.

II. BUSINESS OWNER

Form section II. BUSINESS OWNER containing fields for Owner Name (City of Oakland), Owner Mailing Address (CEDA, Redevelopment Div., 250 Frank Ogawa Plaza, 5th Floor), Owner Mailing City (Oakland), State (CA), and ZIP Code (94612).

III. ENVIRONMENTAL CONTACT

Form section III. ENVIRONMENTAL CONTACT containing fields for Contact Name (Melissa Fitzgerald), Contact Mailing Address (c/o Oakland Ice Center, 519 18th Street), Contact Mailing City (Oakland), State (CA), and ZIP Code (94612).

IV. EMERGENCY CONTACTS

Form section IV. EMERGENCY CONTACTS with columns for -PRIMARY- and -SECONDARY- contacts. Fields include Name, Title, Business Phone, 24-Hour Phone, and Pager # for Melissa Fitzgerald and Jon Gustafson.

ADDITIONAL LOCALLY COLLECTED INFORMATION:

Form section for additional information containing Billing Address (Oakland Ice Center, 519 18th Street, Oakland CA 94612) and Property Owner (City of Oakland) with Phone No. (510) 238-3223.

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

Form section for signature containing fields for Signature of Owner/Operator (Melissa Fitzgerald), Date (2/23/2009), Name of Document Preparer (Melissa Fitzgerald), and Title of Signer (General Manager, Oakland Ice Center).

## Business Owner/Operator Identification Page Instructions

You must include the Business Owner/Operator Identification Page with all HMBP submittals where the Business Activities Page and/or hazardous materials inventory page(s) are submitted. [Note: Numbering of the following instructions follows the Unified Program Consolidated Form (UPCF) Data Element numbers on the form. These data element numbers are used for electronic submittal and are the same as the numbering used in the Unified Program Data Dictionary in 27 CCR, Division 3.] Please number all pages of your submittal.

1. FACILITY ID NUMBER - This number is for agency use only. Leave this space blank.
  3. BUSINESS NAME - Enter the complete Facility Name.
  100. BEGINNING DATE - Enter the beginning year and date of the report.
  101. ENDING DATE - Enter the ending year and date of the report.
  102. BUSINESS PHONE - Enter the phone number, including area code and any extension.
  - 102a. BUSINESS FAX - Enter the fax number, including area code.
  103. BUSINESS SITE ADDRESS - Enter the street address where the facility is located, including building number, if applicable. Post office box numbers are not acceptable. This information must provide a means to locate the facility geographically.
  104. CITY - Enter the city or unincorporated area in which the facility is located.
  105. ZIP CODE - Enter the 5 or 9 digit zip code for the facility.
  106. DUN & BRADSTREET - If the business has a D&B number, enter it here.
  107. SIC CODE - Enter the 4 digit Standard Industrial Classification Code number for the facility's primary business activity.
  - 107a. NAICS NUMBER - Enter the primary North American Industrial Classification System number.
  108. COUNTY - Enter the name of the county in which the facility is located.
  - 108a. BUSINESS MAILING ADDRESS - Enter the facility's street or P.O. box mailing address, if different from the site address.
  - 108b. BUSINESS MAILING CITY - Enter the name of the city for the facility's mailing address.
  - 108c. BUSINESS MAILING STATE - Enter the 2 character state abbreviation for the facility's mailing address.
  - 108d. BUSINESS MAILING ZIP CODE - Enter the 5 or 9 digit zip code for the facility's mailing address.
  109. BUSINESS OPERATOR NAME - Enter the name of the facility operator.
  110. BUSINESS OPERATOR PHONE - Enter the operator's phone number, including area code and any extension.
  111. OWNER NAME - Enter the name of the facility owner, if different from the operator.
  112. OWNER PHONE - Enter the owner's phone number, including area code and any extension.
  113. OWNER MAILING ADDRESS - Enter the owner's street or P.O. box mailing address, if different from the site address.
  114. OWNER MAILING CITY - Enter the name of the city for the owner's mailing address.
  115. OWNER MAILING STATE - Enter the 2 character state abbreviation for the owner's mailing address.
  116. OWNER MAILING ZIP CODE - Enter the 5 or 9 digit zip code for the owner's mailing address.
  117. ENVIRONMENTAL CONTACT NAME - Enter the name of the person, if different from the Business Owner or Operator, who will receive all environmental correspondence and will respond to enforcement activity.
  118. CONTACT PHONE - Enter the environmental contact's phone number, including area code and any extension.
  - 119a. CONTACT EMAIL ADDRESS - Enter the Environmental Contact's eMail address.
  119. CONTACT MAILING ADDRESS - Enter the street or P.O. box mailing address where all environmental contact correspondence should be sent, if different from the site address.
  120. CONTACT MAILING CITY - Enter the name of the city for the environmental contact's mailing address.
  121. CONTACT MAILING STATE - Enter the 2 character state abbreviation for the environmental contact's mailing address.
  122. CONTACT MAILING ZIP CODE - Enter the 5 or 9 digit zip code for the environmental contact's mailing address.
  123. PRIMARY EMERGENCY CONTACT NAME - Enter the name of a representative (i.e. Emergency Coordinator) who can be contacted in case of an emergency involving hazardous materials at the facility. This person shall have full facility access, site familiarity, and authority to make decisions for the business regarding incident mitigation.
  124. TITLE - Enter the title of the primary Emergency Coordinator.
  125. BUSINESS PHONE - Enter primary Emergency Coordinator's business phone number, including area code and any extension.
  126. 24-HOUR PHONE - Enter a phone number that will be answered 24 hours a day. If not the primary Emergency Coordinator's home phone number, then the number of an answering service able to immediately contact the primary Emergency Coordinator must be provided. Please note that this is a public document, so any telephone number provided is available to the general public any time a review of your facility's records is conducted.
  127. PAGER NUMBER - Enter the pager number for the primary Emergency Coordinator, if available.
  128. SECONDARY EMERGENCY CONTACT NAME - Enter the name of a secondary Emergency Coordinator who can be contacted in the event that the primary Emergency Coordinator is not available. The contact shall have full facility access, site familiarity, and authority to make decisions for the business regarding incident mitigation.
  129. TITLE - Enter the title of the secondary Emergency Coordinator.
  130. BUSINESS PHONE - Enter secondary Emergency Coordinator's business phone number, including area code and any extension.
  131. 24-HOUR PHONE - Enter a phone number for the secondary Emergency Coordinator. See instructions for item 126, above.
  132. PAGER NUMBER - Enter the pager number for the secondary Emergency Coordinator, if available.
  133. ADDITIONAL LOCALLY COLLECTED INFORMATION - Enter the complete mailing address to which bills for permit fees should be sent, if different from items 119-122, above. Enter the name and phone number for the property owner.
- SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE - The Business Owner/Operator, or officially designated representative of the Owner/Operator, shall sign in the space provided. This signature certifies that the signer is familiar with the information submitted, and that based on the signer's inquiry of those individuals responsible for obtaining the information, it is the signer's belief that the submitted information is true, accurate, and complete.
134. DATE - Enter the date that the document was signed.
  135. NAME OF DOCUMENT PREPARER - Type or print the full name of the person who prepared the Business Plan information.
  136. NAME OF SIGNER - Type or print the full name of the person signing this document.
  137. TITLE OF SIGNER - Enter the title of the person signing this document.

**UNIDOCs**  
**HAZARDOUS MATERIALS**  
**HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION**  
(One page per material per building or area)

 ADD

 DELETE

 REVISE

200.

Page \_\_\_\_\_ of \_\_\_\_\_

**I. FACILITY INFORMATION**

BUSINESS NAME (Same as Facility Name or DBA – Doing Business As) 3.

**Oakland Ice Center**

CHEMICAL LOCATION 201.

**519 18<sup>th</sup> Street, Oakland CA 94612**

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202.

 YES  NO

FACILITY ID #  
(Agency Use Only)

MAP # (Optional) 203.

GRID # (Optional) 204.

**II. CHEMICAL INFORMATION**

CHEMICAL NAME 205.

**Propane**

TRADE SECRET 206.

If subject to EPCRA, refer to instructions  Yes  No

COMMON NAME 207.

**Propane**

EHS\* 208.

 Yes  No

CAS# 209.

**74-98-6**

\*If EHS is "Yes," all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210.

HAZARDOUS MATERIAL 211.

TYPE (Check one item only)  a. PURE  b. MIXTURE  c. WASTE

RADIOACTIVE 212.

 Yes  No

CURIES 213.

PHYSICAL STATE  
(Check one item only)

 a. SOLID  b. LIQUID  c. GAS 214.

LARGEST CONTAINER 215.

**33#**

FED HAZARD CATEGORIES  
(Check all that apply)

 a. FIRE  b. REACTIVE  c. PRESSURE RELEASE  d. ACUTE HEALTH  e. CHRONIC HEALTH 216.

AVERAGE DAILY AMOUNT 217.

**396#**

MAXIMUM DAILY AMOUNT 218.

**396#**

ANNUAL WASTE AMOUNT 219.

STATE WASTE CODE 220.

UNITS\* 221.

(Check one item only)

 a. GALLONS  b. CUBIC FEET  c. POUNDS  d. TONS

\* If EHS, amount must be in pounds.

DAYS ON SITE 222.

**365**

STORAGE CONTAINER

 a. ABOVEGROUND TANK

 f. CAN

 k. BOX

 p. TANK WAGON 223.

 b. UNDERGROUND TANK

 g. CARBOY

 l. CYLINDER

 q. RAIL CAR

 c. TANK INSIDE BUILDING

 h. SILO

 m. GLASS BOTTLE

 r. OTHER

 d. STEEL DRUM

 i. FIBER DRUM

 n. PLASTIC BOTTLE

 e. PLASTIC/NONMETALLIC DRUM

 j. BAG

 o. TOTE BIN

STORAGE PRESSURE

 a. AMBIENT  b. ABOVE AMBIENT  c. BELOW AMBIENT 224.

STORAGE TEMPERATURE

 a. AMBIENT  b. ABOVE AMBIENT  c. BELOW AMBIENT  d. CRYOGENIC 225.

% WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1. 226.

227.

 Yes  No 228.

229.

2. 230.

231.

 Yes  No 232.

233.

3. 234.

235.

 Yes  No 236.

237.

4. 238.

239.

 Yes  No 240.

241.

5. 242.

243.

 Yes  No 244.

245.

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246.

DOT Hazard Class: Division 2.1

If EPCRA, Please Sign Here. \_\_\_\_\_

If this facility is subject to Federal Emergency Planning and Community Right to Know Act (EPCRA) reporting requirements, a signature is required at the bottom of the form if the page lists an Extremely Hazardous Substance (EHS) handled at or above its Federal Threshold Planning Quantity (TPQ) or 500 pounds, whichever is less.

## BART WASHINGTON STREET SUBSTATION (KWS)

WASHINGTON ST AT 5TH ST  
OAKLAND CA 94607



[PROFILE](#) [MAP](#) [COMPLIANCE](#) [CHEMICALS](#)

### CHEMICAL STORAGE

**REPORTING PERIOD**  
2019

**SUBMITTED ON**  
01/08/2019

### CHEMICALS

	Name	Max Daily Amount / Unit	Avg Daily Amount / Unit	Days Onsite	Physical State(S)
+	Nitrogen	2600-12999 Cubic Feet	2600-12999 Cubic Feet	365	Gas, Pure
+	SHELL DIALA OIL AX	1200-2999 Gallons	1200-2999 Gallons	365	Liquid, Mix

## OAKLAND POWER PLANT

50 MARTIN LUTHER KING JR WAY  
OAKLAND CA 94607



PROFILE    MAP    COMPLIANCE    CHEMICALS

### EVALUATIONS

Total **5**

### VIOLATIONS

Total **0**

### COMPLIANCE ACTIONS

Total **0**

## TOTAL

	Date	Program	Type
+	06/28/2019	HMRRP - Hazardous Materials Release Response Plans (HMRRP)	Routine done by local agency
+	06/28/2019	HW - Hazardous Waste Generator	Routine done by local agency
+	06/02/2016	HMRRP - Hazardous Materials Release Response Plans (HMRRP)	Routine done by local agency
-	06/02/2016	APSA - Aboveground Petroleum Storage Act (APSA)	Routine done by local agency

### DESCRIPTION

Routine done by local CUPA or Participating Agency

### NOTES

ROUTINE TRIENNIAL APSA / SPCC INSPECTION OF OAKLAND POWER PLANT AT 50 MLK, OAKLAND. FACILITY WALK THROUGH CONDUCTED WITH LOU MEDINA, SHIFT SUPERVISOR. FACILITY IS A PEAKER POWER PLANT THAT GENERATES ELECTRICITY ON DEMAND. POWER PLANT GENERATION CAPACITY IS 165 MEGAWATTS. FACILITY HAS THREE IDENTICAL POWER GENERATING UNITS (UNIT 1, 2, 3) THAT EACH HAVE TWO JET TURBINES AND ONE GENERATOR. THE JET TURBINES ARE POWERED BY DIESEL FUEL #2 OR JET A. FACILITY OIL STORAGE CAPACITY EXCEEDS 10,000 GALLONS AND INDIVIDUAL CONTAINERS EXCEED 5,000 GALLONS. THE FACILITY IS NON-QUALIFIED. NO RELEASES OF OIL HAVE BEEN REPORTED, OR RECORDED. OIL STORAGE CAPACITY SUBJECT TO APSA (CONTAINERS EQUAL TO OR GREATER THAN 55 GALLONS: DIESEL FUEL NO 2 OR JET FUEL A IN FIELD CONSTRUCTED SINGLE WALL, DOUBLE BOTTOM ABOVE GROUND TANK WITH CAPACITY OF 2,100,000 GALLONS. THIS AGT IS SECONDARILY CONTAINED WITHIN A STEEL DIKED AREA. OILY WATER AGT WITHIN SECONDARY CONTAINMENT CONCRETE [Truncated]

+	06/02/2016	HW - Hazardous Waste Generator	Routine done by local agency
---	------------	--------------------------------	------------------------------



T-Mobile®

stick  
together

20-2109

94607

T-Mobile USA, Inc.  
12920 SE 38th Street, Bellevue, WA 98006

VIA CERTIFIED MAIL

February 3, 2012

City of Oakland Fire Department  
Hazardous Materials Unit  
250 Frank H. Ogawa Plaza, 4<sup>th</sup> Floor-Suite # 3341  
Oakland, California 94612

Re: 720 2<sup>nd</sup> Street, Oakland Switch Facility

To Whom It May Concern:

T-Mobile USA, Inc. ("T-Mobile") is updating the Hazardous Materials Business Plan with the following information for its facility at 720 2<sup>nd</sup> Street, Oakland, CA 94607:

- Business Activities Form
- Business Owner-Operator Identification Form
- Hazardous Materials Inventory
- Emergency Response/Contingency Plan and
- Training Plan for employees.

We are submitting the information in accordance with the State requirements for hazardous materials disclosure (Title 19, Division 2, Chapter 4, Article 4 of the California Code of Regulations and Section 25503-25504 of the California Health and Safety Code), as adopted in the Oakland Municipal Code (Title 8, Chapter 12, Section 20) as well as the Federal EPCRA requirements (Section 11022 of Title 42, USC).

If you have any questions concerning the submittal of these materials, please call me at (425) 383-5244 or Paul Wong, Switch Manager at (925)-300-5342.

Sincerely yours,



Marin Fettman  
Sr Corporate Counsel

Enclosures

**UNIFIED PROGRAM CONSOLIDATED FORM  
FACILITY INFORMATION  
BUSINESS ACTIVITIES**

Page 1 of 12

**I. FACILITY IDENTIFICATION**

FACILITY ID #		EPA ID # (Hazardous Waste Only)	2.
---------------	--	---------------------------------	----

BUSINESS NAME (Same as Facility Name or DBA - Doing Business As) 3.  
**T-Mobile West Oakland Switch**

**II. ACTIVITIES DECLARATION**

**NOTE: If you check YES to any part of this list,  
please submit the Business Owner/Operator Identification page (OES Form 2730).**

Does your facility...	If Yes, please complete these pages of the UPCF...
<p><b>A. HAZARDOUS MATERIALS</b></p> <p>Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?</p>	<p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO 4.</p> <p>HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION (OES 2731)</p>
<p><b>B. UNDERGROUND STORAGE TANKS (USTs)</b></p> <p>1. Own or operate underground storage tanks?            2. Intend to upgrade existing or install new USTs?            3. Need to report closing a UST?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 5.</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 6.</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 7.</p> <p>UST FACILITY (Formerly SWRCB Form A)            UST TANK (one page per tank) (Formerly Form B)            UST FACILITY            UST TANK (one per tank)            UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) (Formerly Form C)            UST TANK (closure portion - one page per tank)</p>
<p><b>C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs)</b></p> <p>Own or operate ASTs above these thresholds:            ---any tank capacity is greater than 660 gallons, or            ---the total capacity for the facility is greater than 1,320 gallons?</p>	<p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO 8.</p> <p>NO FORM REQUIRED TO CUPAS</p>
<p><b>D. HAZARDOUS WASTE</b></p> <p>1. Generate hazardous waste?            2. Recycle more than 100 kg/month of excluded or exempted recyclable materials (per H&amp;SC §25143.2)?            3. Treat hazardous waste on site?            4. Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?            5. Consolidate hazardous waste generated at a remote site?            6. Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 9.</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 10.</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 11.</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 12.</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 13.</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 14.</p> <p>EPA ID NUMBER - provide at the top of this page            RECYCLABLE MATERIALS REPORT (one per recycler)            ONSITE HAZARDOUS WASTE TREATMENT - FACILITY (Formerly DTSC Forms 1772)            ONSITE HAZARDOUS WASTE TREATMENT - UNIT (one page per unit) (Formerly DTSC Forms 1772 A,B,C,D and L)            CERTIFICATION OF FINANCIAL ASSURANCE (Formerly DTSC Form 1232)            REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION (Formerly DTSC Form 119a)            HAZARDOUS WASTE TANK CLOSURE CERTIFICATION (Formerly DTSC Form 1249)</p>
<p><b>E. LOCAL REQUIREMENTS</b></p> <p>Approximately 13,750 feet of building encompasses the facility with four contracted employees.</p>	<p>(You may also be required to provide additional information by your CUPA or local agency.) 15.</p>



**UNIFIED PROGRAM CONSOLIDATED FORM  
FACILITY INFORMATION  
BUSINESS OWNER/OPERATOR IDENTIFICATION**

Page 2 of \_\_\_\_

**I. IDENTIFICATION**

FACILITY ID#		BEGINNING DATE	100	ENDING DATE	101
		1/1/2012		12/31/2012	
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)	3			BUSINESS PHONE	102
T-Mobile West Oakland Switch				510-268-3598	
BUSINESS SITE ADDRESS	103				
720 2 <sup>nd</sup> Street, 2 <sup>nd</sup> Floor					
CITY	104	CA	ZIP CODE	105	
Oakland			94607-3004		
DUN & BRADSTREET	106		SIC CODE (4 digit #)	107	
			4812		
COUNTY	108				
Alameda					
BUSINESS OPERATOR NAME	109			BUSINESS OPERATOR PHONE	110
T-Mobile USA, Inc.				510-268-3598	

**II. BUSINESS OWNER**

OWNER NAME	111			OWNER PHONE	112
T-Mobile USA, Inc.				(425) 383-5244	
OWNER MAILING ADDRESS	113				
12920 S.E. 38 <sup>th</sup> Street					
CITY	114	STATE	115	ZIP CODE	116
Bellevue		WA		98006	

**III. ENVIRONMENTAL CONTACT**

CONTACT NAME	117			CONTACT PHONE	118
Marin Fettman				(425) 383-5244	
CONTACT MAILING ADDRESS	119				
12920 S.E. 38 <sup>th</sup> St.					
CITY	120	STATE	121	ZIP CODE	122
Bellevue		WA		98006	

**-PRIMARY-**

**IV. EMERGENCY CONTACTS**

**-SECONDARY-**

NAME	123	NAME	128
Paul Wong		Garry Willey	
TITLE	124	TITLE	129
Switch Manager		Operations Manager	
BUSINESS PHONE	125	BUSINESS PHONE	130
(925) 300-5342		925-300-5300	
24-HOUR PHONE	126	24-HOUR PHONE	131
(888) 662-4662		(888) 662-4662	
PAGER #	127	PAGER #	132
N/A		N/A	

ADDITIONAL LOCALLY COLLECTED INFORMATION:

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE	134	NAME OF DOCUMENT PREPARER	135
	02/03/2012		Ghi a Jones	
NAME OF SIGNER (print)	136	TITLE OF SIGNER	137	
Marin Fettman		Sr Corporate Counsel		

UNIFIED PROGRAM CONSOLIDATED FORM

HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

ADD

DELETE

REVISE

200

Page \_\_\_ of \_\_\_

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3

T-Mobile USA, Inc. West Oakland Switch

CHEMICAL LOCATION 201

Battery Room 2<sup>nd</sup> Floor

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202

YES  NO

FACILITY ID #

MAP# (optional) 203

GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205

Sulfuric Acid

TRADE SECRET  Yes  No 206

If Subject to EPCRA, refer to instructions

COMMON NAME 207

Sealed Lead Acid Battery

EHS\*  Yes  No 208

CAS# 209

7664-93-9

\*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) 211

a. PURE  b. MIXTURE  c. WASTE

RADIOACTIVE  Yes  No 212

CURIES 213

PHYSICAL STATE (Check one item only) 214

a. SOLID  b. LIQUID  c. GAS

LARGEST CONTAINER 12,312 215

FED HAZARD CATEGORIES (Check all that apply) 216

a. FIRE  b. REACTIVE  c. PRESSURE RELEASE  d. ACUTE HEALTH  e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217

12,312

MAXIMUM DAILY AMOUNT 218

12,312

ANNUAL WASTE AMOUNT 219

STATE WASTE CODE 220

UNITS\* (Check one item only) 221

a. GALLONS  b. CUBIC FEET  c. POUNDS  d. TONS  
\* If EHS, amount must be in pounds.

DAYS ON SITE: 222  
365

STORAGE CONTAINER 223

a. ABOVE GROUND TANK  e. PLASTIC/NONMETALLIC DRUM  i. FIBER DRUM  m. GLASS BOTTLE  q. RAIL CAR  
 b. UNDERGROUND TANK  f. CAN  j. BAG  n. PLASTIC BOTTLE  r. OTHER  
 c. TANK INSIDE BUILDING  g. CARBOY  k. BOX  o. TOTE BIN  
 d. STEEL DRUM  h. SILO  l. CYLINDER  p. TANK WAGON

STORAGE PRESSURE 224

a. AMBIENT  b. ABOVE AMBIENT  c. BELOW AMBIENT

STORAGE TEMPERATURE 225

a. AMBIENT  b. ABOVE AMBIENT  c. BELOW AMBIENT  d. CRYOGENIC

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 73 226	LEAD 227	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 228	7439-92-1 229
2 25 230	LEAD DIOXIDE 231	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 232	1309-60-0 233
3 20 234	SULFURIC ACID 235	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 236	7664-93-9 237
4 .01 238	TIN 239	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 240	7440-31-5 241
5 242	243	<input type="checkbox"/> Yes <input type="checkbox"/> No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here

**UNIFIED PROGRAM CONSOLIDATED FORM**

**HAZARDOUS MATERIALS**

**HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION**

(one page per material per building or area)

ADD       DELETE       REVISE      200      Page \_\_\_ of \_\_\_

**I. FACILITY INFORMATION**

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) <span style="float: right;">3</span>	
T-Mobile USA, Inc. West Oakland Switch	
CHEMICAL LOCATION <span style="float: right;">201</span>	CHEMICAL LOCATION CONFIDENTIAL EPCRA <span style="float: right;">202</span>
Walled attachment, W Side of bldg	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
FACILITY ID #	MAP# (optional) <span style="float: right;">203</span> GRID# (optional) <span style="float: right;">204</span>

**II. CHEMICAL INFORMATION**

CHEMICAL NAME <span style="float: right;">205</span>	TRADE SECRET <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <span style="float: right;">206</span>
Diesel #2	If Subject to EPCRA, refer to instructions
COMMON NAME <span style="float: right;">207</span>	EHS* <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <span style="float: right;">208</span>
Diesel #2	
CAS# <span style="float: right;">209</span>	*If EHS is "Yes", all amounts below must be in lbs.
68476-34-6	
FIRE CODE HAZARD CLASSES (Complete if required by CUPA) <span style="float: right;">210</span>	

HAZARDOUS MATERIAL TYPE (Check one item only) <span style="float: right;">211</span>	RADIOACTIVE <input type="checkbox"/> Yes <input type="checkbox"/> No <span style="float: right;">212</span>	CURIES <span style="float: right;">213</span>
<input type="checkbox"/> a. PURE <input checked="" type="checkbox"/> b. MIXTURE <input type="checkbox"/> c. WASTE		
PHYSICAL STATE (Check one item only) <span style="float: right;">214</span>	LARGEST CONTAINER 2000 <span style="float: right;">215</span>	
<input type="checkbox"/> a. SOLID <input checked="" type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS		
FED HAZARD CATEGORIES (Check all that apply) <span style="float: right;">216</span>		
<input type="checkbox"/> a. FIRE <input checked="" type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE <input type="checkbox"/> d. ACUTE HEALTH <input type="checkbox"/> e. CHRONIC HEALTH		
AVERAGE DAILY AMOUNT <span style="float: right;">217</span>	MAXIMUM DAILY AMOUNT <span style="float: right;">218</span>	ANNUAL WASTE AMOUNT <span style="float: right;">219</span> STATE WASTE CODE <span style="float: right;">220</span>
2000	2000	
UNITS* (Check one item only) <span style="float: right;">221</span>	DAYS ON SITE: <span style="float: right;">222</span>	
<input checked="" type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input checked="" type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS	365	
* If EHS, amount must be in pounds.		

STORAGE CONTAINER <span style="float: right;">223</span>
<input type="checkbox"/> a. ABOVE GROUND TANK <input type="checkbox"/> e. PLASTIC/NONMETALLIC DRUM <input type="checkbox"/> i. FIBER DRUM <input type="checkbox"/> m. GLASS BOTTLE <input type="checkbox"/> q. RAIL CAR <input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> f. CAN <input type="checkbox"/> j. BAG <input type="checkbox"/> n. PLASTIC BOTTLE <input checked="" type="checkbox"/> r. OTHER <input type="checkbox"/> c. TANK INSIDE BUILDING <input type="checkbox"/> g. CARBOY <input type="checkbox"/> k. BOX <input type="checkbox"/> o. TOTE BIN <input type="checkbox"/> d. STEEL DRUM <input type="checkbox"/> h. SILO <input type="checkbox"/> l. CYLINDER <input type="checkbox"/> p. TANK WAGON

STORAGE PRESSURE <span style="float: right;">224</span>
<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT

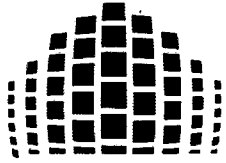
STORAGE TEMPERATURE <span style="float: right;">225</span>
<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC

%WT		HAZARDOUS COMPONENT (For mixture or waste only)		EHS	CAS #		
1	99.9	226	Full Range Straight Run Middle Disllate	227	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      228	68814-87-9	229
2	99.9	230	Hydrotreated Middle Distillate	231	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      232	64742-46-7	233
3		234		235	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      236		237
4		238		239	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      240		241
5		242		243	<input type="checkbox"/> Yes <input type="checkbox"/> No      244		245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information. 246

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here



# MATRIXCM

FACILITIES PLANNING & CONSTRUCTION MANAGEMENT

## TRANSMITTAL

To: City of Oakland  
250 Frank Ogawa Plaza  
Oakland, CA 94612

Date: 5/16/07 Project No: 0630A

Attn: Keith Mathews/Leroy Griffin

Project: 365 Main – Oakland Data Center

Fax # \_\_\_\_\_

Subject: HMBP Submittal

From: Michael Crivello

**We Transmit:**

- Herewith
- As requested

**Via:**

- Regular Mail
- Courier
- Hand Delivery
- x Fax: \_\_\_\_\_  
(pages incl cover)

**For Your:**

- Records
- Review
- Signature
- Approval
- Information
- Correction
- Use
- Action

**No.**  
**2 Sets**

**Item:**  
**Hazrdous Materials Business Plans**

**Notes:**

Attached for your review and approval is the updated Hazardous materials Business Plan for the improvements to the existing building and yard area for the building located at 720 2<sup>nd</sup> Street in Oakland. Please contact me upon approval at 408-429-3857 (cell) or at the office number below.

Also note for reference the following two building permit numbers: B0700949 & B0701605. Thanks.

CC:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



# MATRIXCM

FACILITIES PLANNING & CONSTRUCTION MANAGEMENT

**Mike Crivello**  
Project Manager

19400 Stevens Creek Blvd.  
Suite 102  
Cupertino, CA 95014  
408.996.0435 Office  
408.996.0495 Fax  
408.429.3857 Mobile  
[mcrivello@matrixcm.com](mailto:mcrivello@matrixcm.com)  
[www.matrixcm.com](http://www.matrixcm.com)

715107

**UNIFIED PROGRAM CONSOLIDATED FORM  
ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH  
BUSINESS ACTIVITIES FORM**

**I. FACILITY IDENTIFICATION**

Page 1 of

FACILITY ID #	0	1	0	0	0										EPA ID # (Hazardous Waste Only)
---------------	---	---	---	---	---	--	--	--	--	--	--	--	--	--	---------------------------------

BUSINESS NAME (Same as Facility Name of DBA-Doing Business As) 3

**II. ACTIVITIES DECLARATION**

**NOTE: If you check YES to any part of this list,  
please submit the Business Owner/Operator Identification page (OES Form 2730).**

Does your facility...	If Yes, please complete these pages of the UPCF....	
<b>A. HAZARDOUS MATERIALS</b>		
Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); <u>or</u> the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; <u>or</u> handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO 4A	HAZARDOUS MATERIALS INVENTORY - (OES 2731)
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 4B	FACILITY IS SUBJECT TO CAL-ARP A RMP meeting State and Federal requirements shall be submitted to the ACDEH
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 4C	Submit copy of ER Plan to ACDEH
<b>B. UNDERGROUND STORAGE TANKS (USTs)</b>		
1. Own or operate underground storage tanks?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 5	UST FACILITY (Formerly SWRCB Form A)
2. Intend to upgrade existing or install new USTs?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 6	UST TANK (one page per tank) (Formerly Form B)
		UST FACILITY
		UST TANK (one per tank)
		UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) (Formerly Form C)
3. Need to report closing a UST?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 7	UST TANK (closure portion -one page per tank)
<b>C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs)</b>		
Own or operate ASTs above these thresholds: ---any tank capacity is greater than 660 gallons, or ---the total capacity for the facility is greater than 1,320 gallons?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO 8	NO FORM REQUIRED TO CUPAS
<b>D. HAZARDOUS WASTE</b>		
1. Generate hazardous waste?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 9	Contact ACDEH- HMBP may be required
2. Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 10	RECYCLABLE MATERIALS REPORT (one per recycler)
3. Treat hazardous waste on site?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 11	ONSITE HAZARDOUS WASTE TREATMENT - FACILITY (Formerly DTSC Forms 1772)
		ONSITE HAZARDOUS WASTE TREATMENT - UNIT (one page per unit) (Formerly DTSC Forms 1772 A,B,C,D and L)
4. Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 12	CERTIFICATION OF FINANCIAL ASSURANCE (Formerly DTSC Form 1232)
5. Consolidate hazardous waste generated at a remote site?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 13	REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION (Formerly DTSC Form 1196)
6. Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 14	HAZARDOUS WASTE TANK CLOSURE CERTIFICATION (Formerly DTSC Form 1249)
<b>E. LOCAL REQUIREMENTS</b>		
1. Annual submittal pursuant to Federal EPCRA requirements?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 15	BUSINESS OWNER/OPERATOR (OES 2730)
2. Is the property owned by an entity other than the business owner?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 16	HAZARDOUS MATERIALS INVENTORY/ CHEMICAL DESCRIPTION (OES 2731)
		PROPERTY OWNER IDENTIFICATION FORM

**UNIFIED PROGRAM CONSOLIDATED FORM**  
**ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH**  
**BUSINESS OWNER/OPERATOR IDENTIFICATION FORM**

**I. IDENTIFICATION**

FACILITY ID#	0 1 0 0 0	BEGINNING DATE	100	ENDING DATE	101
		ASAP		3/10/2008	
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)			3	BUSINESS PHONE	
365 Main, Inc.				415-901-5700	
BUSINESS SITE ADDRESS					
720 2 <sup>nd</sup> Street					
CITY	104	CA	ZIP CODE	105	
Oakland			94607		
DUN & BRADSTREET	106	SIC CODE (4 digit #)			107
COUNTY					108
Alameda					
BUSINESS OPERATOR NAME			109	BUSINESS OPERATOR PHONE	
365 Main, Inc.				415-901-5700	

**II. BUSINESS OWNER**

OWNER NAME	111	OWNER PHONE			112
Chris Dolan		415-901-5700			
OWNER MAILING ADDRESS					
365 Main Street					
CITY	114	STATE	115	ZIP CODE	
San Francisco		CA		94105	

**III. ENVIRONMENTAL CONTACT**

CONTACT NAME	117	CONTACT PHONE			118
Danny Johnson		415-901-5701			
CONTACT MAILING ADDRESS					
365 Main Street					
CITY	120	STATE	121	ZIP CODE	
San Francisco		CA		94105	

**-PRIMARY-**

**IV. EMERGENCY CONTACTS**

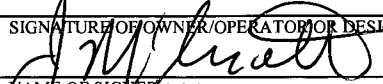
**-SECONDARY-**

NAME	123	NAME	128
Danny Johnson		Ivan Bocanegra	
TITLE	124	TITLE	129
Chief Engineer		Site Facilities	
BUSINESS PHONE	125	BUSINESS PHONE	130
415-901-5701		415-901-5756	
24-HOUR PHONE	126	24-HOUR PHONE	131
415-830-7380		415-264-7418	
PAGER #	127	PAGER #	132
N/A		N/A	

**ADDITIONAL LOCALLY COLLECTED INFORMATION**

- check here if this form is the annual submittal pursuant to Federal EPRCA requirements  
 check here if this form is accompanied by new or modified Hazardous Materials Inventory-Chemical Description page(s)  
 check here if this form is accompanied by a new or modified Business Activity form

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE	134	NAME OF DOCUMENT PREPARER	135
	5-16-07		Sean Tobin (IES)	
NAME OF SIGNER (print)	136	TITLE OF SIGNER	137	
James M'Grath		Sr. Vice President		

# Non-Waste Hazardous Material Inventory Statement

Date: 5/11/2007

For use by Unidocs Member Agencies or where approved by your Local Jurisdiction

Business Name: 365 Main					Type of Report on This Page: <input checked="" type="checkbox"/> Add <input type="checkbox"/> Delete <input type="checkbox"/> Revise			Page <u>1</u> of <u>1</u>					
Chemical Location: 720 2nd Street			EPCRA Confidential Location? Trade Secret Information? No No		Facility ID #								
1. Haz. Class	2. Map and Grid or Location Code	3. Common Name	4. Hazardous Components (For mixtures only)			5. Type and Physical State	6. Quantities			7. Units	8. Storage Codes		9. Hazard Categories
			Chemical Name	% Wt.	EHS		CAS No.	Max. Daily	Average Daily		Largest Cont.	Storage Pressure	
CL-II Irr	A ext. ext.	Diesel Fuel				Pure Liquid	2000	1000	2000	Gal.	1 = Atm	4 = Room Temp	F = Fire C = Chronic
		CAS No.: _____ EHS					Curles	Days On Site	Storage Container*				
		647-41-44-2					365	A					
CL-II Irr	A ext. ext.	Diesel Fuel				Pure Liquid	2000	1000	2000	Gal.	1 = Atm	4 = Room Temp	F = Fire C = Chronic
		CAS No.: _____ EHS					Curles	Days On Site	Storage Container*				
		647-41-44-2					365	A					
CL-II Irr	A ext. ext.	Diesel Fuel				Pure Liquid	2000	1000	2000	Gal.	1 = Atm	4 = Room Temp	F = Fire C = Chronic
		CAS No.: _____ EHS					Curles	Days On Site	Storage Container*				
		647-41-44-2					365	A					
CL-II Irr	B ext. ext.	Diesel Fuel				Pure Liquid	3000	1500	3000	Gal.	1 = Atm	4 = Room Temp	F = Fire C = Chronic
		CAS No.: _____ EHS					Curles	Days On Site	Storage Container*				
		647-41-44-2					365	A					
CL-II Irr	B ext. ext.	Diesel Fuel				Pure Liquid	3000	1500	3000	Gal.	1 = Atm	4 = Room Temp	F = Fire C = Chronic
		CAS No.: _____ EHS					Curles	Days On Site	Storage Container*				
		647-41-44-2					365	A					
CL-II Irr	C ext. ext.	Diesel Fuel				Pure Liquid	3000	1500	3000	Gal.	1 = Atm	4 = Room Temp	F = Fire C = Chronic
		CAS No.: _____ EHS					Curles	Days On Site	Storage Container*				
		647-41-44-2					365	A					
CL-II Irr	C ext. ext.	Diesel Fuel				Pure Liquid	3000	1500	3000	Gal.	1 = Atm	4 = Room Temp	F = Fire C = Chronic
		CAS No.: _____ EHS					Curles	Days On Site	Storage Container*				
		647-41-44-2					365	A					

<b>HAZARD CLASS</b> Aero = Aerosol Carc = Carcinogenic CL = Combustible Liquid CF = Combustible Fiber/Dust Cor = Corrosive CRY = Cryogenic EXP = Explosive	FS = Flammable Solid FG = Flammable Gas FL = Flammable Liquid H.T. = Highly Toxic N/R = Non-Regulated per UFC NFG = Non-Flammable Gas Irr = Irritant OHH = Other Health Hazard	Oxy = Oxidizer Perox = Organic Peroxide Pyro = Pyrophoric Rad = Radioactive Sens = Sensitizer Tox = Toxic UR = Unstable Reactive WR = Water Reactive	<b>*STORAGE/CONTAINER CODES</b> A = Aboveground Tank B = Belowground Tank C = Tank inside building D = Steel Drum E = Plastic or non-metal drum F = Can G = Carboy I = Fiberdrum J = Bag K = Box L = Cylinder M = Glass Bottle or Jug N = Plastic O = Tote Bin P = Tank Wagon	<b>PRESSURE CODES</b> 1 = Atmospheric 2 = Pressurized 3 = Subatmospheric	<b>TEMPERATURE CODES</b> 4 = Room Temperature 5 = Greater than room temp. 6 = Less than room temp. 7 = Cryogenic	<b>If EPCRA, sign below:</b>  <hr/>
---	---	---	--	---	--	---

Note: Quantities reported as "zero" may be present, but in quantities less than significant figures shown.



# Non-Waste Hazardous Material Inventory Statement

Date: 5/11/2007

For use by Unidocs Member Agencies or where approved by your Local Jurisdiction

Business Name: 365 Main						Type of Report on This Page: <input checked="" type="checkbox"/> Add <input type="checkbox"/> Delete <input type="checkbox"/> Revise			Page <u>2</u> of <u>1</u>				
Chemical Location: 720 2nd Street				EPCRA Confidential Location? Trade Secret Information?		No No		Facility ID #					
1. Haz. Class	2. Map and Grid or Location Code	3. Common Name	4. Hazardous Components (For mixtures only)			5. Type and Physical State	6. Quantities			7. Units	8. Storage Codes		9. Hazard Categories
			Chemical Name	% Wt.	EHS		CAS No.	Max. Daily	Average Daily		Largest Cont.	Storage Pressure	
CL-II Irr	C ext. ext.	Diesel Fuel <hr/> CAS No.: _____ EHS 647-41-44-2				Pure Liquid	3000 <hr/> Curlies	1500 <hr/> Days On Site 365	3000 <hr/> Storage Container* M	Gal.	1 = Atm	4 = Room Temp	F = Fire C = Chronic
CL-II Irr	C ext. ext.	Diesel Fuel <hr/> CAS No.: _____ EHS 647-41-44-2				Pure Liquid	3000 <hr/> Curlies	1500 <hr/> Days On Site 365	3000 <hr/> Storage Container* A	Gal.	1 = Atm	4 = Room Temp	F = Fire C = Chronic
D 1 UPS		Lead/Acid Battery Wp-93379, Sealed <hr/> CAS No.: _____ EHS	lead(II) oxide lead lead(II) sulfate Sulfuric Acid 92-98%	20-25 43-70 20-44		Mixture Solid	3489 <hr/> Curlies	1745 <hr/> Days On Site 365	40 <hr/> Storage Container* R	Lbs.	1 = Atm	4 = Room Temp	
E 1 UPS		Lead/Acid Battery Wp-93379, Sealed <hr/> CAS No.: _____ EHS	lead(II) oxide lead lead(II) sulfate Sulfuric Acid 92-98%	20-25 43-70 20-44		Mixture Solid	4979 <hr/> Curlies	2489 <hr/> Days On Site 365	40 <hr/> Storage Container* M	Lbs.	1 = Atm	4 = Room Temp	

The information contained herein is believed to be accurate based on information provided by the User and technical data available from UFC Appendix VI-A, NFPA 49 & 325, Manufacturer's MSDS, Merck, NIOSH and other sources. However, some information may vary by source or manufacturer. Therefore, IES does not claim the information to be all inclusive or guarantee its accuracy. Where there is conflicting information, IES has attempted to apply the more specific information, or classified the materials based on the more restrictive information. It is the responsibility of the chemical user to verify this data, and to store and handle the materials in accordance with all applicable codes, standards and regulations.

Note: Quantities reported as "zero" may be present, but in quantities less than significant figures shown.

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5/11/2007

If EPCRA, sign below:

\_\_\_\_\_

# Appendix D

## Threatened and Endangered Species List



# United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Sacramento Fish And Wildlife Office  
Federal Building  
2800 Cottage Way, Room W-2605  
Sacramento, CA 95825-1846  
Phone: (916) 414-6600 Fax: (916) 414-6713

In Reply Refer To:

October 17, 2019

Consultation Code: 08ESMF00-2020-SLI-0132

Event Code: 08ESMF00-2020-E-00363

Project Name: 285 12th Street Mixed-Use Project

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

## To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, under the jurisdiction of the U.S. Fish and Wildlife Service (Service) that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Please follow the link below to see if your proposed project has the potential to affect other species or their habitats under the jurisdiction of the National Marine Fisheries Service:

[http://www.nwr.noaa.gov/protected\\_species/species\\_list/species\\_lists.html](http://www.nwr.noaa.gov/protected_species/species_list/species_lists.html)

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan ([http://www.fws.gov/windenergy/eagle\\_guidance.html](http://www.fws.gov/windenergy/eagle_guidance.html)). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

---

Attachment(s):

- Official Species List

## Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Sacramento Fish And Wildlife Office**

Federal Building

2800 Cottage Way, Room W-2605

Sacramento, CA 95825-1846

(916) 414-6600

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## Project Summary

Consultation Code: 08ESMF00-2020-SLI-0132

Event Code: 08ESMF00-2020-E-00363

Project Name: 285 12th Street Mixed-Use Project

Project Type: Federal Grant / Loan Related

**Project Description:** The proposed project would construct a seven-story building containing 65 residential units and approximately 3,500 square feet of commercial space on the ground floor. The podium apartment structure would be approximately 83 feet tall to the roof and 93 feet tall to the top of the elevator shaft. An approximately 2,300 square-foot outdoor courtyard would be located on the second floor at the southeast corner of the building.

**Project Location:**

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/37.801226611200555N122.26829787579851W>



Counties: Alameda, CA

---

## Endangered Species Act Species

There is a total of 12 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

- 
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

### Mammals

NAME	STATUS
Salt Marsh Harvest Mouse <i>Reithrodontomys raviventris</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/613">https://ecos.fws.gov/ecp/species/613</a>	Endangered

### Birds

NAME	STATUS
California Clapper Rail <i>Rallus longirostris obsoletus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4240">https://ecos.fws.gov/ecp/species/4240</a>	Endangered
California Least Tern <i>Sterna antillarum browni</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/8104">https://ecos.fws.gov/ecp/species/8104</a>	Endangered
Western Snowy Plover <i>Charadrius nivosus nivosus</i> Population: Pacific Coast population DPS-U.S.A. (CA, OR, WA), Mexico (within 50 miles of Pacific coast) There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/8035">https://ecos.fws.gov/ecp/species/8035</a>	Threatened

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## Reptiles

NAME	STATUS
Alameda Whipsnake (=striped Racer) <i>Masticophis lateralis euryxanthus</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/5524">https://ecos.fws.gov/ecp/species/5524</a>	Threatened
Green Sea Turtle <i>Chelonia mydas</i> Population: East Pacific DPS No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/6199">https://ecos.fws.gov/ecp/species/6199</a>	Threatened

## Amphibians

NAME	STATUS
California Red-legged Frog <i>Rana draytonii</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/2891">https://ecos.fws.gov/ecp/species/2891</a> Species survey guidelines: <a href="https://ecos.fws.gov/ipac/guideline/survey/population/205/office/11420.pdf">https://ecos.fws.gov/ipac/guideline/survey/population/205/office/11420.pdf</a>	Threatened

## Fishes

NAME	STATUS
Delta Smelt <i>Hypomesus transpacificus</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/321">https://ecos.fws.gov/ecp/species/321</a>	Threatened
Tidewater Goby <i>Eucyclogobius newberryi</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/57">https://ecos.fws.gov/ecp/species/57</a>	Endangered

## Insects

NAME	STATUS
San Bruno Elfin Butterfly <i>Callophrys mossii bayensis</i> There is <b>proposed</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/3394">https://ecos.fws.gov/ecp/species/3394</a>	Endangered

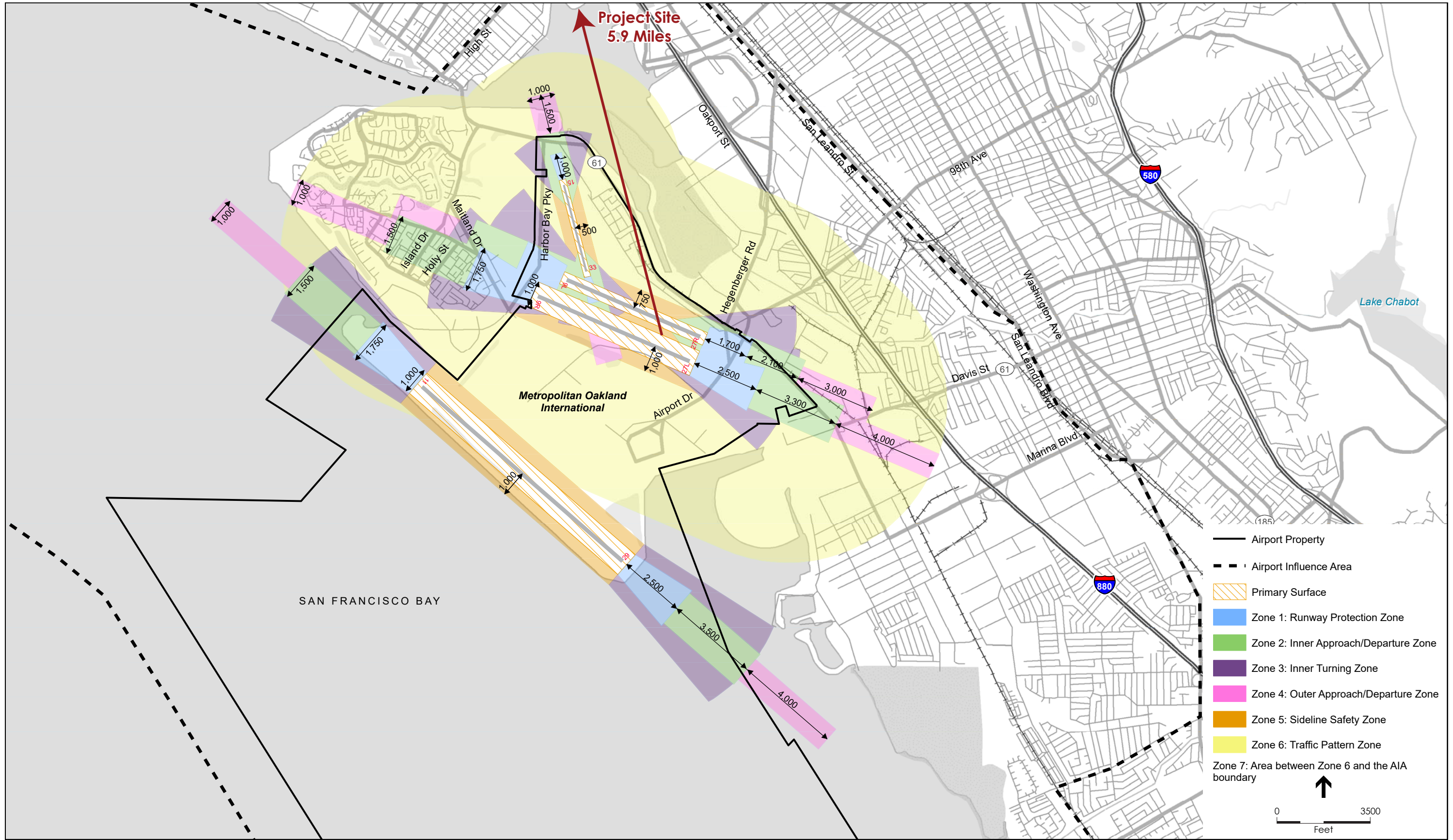
## Flowering Plants

NAME	STATUS
<p>California Seablite <i>Suaeda californica</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/6310">https://ecos.fws.gov/ecp/species/6310</a></p>	Endangered
<p>Santa Cruz Tarplant <i>Holocarpha macradenia</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/6832">https://ecos.fws.gov/ecp/species/6832</a></p>	Threatened

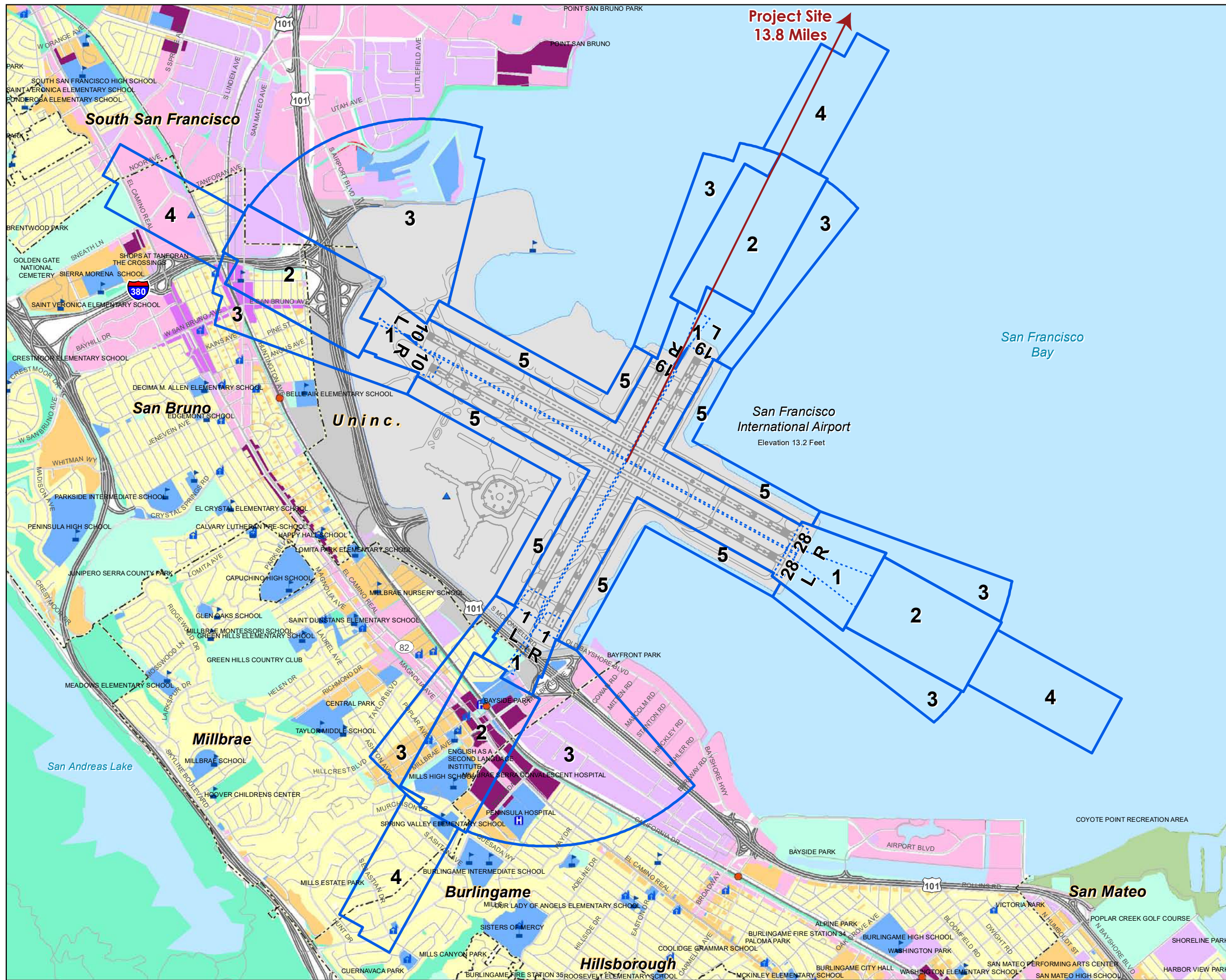
## Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

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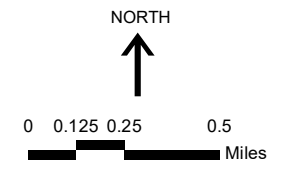


**LEGEND**

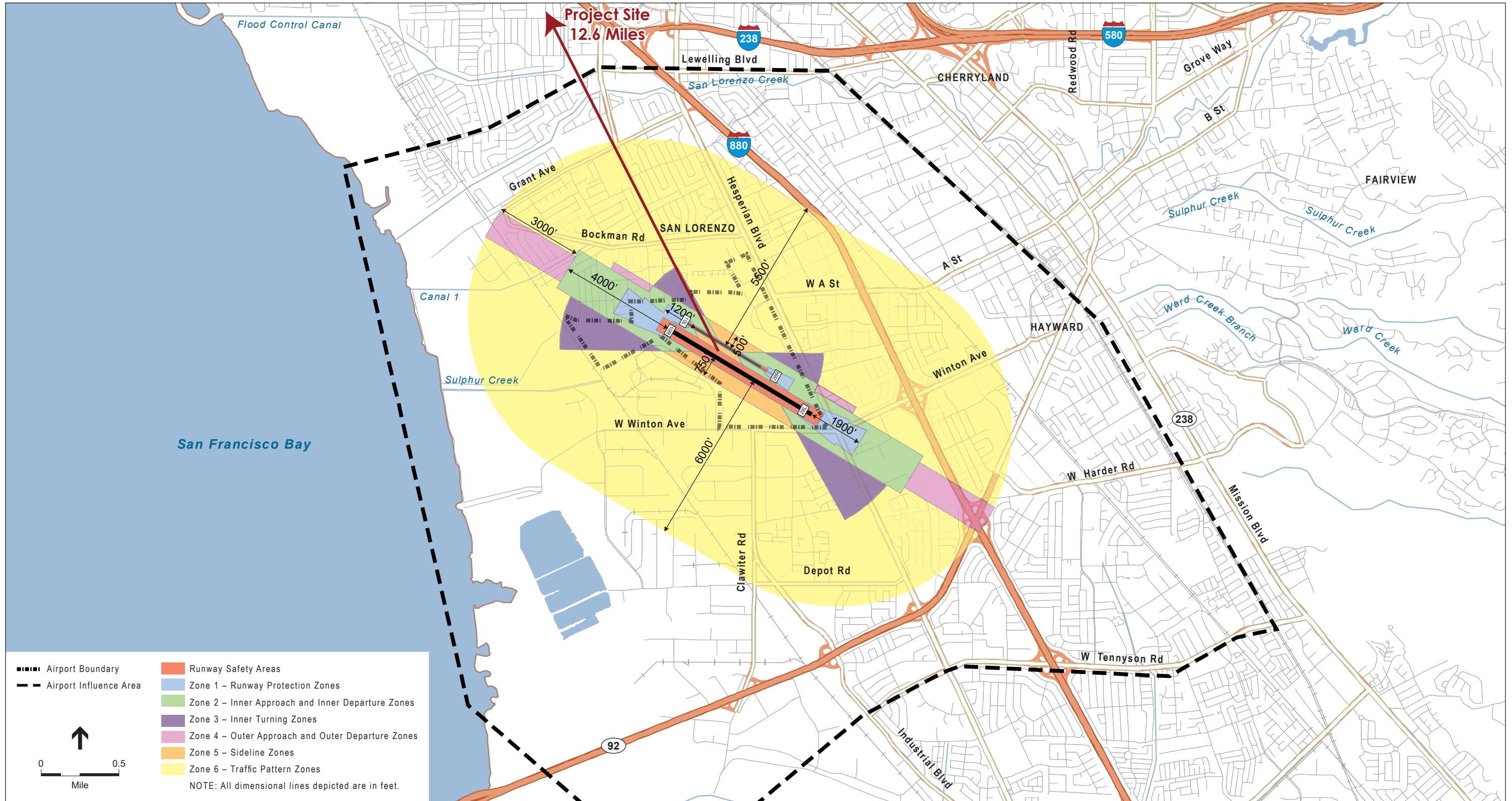
- Safety Compatibility Zones**
- 1 - Runway Protection Zone-Object Free Area
  - 2 - Inner Approach/Departure Zone
  - 3 - Inner Turning Zone
  - 4 - Outer Approach/Departure Zone
  - 5 - Sideline Zone

- - - Internal boundaries of ALP-defined areas
  - ▭ Airport Property
  - ▲ BART Station
  - CALTRAIN Station
  - 🏫 School
  - 🕌 Place of Worship
  - 🏥 Hospital
  - - - Municipal Boundary
  - 🚊 Railroad
  - 🛣️ Freeway
  - 🛣️ Road
- Planned Land Use Per General Plans:**
- Public
  - Multi-Family Residential
  - Single Family Residential
  - Mixed Use
  - Transit Oriented Development
  - Commercial
  - Industrial, Transportation, and Utilities
  - Local Park, Golf Course, Cemetery
  - Regional Park or Recreation Area
  - Open Space
  - Planned use not mapped

- Sources:**
- Safety Compatibility Zones:**
- Jacobs Consultancy Team, 2009; Ricondo & Associates, Inc., 2011
- County Base Maps:**
- San Mateo County Planning & Building Department, 2007
- Local Plans:**
- Burlingame Bayfront Specific Area Plan, August 2006
  - Burlingame Downtown Specific Plan, January 2009
  - Burlingame General Map, September 1984
  - North Burlingame/ Rollins Road Specific Plan, February 2007
  - Colma Municipal Code Zoning Maps, December 2003
  - Daly City General Plan Land Use Map, 1987
  - Hillsborough General Plan, March 2005
  - Millbrae Land Use Plan, November 1998
  - Pacifica General Plan, August 1996
  - San Bruno General Plan, December 2008
  - San Mateo City Land Use Plan, March 2007
  - San Mateo County Zoning Map, 1992
  - South San Francisco General Plan, 1998











**FLOOD HAZARD INFORMATION**

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT  
**THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT [HTTP://MSC.FEMA.GOV](http://MSC.FEMA.GOV)**

	Without Base Flood Elevation (BFE) Zone A, V, A99
	With BFE or Depth Zone AE, AO, AH, VE, AR
	Regulatory Floodway
	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
	Future Conditions 1% Annual Chance Flood Hazard Zone X
	Area with Reduced Flood Risk due to Levee See Notes. Zone X
	Area with Flood Risk due to Levee Zone D
	Area of Minimal Flood Hazard Zone X
	Area of Undetermined Flood Hazard Zone D
	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall
	Cross Sections with 1% Annual Chance Water Surface Elevation
	Coastal Transect
	Coastal Transect Baseline
	Profile Baseline
	Hydrographic Feature
	Base Flood Elevation Line (BFE)
	Limit of Study
	Jurisdiction Boundary

**NOTES TO USERS**

For information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-338-2627) or visit the FEMA Map Service Center website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website. Users may determine the current map date for each FIRM panel by visiting the FEMA Map Service Center website or by calling the FEMA Map Information eXchange.

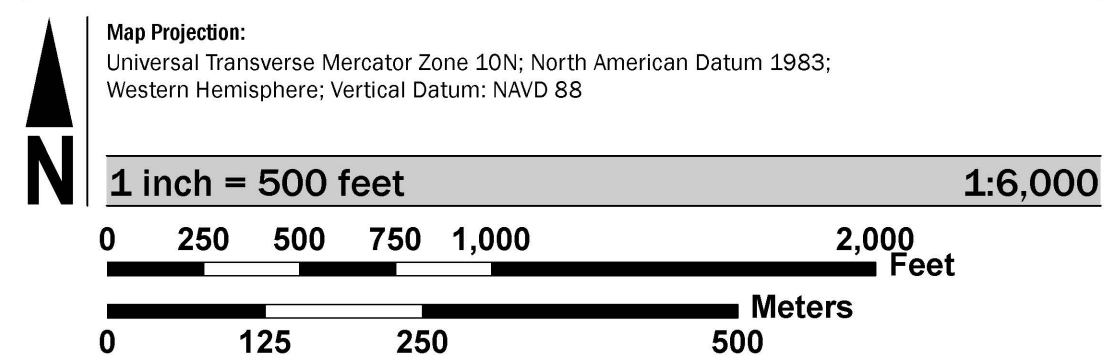
Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM index. These may be ordered directly from the Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study report for this jurisdiction.

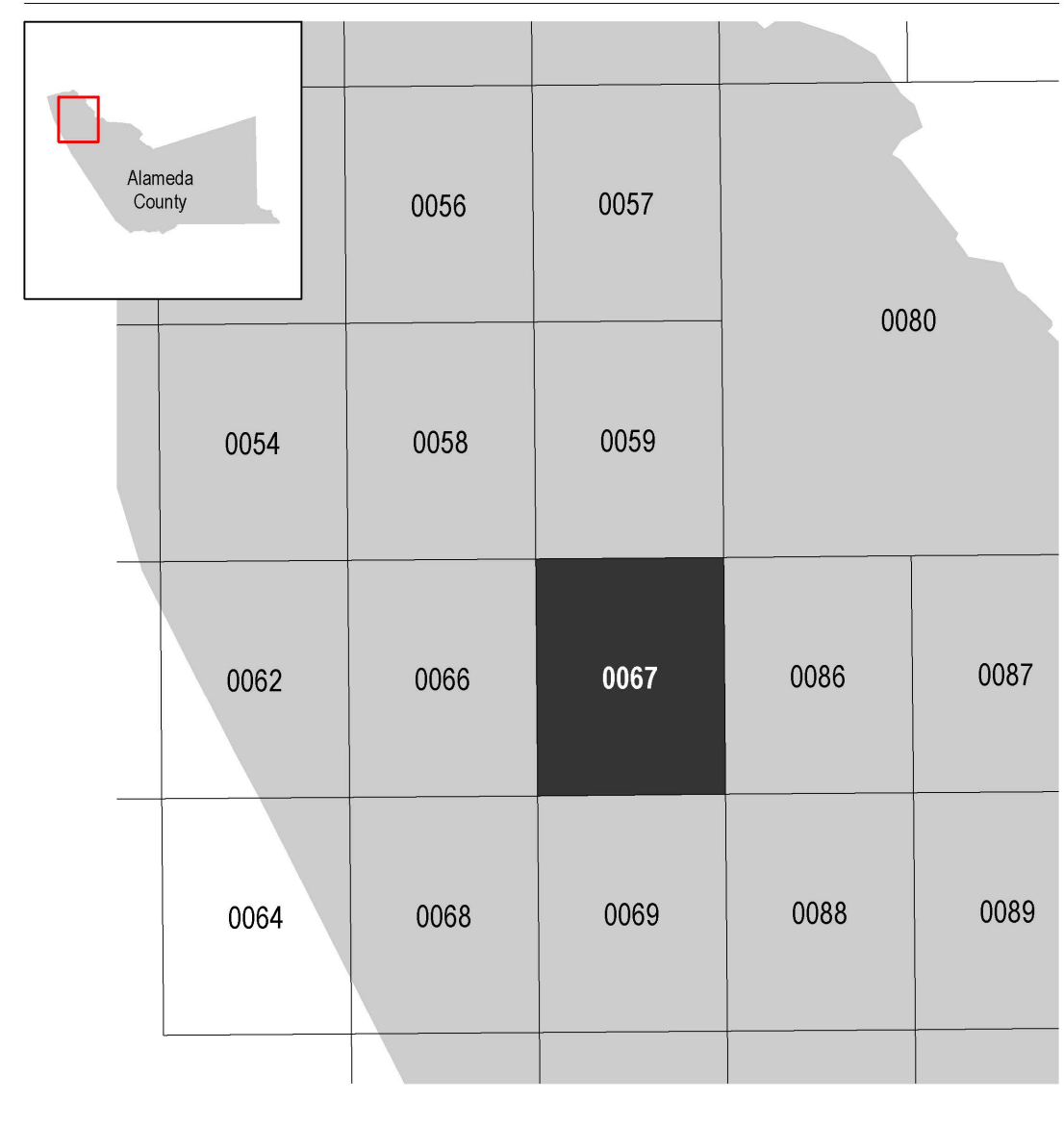
To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on this FIRM was derived from Coastal California LIDAR and Digital Imagery dated 2011. USDA NAIP 2012 imagery is used in areas not covered by the Coastal California imagery.

**SCALE**



**PANEL LOCATOR**



**National Flood Insurance Program**

**NATIONAL FLOOD INSURANCE PROGRAM**  
**FLOOD INSURANCE RATE MAP**

**ALAMEDA COUNTY, CALIFORNIA**  
 and Incorporated Areas

PANEL 67 OF 725

Panel Contains:  
**COMMUNITY**  
 ALAMEDA, CITY OF OAKLAND, CITY OF

NUMBER	PANEL	SUFFIX
060002	0067	H
065048	0067	H

VERSION NUMBER  
2.3.2.0

MAP NUMBER  
06001C0067H

MAP REVISED  
DECEMBER 21, 2018