

November 22, 2017
Report 0774.R1

Mr. Jim Feeley
TDP-Webster, LLC
39 Forrest Street, Suite 201
Mill Valley, CA 94941

SUBJECT: UNDERGROUND STORAGE TANK CLOSURE REPORT
2330 Webster Street
Oakland, CA 94612

Dear Mr. Feeley:

Terracon Consultants, Inc. (Terracon) has prepared this report documenting the removal of one 325-gallon capacity former underground storage tank (UST) from the property located at 2330 Webster Street in Oakland, California (Site) and the completion of UST closure activities at the Site under the oversight of the Alameda County Department of Environmental Health (ACDEH). Based on the type of petroleum hydrocarbons detected in soil beneath the former UST, it is suspected that the former UST previously contained fuel oil. The former UST was discovered during excavation activities associated with redevelopment of the Site. The UST was removed from the Site on August 29, 2017 and properly disposed of at offsite disposal facilities, as discussed below. Analysis of soil and groundwater samples collected at the Site on September 15, 2017 following removal of the UST indicate that residual contaminants present in soil and groundwater in the vicinity of the former UST do not pose a risk to human health or the environment. Based on the field conditions observed beneath and adjacent to the former UST, and the analytical results of soil and groundwater samples collected at the Site, no further action is warranted with respect to closure of the former UST.

A Site Location Map (Figure 1), a Site Vicinity Aerial Photograph showing the location of the former UST at the Site (Figure 2), and a Site Aerial Photograph showing sample collection locations (Figure 3) are attached with this report.

BACKGROUND

The Site is presently being developed by TDP-Webster, LLC of Mill Valley, California (TDP) for construction of a 234-unit apartment building. A former UST was encountered by Granite Excavation and Demolition, Inc. of 160 S. Linden Ave, Suite 100 in South San Francisco, California (Granite) during excavation of soil for construction of an underground parking structure associated with the Site development. Granite is a Class A, HAZ licensed contractor. The former UST was reportedly discovered at a depth of approximately 3 to 4 feet below the ground surface (bgs). The former UST reportedly measured approximately 3 feet in diameter and 6 feet in length, was constructed of single-wall bare steel, was filled with concrete, and reportedly had no visible holes. Based on the presence of the concrete inside the former UST it appears that the former UST

had been previously closed in place. Because the former UST was filled with cement it was not possible or necessary to render the former UST interior atmosphere inert. A picture of the former UST is attached with this report as Appendix A.

The steel of the former UST and the concrete present inside the former UST were demolished and transported offsite for disposal by Granite. The concrete was reportedly disposed of at the Argent Materials facility in Oakland, California. A copy of the Argent Materials weighmaster certificate is attached with this report as Appendix B. The interior of the former UST was reportedly triple-rinsed by Granite prior to disposal. A copy of the Certificate of Triple Rinse is attached with this report as Appendix C. The steel of the former UST was reportedly transported by Granite and disposed of at Alco Iron and Metal in San Leandro, California. A copy of the Alco Metals Receiving Ticket is attached with this report as Appendix D.

It is our understanding that on August 30, 2017, Granite personnel collected samples of loose discolored soil from the ground surface in the area of the former UST in three stainless steel tubes. The sample designations were Sample 1, Sample 2, and Sample 3. The stainless-steel tubes were subsequently delivered to McCampbell Analytical, Inc. in Pittsburg, California (McCampbell) with a chain of custody document for analysis.

The samples were analyzed for the following constituents for offsite disposal characterization:

- Total Petroleum Hydrocarbons (TPH) as gasoline, diesel and motor oil with silica gel cleanup using EPA method 8015B and 8015Bm.
- Volatile Organic Compounds (VOCs) using EPA Method 8260B.
- Semivolatile organic compounds using EPA Method 8270.
- PCBs by EPA Method 8081.
- CAM 17 Metals using EPA Method 200.8/6020.
- Asbestos using CARB Method 435.

The sample results are summarized in Tables 1A and 1B of this report. Copies of the laboratory report and chain of custody documentation are attached with this report as Appendix E.

Following removal of the former UST on August 29, 2017 and soil sample collection on August 30, 2017, the soil in the vicinity of the former UST location was excavated to a depth of approximately 9 feet bgs and the adjacent area to the east of the former UST was excavated to a depth of approximately 13.5 feet bgs for the planned construction of the underground parking garage.

The discovery of the former UST was reported to ACDEH on September 14, 2017 and a UST Closure Plan was completed and submitted to ACDEH. ACDEH subsequently approved the UST Closure Plan.

FIELD ACTIVITIES

Terracon personnel met with Ms. Barbara Jakub and Ms. Dilan Roe of the ACDEH at the Site on September 15, 2017 to inspect the former UST location and to collect one soil sample and one

groundwater sample from beneath the former UST location. During the site visit, Mr. Jim Feeley of TDP identified the location where the former UST had been discovered. At the time of the inspection, the exposed soil surface in this area was approximately 9 feet bgs as a result of the excavation activities described above. Following review of site conditions, Ms. Jakub and Ms. Roe directed the exploratory hand augering and collection of one soil sample and one groundwater sample as follows:

A 3.5-inch outside diameter hand auger was used to excavate to a depth of 2 feet below the exposed soil surface of 9 feet bgs to a depth of 11 feet bgs. A slide hammer was used to drive a 2-inch diameter, 6-inch long stainless-steel tube into the bottom of the borehole for the collection of one soil sample from below the former UST designated as T1-11.0. After the tube had been filled with soil so that no headspace was present, the tube was removed from the sampler and the ends of the tube were sequentially covered with aluminum foil and plastic endcaps. The tube was subsequently labeled and stored in a cooler with ice pending delivery to McCampbell. Chain of custody procedures were observed for all sample handling. Ms. Jakub and Ms. Roe were onsite to observe the hand augering and sample collection.

The soil encountered in the borehole consisted of brown sandy and silty clay. No staining or discoloration were observed in the soil, and no petroleum hydrocarbon odors were detected in the soil. The soil excavated from the borehole was evaluated with a Photoionization Detector (PID) that was calibrated with a 100 ppm isobutylene standard. No organic vapors were detected with the PID in any of the soil excavated from the borehole or in the soil sample.

A second borehole, designated as location B12, was installed at a location approximately 6 feet to the east of the T-11.0 sampling location. At the B12 sampling location, the exposed soil surface was approximately 13.5 feet bgs as a result of the excavation activities described above. The B12 borehole was hand augered from 13.5 feet bgs to a depth of approximately 22 feet bgs. Groundwater was encountered in the borehole at a depth of approximately 18.5 feet bgs. The soil encountered in the borehole consisted of brown sandy silty clay with increasing sand content with increasing depth, and gray discoloration above the groundwater. No petroleum hydrocarbon odors were detected in the soil or groundwater from the borehole, and no free product or sheen were observed on the water. No organic vapors were detected with the PID in any of the soil excavated from the borehole for the groundwater sample. Ms. Jakub and Ms. Roe were onsite to observe hand augering of the borehole for groundwater sample collection and for evaluation of groundwater from the borehole.

One groundwater sample designated as B12-W was collected from the borehole using a peristaltic pump and new polyethylene tubing. New silicone tubing was used in the peristaltic pump rollers. The groundwater sample was collected directly from the discharge tubing and placed into two unpreserved 500-milliliter polys, three unpreserved 1-liter ambers, 2 unpreserved 40-milliliter amber Volatile Organic Analysis (VOA), and five 40-milliliter clear VOAs preserved with HCl with Teflon-lined screw-on caps. The VOAs were overturned and tapped to ensure that no air

bubbles were present. The sample bottles were labeled and stored in a cooler with ice pending delivery to McCampbell. Chain of custody procedures were observed for all sample handling.

LABORATORY ANALYSIS

The soil sample collected from beneath the former UST and the groundwater sample collected from adjacent to the former UST were analyzed for unknown UST constituents, consistent with ACDEH requirements, as follows:

- TPH as gasoline, diesel and motor oil (the groundwater sample was also analyzed for bunker oil) using EPA method 8015B and 8015Bm.
- VOCs including MTBE, benzene, toluene, ethylbenzene, and xylenes (MBTEX) using EPA Method 8260B.
- Semivolatile organic compounds using EPA Method 8270.
- PCBs by EPA Method 8081.
- CAM 17 Metals using EPA Method 200.8/6020.

The laboratory analytical results of the soil sample are summarized in Table 2, and the laboratory analytical results of the groundwater sample are summarized in Table 3. Copies of the laboratory reports and chain of custody documentation are attached with this report in Appendix E.

DISCUSSION AND RECOMMENDATIONS

Based on Terracon's review of the groundwater flow direction at nearby sites, the groundwater flow direction at the Site is expected to be easterly, consistent with the surface topography, and towards Lake Merritt, which is located approximately 1,100 feet from the Site. Therefore, the B12 borehole, which was hand augered for groundwater sample collection, was located approximately 6 feet downgradient of the former UST.

Review of Tables 1A and 1B for soil disposal characterization, Table 2 for soil collected from beneath the former UST (T1-11.0 sampling location), and for groundwater collected from adjacent to, and downgradient from, the former UST (B12) demonstrates the following:

- Soil Sample Collected From Beneath Former UST (Sample Location T1-11.0): No organic compounds were detected and no metals were detected at concentrations exceeding their respective San Francisco Bay Regional Water Quality Control Board (SFRWQCB) February 2016 (Revision 3) Tier 1 soil screening level (for residential use) concentrations in the soil sample collected from beneath the former UST (see Table 2).
- Groundwater Sample (Sample Location B12-W): No organic compounds were detected and no metals were detected in the groundwater sample collected from adjacent to, and downgradient from, the former UST (see Table 3), with the following exceptions:

- 160 micrograms per liter (ug/L) of TPH as motor oil (TPH-MO).
- 160 ug/L of TPH as bunker oil (TPH-BO).
- 5.9 ug/L of chloroform.
- 0.51 ug/L of 1,1-Dichloroethene.
- 9.9 ug/L of nickel.

These concentrations are all below the SFRWQCB Tier 1 screening levels for residential use with the exception of the detection of chloroform at a concentration of 5.9 ug/L, which exceeds the Tier 1 screening level of 2.3 ug/L, and the detection of nickel at a concentration of 9.9 ug/L, which slightly exceeds the Tier 1 screening level of 8.2 ug/L. The detected chloroform groundwater concentration does not exceed the groundwater February 2016 Regional Water Quality Control Board (revision 3) Table GW-3 screening level for groundwater vapor intrusion for shallow groundwater for commercial land use, and for this reason is not present at a concentration that is likely to result in a complete exposure pathway for human exposure. Similarly, the detected nickel groundwater concentration is not a concern because the source for water at the site is a municipal supply, groundwater at the Site is not used at the Site, and for this reason human exposure to nickel in groundwater at the site is not a complete pathway for exposure.

- The chloroform and 1,1,-Dichloroethene detected in the groundwater sample are not associated with petroleum fuels. The source of these compounds is unknown, and they have also been historically detected at the Site in groundwater at similar concentrations. The following historical Site documents have identified the presence of these compounds at the subject Site:
 - 1/11/2010 - Phase I Environmental Site Assessment Report prepared by Ninyo & Moore.
 - 3/4/2010 - Phase II Environmental Site Assessment prepared by Ninyo & Moore.
 - 4/29/2015 - Peer Review of Environmental Assessment Reports prepared by RGA/Terracon.
 - 5/30/2017 - Work Plan for Subsurface Investigation prepared by RGA/Terracon.
 - 7/6/2017 - Site Cleanup Program Case RO0003247 Results of Subsurface Investigation prepared by RGA/Terracon.
- The source of the nickel detected in the groundwater sample is unknown. The absence of nickel detected in the soil sample collected from beneath the former UST at concentrations exceeding the Tier 1 soil screening level indicate that the nickel detected in groundwater does not appear to be associated with the former UST. Additionally, the detected nickel groundwater concentration is not a concern because the source for water at the site is a municipal supply, groundwater at the Site is not used at the Site, and for this reason human exposure to nickel in groundwater at the site is not a complete pathway for exposure.
- Soil Samples Collected for Offsite Disposal Characterization: No organic compounds were detected and no metals were detected at concentrations exceeding their respective

SFRWQCB Tier 1 (residential use) soil screening levels in the soil samples collected for offsite disposal characterization (see Tables 1A and 1B) with the following exceptions:

- Naphthalene at concentrations ranging from 0.033 to 0.22 milligrams per kilogram (mg/kg).
 - TBA at a concentration of 0.43 mg/kg.
 - 2-Methylnaphthalene at concentrations of 0.38 and 0.79 mg/kg.
 - Arsenic at concentrations ranging from 4.8 to 9.2 mg/kg.
- None of the compounds detected at concentrations exceeding their respective screening levels in soil that was characterized for offsite disposal were detected in the soil sample collected from beneath the former UST (T1-11.0) or in the groundwater sample (B12-W). This indicates that the soil excavation activities that were performed following removal of the UST were effective in removing soil impacted by these constituents at concentrations exceeding applicable screening levels.
 - The arsenic concentrations detected in the soil samples that were collected for characterization of soil for offsite disposal are consistent with San Francisco Bay background arsenic concentrations. The SFRWQCB has identified arsenic concentrations of less than 11 mg/kg as consistent with San Francisco Bay Area background concentrations.

UST Closure activities at the Site have been completed, consistent with the requirements of the ACDEH-approved UST Closure Plan for the Site. Residual concentrations of constituents in soil and groundwater remaining at the Site following UST removal activities, as discussed above, do not pose a risk to human health or the environment. Based on the field conditions observed beneath and adjacent to the former UST, and the soil and groundwater sampling results discussed above, no further action is warranted with respect to closure of the former UST.

LIMITATIONS

This report was prepared solely for the use of TDP-Webster, LLC. The content and conclusions provided by Terracon in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual Site inspections; interviews with the Site owner, regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgment based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between borings and may not necessarily apply to the general Site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly revealed conditions must be evaluated and may invalidate the findings of this report.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility

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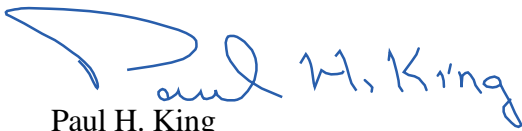
of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. Terracon is not responsible for the accuracy or completeness of information provided by other individuals or entities which is used in this report. This report presents our professional judgment based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

Should you have any questions, please do not hesitate to contact us at (510) 658-4363.

Sincerely,

Terracon Consultants, Inc.



Paul H. King
Professional Geologist #5901
Expires: 12/31/17



Attachments:

Table 1A Summary of Soil Sample Analytical Results For Soil Disposal Characterization
- Organic Analytes

Table 1B Summary of Soil Sample Analytical Results For Soil Disposal Characterization
- Inorganic Analytes

Table 2 Summary of Soil Sample Analytical Results For Former UST Soil Characterization

Table 3 Summary of Groundwater Sample Analytical Results For Former UST Groundwater Characterization

Figure 1 - Site Location Map

Figure 2 - Site Vicinity Aerial Photograph

Figure 3 - Site Aerial Photograph Showing Sample Collection Locations

Appendix A - UST Photograph

Appendix B - Weighmaster Certificate For Concrete Disposal

Appendix C - Certificate of Triple Rinse For Former UST

Appendix D - Alco Iron and Metal Receiving Ticket For Former UST

Appendix E - Laboratory Analytical Reports and Chain of Custody Documentation

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TABLES

Table 1A
 Summary of Soil Sample Analytical Results for Soil Disposal Characterization - Organic Analytes

Sample ID	Sample Date	TPH-G	TPH-D	TPH-MO	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Other VOCs Using EPA Method 8260	SVOCs Using EPA Method 8270	PCBs Using EPA Method 8082A
Sample 1	8/30/2017	2.2, a	3.3, b,c	6.6, b,c	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND, except Naphthalene = 0.18	ND, except 2-Methylnaphthalene = 0.38	All ND
Sample 2	8/30/2017	1.6, a	1.4, b,c	5.7, b,c	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND, except Naphthalene = 0.033 , TBA = 0.43 , n-Butyl benzene = 0.0094, n-Propyl benzene = 0.0052	All ND	All ND
Sample 3	8/30/2017	7.4, a	11, b,c,d	44, b,c,d	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND, except Naphthalene = 0.22	ND, except 2-Methylnaphthalene = 0.79	All ND
ESL		100	230	5,100	0.023	0.044	2.9	1.4	2.3	Naphthalene = 0.033, TBA = 0.075, n-Butyl benzene = No Value, n-Propyl benzene = No Value	2-Methylnaphthalene = 0.25	0.25
NOTES												
TPH-G = Total Petroleum Hydrocarbons as Gasoline.												
TPH-D = Total Petroleum Hydrocarbons as Diesel.												
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.												
MTBE = Methyl-tert-Butyl Ether												
VOCs = Volatile Organic Compounds.												
SVOCs = Semi-Volatile Organic Compounds.												
PCBs = Poly-Chlorinated Biphenyls.												
TBA = tert-Butyl Alcohol.												
ND = Not Detected.												
a = Laboratory note: strongly aged gasoline or diesel range compounds are significant in the TPH-G chromatogram.												
b = Laboratory note: oil range compounds are significant.												
c = Laboratory note: diesel range compounds are significant; no recognizable pattern.												
d = Laboratory note: pattern resembles kerosene/kerosene range/jet fuel range.												
ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated February 2016 (Revision 3), Soil Tier 1 ESL from Summary of Soil ESLs.												
Results in bold exceed their respective ESL values.												
Results and ESLs reported in milligrams per kilogram (mg/kg) unless otherwise specified.												

Table 1B
Summary of Soil Sample Analytical Results for Soil Disposal Characterization - Inorganic Analytes

Borehole ID	Sample Date	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Sample 1	8/30/2017	ND<0.50	9.2	17	ND<0.50	ND<0.25	42	7.6	4.3	6.4	ND<0.050	ND<0.50	42	ND<0.50	ND<0.50	ND<0.50	28	25
Sample 2	8/30/2017	ND<0.50	4.8	54	ND<0.50	ND<0.25	34	9.1	7.0	9.2	ND<0.050	ND<0.50	45	ND<0.50	ND<0.50	ND<0.50	31	31
Sample 3	8/30/2017	ND<0.50	6.1	29	ND<0.50	ND<0.25	37	8.0	6.1	11	ND<0.050	ND<0.50	39	ND<0.50	ND<0.50	ND<0.50	32	30
ESL		31	0.067	3,000	42	39	No Value	23	3,100	80	13	390	86	390	390	0.78	390	23,000
NOTES:																		
Sb = Antimony; As = Arsenic; Ba = Barium; Be = Beryllium; Cd = Cadmium; Cr = Chromium; Co = Cobalt; Cu = Copper; Pb = Lead; Hg = Mercury; Mo = Molybdenum;																		
Ni = Nickel; Se = Selenium; Ag = Silver; Tl = Thallium; V = Vanadium; Zn = Zinc																		
ND = Not Detected.																		
ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated February 2016 (Revision 3), Soil Tier 1 ESL from Summary of Soil ESLs.																		
Results in bold exceed their respective ESL values.																		
Results and ESLs reported in milligrams per kilogram (mg/kg) unless otherwise specified.																		

Table 2
Summary of Soil Sample Analytical Results for Former UST Soil Characterization

Sample ID	Sample Date	Sample Depth (feet)	TPH-G	TPH-D	TPH-MO	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Other VOCs Using EPA Method 8260	SVOCs Using EPA Method 8270	PCBs Using EPA Method 8082A	Cd	Cr	Pb	Ni	Zn
T1-11.0	9/15/2017	11.0	ND<1.0	ND<1.0	ND<5.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	All ND	All ND	All ND	ND<0.25	48	4.8	62	35
ESL			100	230	5,100	0.023	0.044	2.9	1.4	2.3	Various	Various	Various	39	No Value	80	86	23,000
NOTES																		
TPH-G = Total Petroleum Hydrocarbons as Gasoline																		
TPH-D = Total Petroleum Hydrocarbons as Diesel																		
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.																		
MTBE = Methyl-tert-Butyl Ether																		
VOCs = Volatile Organic Compounds																		
SVOCs = Semi-Volatile Organic Compounds																		
PCBs = Poly-Chlorinated Biphenyls																		
Cd = Cadmium; Cr = Chromium; Pb = Lead; Ni = Nickel; Zn = Zinc																		
ND = Not Detected.																		
ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated February 2016 (Revision 3), Soil Tier 1 ESL from Summary of Soil ESLs.																		
Results and ESLs reported in milligrams per kilogram (mg/kg) unless otherwise indicate																		

Table 3
Summary of Groundwater Sample Analytical Results for Former UST Groundwater Characterization

Sample ID	Sample Date	TPH-G	TPH-D	TPH-MO	TPH-BO	MTBE	Benzene	Toluene	Ethylbenzene	Total Xylenes	Other VOCs Using EPA Method 8260	SVOCs Using EPA Method 8270	PCBs Using EPA Method 8082A	Cd	Cr	Pb	Ni	Zn
B12-W	9/15/2017	ND<50	ND<49	160, a	160, a	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND, except Chloroform = 5.9, 1,1-DCE = 0.51	All ND	All ND	ND<0.25	ND<0.50	ND<0.50	9.9	ND<15
ESL ¹		100	100	50,000	50,000	5.0	1.0	40	13	20	Chloroform = 2.3, 1,1-DCE = 3.2	Various	Various	0.25	50	2.5	8.2	81
ESL ²		No Value	No Value	No Value	No Value	11,000	9.7	30,000	110	11,000	Chloroform = 20, 1,1-DCE = 1,400	Various	Various	No Value	No Value	No Value	No Value	No Value
<p>NOTES:</p> <p>TPH-G = Total Petroleum Hydrocarbons as Gasoline. TPH-D = Total Petroleum Hydrocarbons as Diesel. TPH-MO = Total Petroleum Hydrocarbons as Motor Oil. TPH-BO = Total Petroleum Hydrocarbons as Bunker Oil. MTBE = Methyl-tert-Butyl Ether. VOCs = Volatile Organic Compounds. SVOCs = Semi-Volatile Organic Compounds. PCBs = Poly-Chlorinated Biphenyls. Cd = Cadmium; Cr = Chromium; Pb = Lead; Ni = Nickel; Zn = Zinc 1,1-DCE = 1,1-Dichloroethene ND = Not Detected. a = Laboratory note: oil range compounds are significant.</p> <p>ESL¹ = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated February 2016 (Revision 3), Groundwater Tier 1 ESL from Summary of Groundwater ESLs. ESL² = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated February 2016 (Revision 3), from Table GW-3 – Groundwater Vapor Intrusion Human Health Risk Screening Levels. Shallow Groundwater. Commercial/Industrial Land Use. Results in BOLD exceed their respective ESL¹ value. Results and ESLs reported in micrograms per liter (µg/L) unless otherwise indicated</p>																		

FIGURES

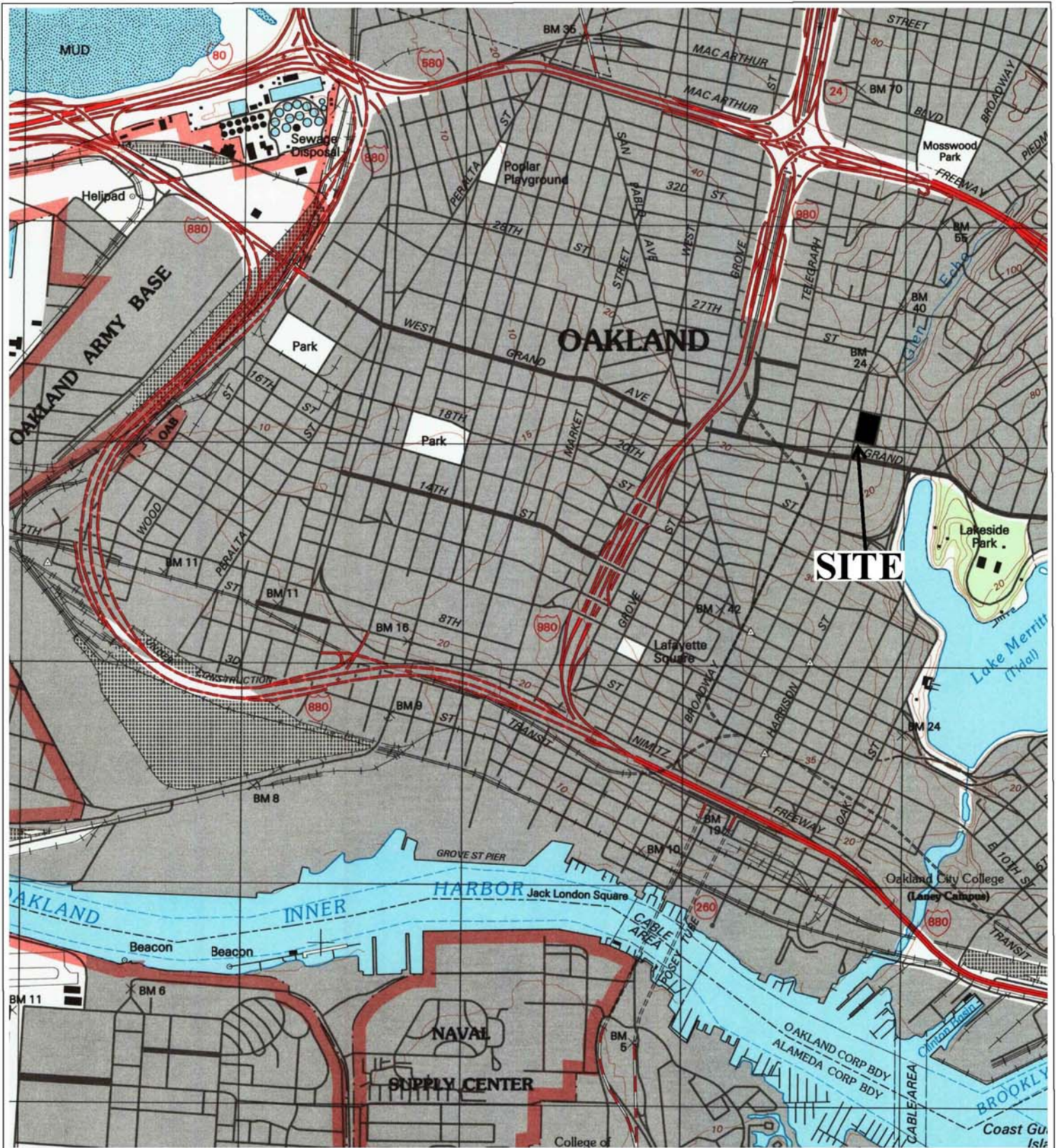


Figure 1
 Site Location Map
 2330 Webster Street
 Oakland, California

Basemap from:
 U.S. Geological Survey 7.5-Minute Quadrangle,
 Oakland West, California, Map edited 1996

Terracon
 55 Santa Clara Ave., Suite 240
 Oakland, CA 94610

0 1,000 2,000
 Approximate Scale in Feet





Figure 2
Site Vicinity Aerial Photograph
2330 Webster Street
Oakland, California

Basemap from:
Google Earth, March 2017

Terracon
55 Santa Clara Avenue, Suite 240
Oakland, California 94610

0 50 100
Approximate Scale in Feet



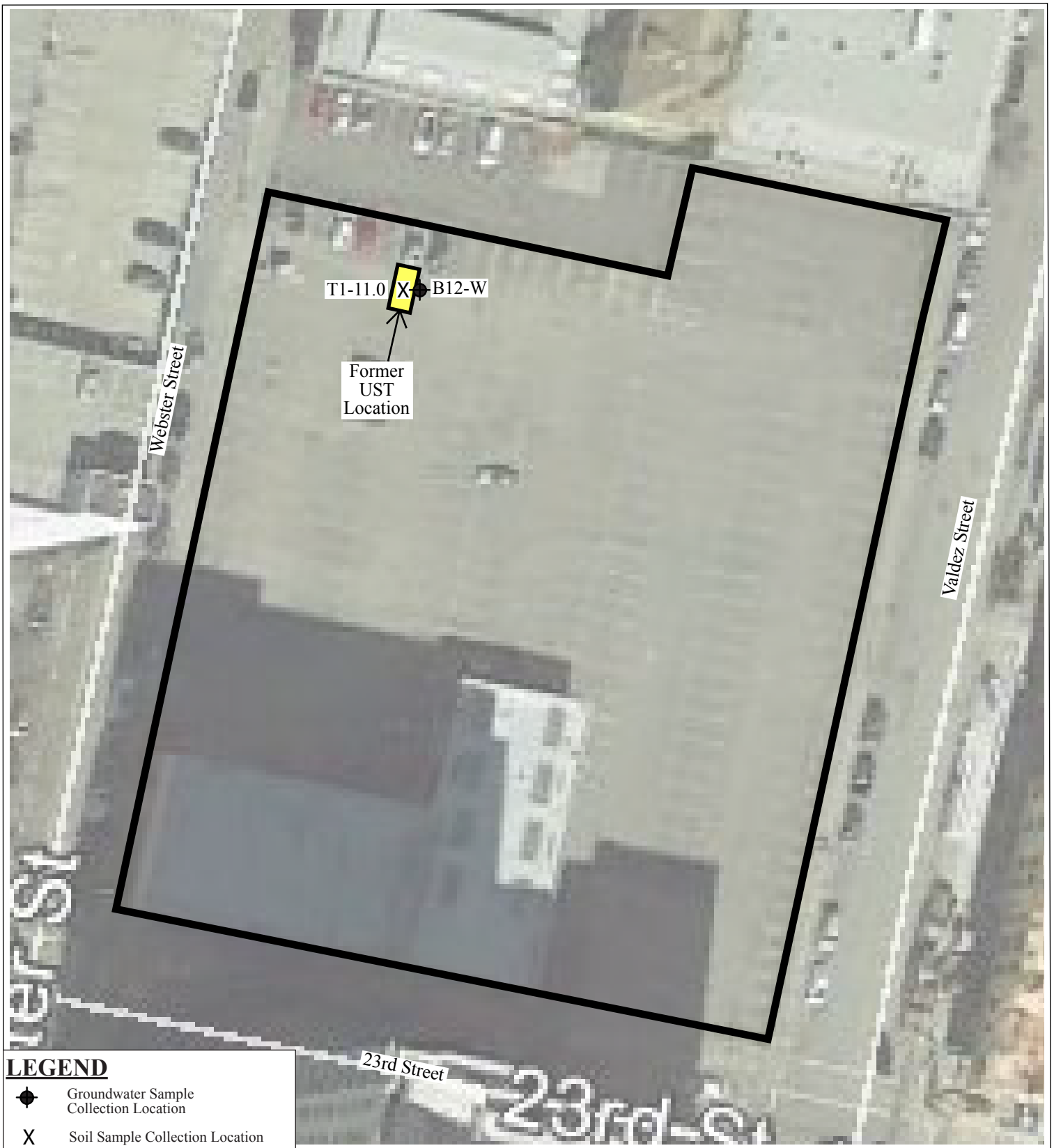


Figure 3
 Site Aerial Photograph Showing Sample Collection Locations
 2330 Webster Street
 Oakland, California

Basemap from:
 Google Earth, March 2017

Terracon
 55 Santa Clara Avenue, Suite 240
 Oakland, California 94610

0 25 50

 Approximate Scale in Feet



APPENDIX A

UST Photograph



APPENDIX B

Weighmaster Certificate for Concrete Disposal

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.



8300 BALDWIN STREET, OAKLAND, CA 94621
Phone: (510) 638-7188 - Fax: (510) 638-7189
Email: Sales@ArgentMaterials.com

154574

8/29/2017 2:58:37PM

ARGENT MATERIALS

Customer 1492 Granite Excavation & Demolition, Inc.
Order : 001 2330 WEBSTER ST.
Job # :
P.O.# :
Product : 1104 SIZED CONCRETE END DUMP 1.00 Load
Carrier :
Vehicle : FLYNNTRI LIC: 9D30342CA

	<u>Pounds</u>	<u>Tons</u>
Gross		
Tare		
Net		

Ordered	0.00	
Received	39.00	
Remaining	-39.00	
Today:	3.00	Loads: 3

Received: _____

COPY 2 CUSTOMER

Weighmaster: Teri Kuester

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.



ARGENT MATERIALS

Customer 1492 Granite Excavation & Demolition, Inc.
Order : 001 2330 WEBSTER ST.
Job # :
P.O.# :
Product : 1104 SIZED CONCRETE END DUMP 1.00 Load
Carrier :
Vehicle : FLYNNTRI LIC: 9D30342CA

154574

8/29/2017 2:58:37PM

	<u>Pounds</u>	<u>Tons</u>
Gross		
Tare		
Net		

Ordered	0.00	
Received	39.00	
Remaining	-39.00	
Today:	3.00	Loads: 3

Received: _____

COPY 3 TRUCK

Weighmaster: Teri Kuester

APPENDIX C

Certificate of Triple Rinse for Former UST

CERTIFICATE OF TRIPLE RINSE

Granite Excavation and Demolition Inc
160 S Linden Ave Ste 100
South San Francisco, CA 94080

Granite Excavation and Demolition, Inc. hereby certifies to (Generator)

Maple NorCal Construction GP, L.L.C

That:

1. The Tanks:
1 x 500 gallon

Located at 2330 Webster Street Oakland

2. Have been triple rinsed with an environmentally safe detergent, applied by a high-pressure washer.
3. The forgoing method of triple rinse is suitable for the materials involved and fully complies with all applicable regulatory and permit requirements.

Date: 8/29/17.

Lead Tech:

 ERWIN O'TOOLE.

Notes: - tank was full of concrete.
broke concrete and scrubbed tank with appropriate
sent ^{regs} and detergent.
tank to Also as scrap.

APPENDIX D

Alco Iron and Metal Receiving Ticket for Former UST



2140 DAVIS ST
 SAN LEANDRO, CA 94577
 PHONE 510-562-1107
 FAX 510-562-1354

WWW.ALCOMETALS.COM - INFO@ALCOMETALS.COM

**Scale Ticket
 Receiving Ticket**

Receiving Ticket #: **40609**

Scale: SL-Ferrous Truck Sca
 Started At: 9/19/2017 11:32:56AM
 by Weighmaster: Palquinn Kaneyama
 Completed At: 9/19/2017 11:59:18AM
 by Weighmaster: Palquinn Kaneyama

Received From:

GRANITE EXCAVATION & DEMOLITION
 160 S LINDEN AVE #100
 SOUTH SAN FRANCISCO, CA 94080

Driver: CUSTOMER
 Vehicle Plate: 9D30342

Legend - "S" = Scale / Scaled Weight "M" = Manually Entered Weight "A" = Automatic Tare Weight

WEIGHMASTER CERTIFICATE
 THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Scale Legend
 1 SL-Ferrous Truck Sca

Item Name	Packaging	Gross (lb)	Tare (lb)	Adj (lb)	Net (lb)
HMS No.1 - Unprepared		42,020.0 S ¹	33,520.0 S ¹	0.0	8,500.0
		42,020.0	33,520.0		8,500.0

Full Truck Weights (lbs)

Gross: 42,020.0 S¹
 Tare: 33,520.0 S¹
 Net: 8,500.0
 Items: 8,500.0 Boxes on Truck
 Diff: 0

00

STEEL RECEIVED
 ON ACCOUNT
 2017

Alco Iron & Metal - San Leandro
 Weigh-in

Alco Iron & Metal - San Leandro
 Complete

Deputy _____
 pkaneyama

Deputy _____
 pkaneyama

APPENDIX E

Laboratory Reports and Chain of Custody Documentation

- **McC Campbell Work Order # 1708E74 - Soil Samples Sample 1, Sample 2, and Sample 3 Results for Soil Disposal Characterization**
- **McC Campbell Work Order # 1709668 - Soil Sample T1-11.0 Results for Former UST Soil Characterization**
- **McC Campbell Work Order # 1709669 - Groundwater Sample B12-W Results for Former UST Groundwater Characterization**



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1708E74

Report Created for: Granite Excavation

160 S.Linden Avenue Suite 100
South San Francisco, CA 94080

Project Contact: Erwin O Toole

Project P.O.:

Project Name: 1313; 2330 Webster Street

Project Received: 08/30/2017

Analytical Report reviewed & approved for release on 09/05/2017 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: Granite Excavation
Project: 1313; 2330 Webster Street
WorkOrder: 1708E74

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
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
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: Granite Excavation
Project: 1313; 2330 Webster Street
WorkOrder: 1708E74

Analytical Qualifiers

a3 Sample diluted due to high organic content.
d7 Strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
e2 Diesel range compounds are significant; no recognizable pattern
e7 Oil range compounds are significant
e8 Pattern resembles kerosene/kerosene range/jet fuel range
k10 CARB 435 Exception 1 - No asbestos detected

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 is out of acceptance criteria.



Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/30/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW3550B
Analytical Method: SW8081A/8082
Unit: mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 1	1708E74-001A	Soil	08/30/2017 15:30	GC22	144703

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.0010	1	08/31/2017 21:14
a-BHC	ND	0.0010	1	08/31/2017 21:14
b-BHC	ND	0.0010	1	08/31/2017 21:14
d-BHC	ND	0.0010	1	08/31/2017 21:14
g-BHC	ND	0.0010	1	08/31/2017 21:14
Chlordane (Technical)	ND	0.025	1	08/31/2017 21:14
a-Chlordane	ND	0.0010	1	08/31/2017 21:14
g-Chlordane	ND	0.0010	1	08/31/2017 21:14
p,p-DDD	ND	0.0010	1	08/31/2017 21:14
p,p-DDE	ND	0.0010	1	08/31/2017 21:14
p,p-DDT	ND	0.0010	1	08/31/2017 21:14
Dieldrin	ND	0.0010	1	08/31/2017 21:14
Endosulfan I	ND	0.0010	1	08/31/2017 21:14
Endosulfan II	ND	0.0010	1	08/31/2017 21:14
Endosulfan sulfate	ND	0.0010	1	08/31/2017 21:14
Endrin	ND	0.0010	1	08/31/2017 21:14
Endrin aldehyde	ND	0.0010	1	08/31/2017 21:14
Endrin ketone	ND	0.0010	1	08/31/2017 21:14
Heptachlor	ND	0.0010	1	08/31/2017 21:14
Heptachlor epoxide	ND	0.0010	1	08/31/2017 21:14
Hexachlorobenzene	ND	0.010	1	08/31/2017 21:14
Hexachlorocyclopentadiene	ND	0.020	1	08/31/2017 21:14
Methoxychlor	ND	0.0010	1	08/31/2017 21:14
Toxaphene	ND	0.050	1	08/31/2017 21:14
Aroclor1016	ND	0.050	1	08/31/2017 21:14
Aroclor1221	ND	0.050	1	08/31/2017 21:14
Aroclor1232	ND	0.050	1	08/31/2017 21:14
Aroclor1242	ND	0.050	1	08/31/2017 21:14
Aroclor1248	ND	0.050	1	08/31/2017 21:14
Aroclor1254	ND	0.050	1	08/31/2017 21:14
Aroclor1260	ND	0.050	1	08/31/2017 21:14
PCBs, total	ND	0.050	1	08/31/2017 21:14

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	107	70-130	08/31/2017 21:14

Analyst(s): CK

(Cont.)



Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/30/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW3550B
Analytical Method: SW8081A/8082
Unit: mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 2	1708E74-002A	Soil	08/30/2017 15:30	GC22	144703

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.0010	1	08/31/2017 22:25
a-BHC	ND	0.0010	1	08/31/2017 22:25
b-BHC	ND	0.0010	1	08/31/2017 22:25
d-BHC	ND	0.0010	1	08/31/2017 22:25
g-BHC	ND	0.0010	1	08/31/2017 22:25
Chlordane (Technical)	ND	0.025	1	08/31/2017 22:25
a-Chlordane	ND	0.0010	1	08/31/2017 22:25
g-Chlordane	ND	0.0010	1	08/31/2017 22:25
p,p-DDD	ND	0.0010	1	08/31/2017 22:25
p,p-DDE	ND	0.0010	1	08/31/2017 22:25
p,p-DDT	ND	0.0010	1	08/31/2017 22:25
Dieldrin	ND	0.0010	1	08/31/2017 22:25
Endosulfan I	ND	0.0010	1	08/31/2017 22:25
Endosulfan II	ND	0.0010	1	08/31/2017 22:25
Endosulfan sulfate	ND	0.0010	1	08/31/2017 22:25
Endrin	ND	0.0010	1	08/31/2017 22:25
Endrin aldehyde	ND	0.0010	1	08/31/2017 22:25
Endrin ketone	ND	0.0010	1	08/31/2017 22:25
Heptachlor	ND	0.0010	1	08/31/2017 22:25
Heptachlor epoxide	ND	0.0010	1	08/31/2017 22:25
Hexachlorobenzene	ND	0.010	1	08/31/2017 22:25
Hexachlorocyclopentadiene	ND	0.020	1	08/31/2017 22:25
Methoxychlor	ND	0.0010	1	08/31/2017 22:25
Toxaphene	ND	0.050	1	08/31/2017 22:25
Aroclor1016	ND	0.050	1	08/31/2017 22:25
Aroclor1221	ND	0.050	1	08/31/2017 22:25
Aroclor1232	ND	0.050	1	08/31/2017 22:25
Aroclor1242	ND	0.050	1	08/31/2017 22:25
Aroclor1248	ND	0.050	1	08/31/2017 22:25
Aroclor1254	ND	0.050	1	08/31/2017 22:25
Aroclor1260	ND	0.050	1	08/31/2017 22:25
PCBs, total	ND	0.050	1	08/31/2017 22:25

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	104	70-130	08/31/2017 22:25

Analyst(s): CK

(Cont.)



Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/30/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW3550B
Analytical Method: SW8081A/8082
Unit: mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 3	1708E74-003A	Soil	08/30/2017 15:30	GC22	144703

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.0050	5	08/31/2017 21:51
a-BHC	ND	0.0050	5	08/31/2017 21:51
b-BHC	ND	0.0050	5	08/31/2017 21:51
d-BHC	ND	0.0050	5	08/31/2017 21:51
g-BHC	ND	0.0050	5	08/31/2017 21:51
Chlordane (Technical)	ND	0.12	5	08/31/2017 21:51
a-Chlordane	ND	0.0050	5	08/31/2017 21:51
g-Chlordane	ND	0.0050	5	08/31/2017 21:51
p,p-DDD	ND	0.0050	5	08/31/2017 21:51
p,p-DDE	ND	0.0050	5	08/31/2017 21:51
p,p-DDT	ND	0.0050	5	08/31/2017 21:51
Dieldrin	ND	0.0050	5	08/31/2017 21:51
Endosulfan I	ND	0.0050	5	08/31/2017 21:51
Endosulfan II	ND	0.0050	5	08/31/2017 21:51
Endosulfan sulfate	ND	0.0050	5	08/31/2017 21:51
Endrin	ND	0.0050	5	08/31/2017 21:51
Endrin aldehyde	ND	0.0050	5	08/31/2017 21:51
Endrin ketone	ND	0.0050	5	08/31/2017 21:51
Heptachlor	ND	0.0050	5	08/31/2017 21:51
Heptachlor epoxide	ND	0.0050	5	08/31/2017 21:51
Hexachlorobenzene	ND	0.050	5	08/31/2017 21:51
Hexachlorocyclopentadiene	ND	0.10	5	08/31/2017 21:51
Methoxychlor	ND	0.0050	5	08/31/2017 21:51
Toxaphene	ND	0.25	5	08/31/2017 21:51
Aroclor1016	ND	0.25	5	08/31/2017 21:51
Aroclor1221	ND	0.25	5	08/31/2017 21:51
Aroclor1232	ND	0.25	5	08/31/2017 21:51
Aroclor1242	ND	0.25	5	08/31/2017 21:51
Aroclor1248	ND	0.25	5	08/31/2017 21:51
Aroclor1254	ND	0.25	5	08/31/2017 21:51
Aroclor1260	ND	0.25	5	08/31/2017 21:51
PCBs, total	ND	0.25	5	08/31/2017 21:51

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	103	70-130	08/31/2017 21:51

Analyst(s): CK

Analytical Comments: a3



Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/30/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 1	1708E74-001A	Soil	08/30/2017 15:30	GC10	144697

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	1.0	10	09/01/2017 11:01
tert-Amyl methyl ether (TAME)	ND	0.050	10	09/01/2017 11:01
Benzene	ND	0.050	10	09/01/2017 11:01
Bromobenzene	ND	0.050	10	09/01/2017 11:01
Bromochloromethane	ND	0.050	10	09/01/2017 11:01
Bromodichloromethane	ND	0.050	10	09/01/2017 11:01
Bromoform	ND	0.050	10	09/01/2017 11:01
Bromomethane	ND	0.050	10	09/01/2017 11:01
2-Butanone (MEK)	ND	0.20	10	09/01/2017 11:01
t-Butyl alcohol (TBA)	ND	0.50	10	09/01/2017 11:01
n-Butyl benzene	ND	0.050	10	09/01/2017 11:01
sec-Butyl benzene	ND	0.050	10	09/01/2017 11:01
tert-Butyl benzene	ND	0.050	10	09/01/2017 11:01
Carbon Disulfide	ND	0.050	10	09/01/2017 11:01
Carbon Tetrachloride	ND	0.050	10	09/01/2017 11:01
Chlorobenzene	ND	0.050	10	09/01/2017 11:01
Chloroethane	ND	0.050	10	09/01/2017 11:01
Chloroform	ND	0.050	10	09/01/2017 11:01
Chloromethane	ND	0.050	10	09/01/2017 11:01
2-Chlorotoluene	ND	0.050	10	09/01/2017 11:01
4-Chlorotoluene	ND	0.050	10	09/01/2017 11:01
Dibromochloromethane	ND	0.050	10	09/01/2017 11:01
1,2-Dibromo-3-chloropropane	ND	0.040	10	09/01/2017 11:01
1,2-Dibromoethane (EDB)	ND	0.040	10	09/01/2017 11:01
Dibromomethane	ND	0.050	10	09/01/2017 11:01
1,2-Dichlorobenzene	ND	0.050	10	09/01/2017 11:01
1,3-Dichlorobenzene	ND	0.050	10	09/01/2017 11:01
1,4-Dichlorobenzene	ND	0.050	10	09/01/2017 11:01
Dichlorodifluoromethane	ND	0.050	10	09/01/2017 11:01
1,1-Dichloroethane	ND	0.050	10	09/01/2017 11:01
1,2-Dichloroethane (1,2-DCA)	ND	0.040	10	09/01/2017 11:01
1,1-Dichloroethene	ND	0.050	10	09/01/2017 11:01
cis-1,2-Dichloroethene	ND	0.050	10	09/01/2017 11:01
trans-1,2-Dichloroethene	ND	0.050	10	09/01/2017 11:01
1,2-Dichloropropane	ND	0.050	10	09/01/2017 11:01
1,3-Dichloropropane	ND	0.050	10	09/01/2017 11:01
2,2-Dichloropropane	ND	0.050	10	09/01/2017 11:01

(Cont.)



Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/30/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 1	1708E74-001A	Soil	08/30/2017 15:30	GC10	144697

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.050	10	09/01/2017 11:01
cis-1,3-Dichloropropene	ND	0.050	10	09/01/2017 11:01
trans-1,3-Dichloropropene	ND	0.050	10	09/01/2017 11:01
Diisopropyl ether (DIPE)	ND	0.050	10	09/01/2017 11:01
Ethanol	ND	5.0	10	09/01/2017 11:01
Ethylbenzene	ND	0.050	10	09/01/2017 11:01
Ethyl tert-butyl ether (ETBE)	ND	0.050	10	09/01/2017 11:01
Freon 113	ND	0.050	10	09/01/2017 11:01
Hexachlorobutadiene	ND	0.050	10	09/01/2017 11:01
Hexachloroethane	ND	0.050	10	09/01/2017 11:01
2-Hexanone	ND	0.050	10	09/01/2017 11:01
Isopropylbenzene	ND	0.050	10	09/01/2017 11:01
4-Isopropyl toluene	ND	0.050	10	09/01/2017 11:01
Methyl-t-butyl ether (MTBE)	ND	0.050	10	09/01/2017 11:01
Methylene chloride	ND	0.050	10	09/01/2017 11:01
4-Methyl-2-pentanone (MIBK)	ND	0.050	10	09/01/2017 11:01
Naphthalene	0.18	0.050	10	09/01/2017 11:01
n-Propyl benzene	ND	0.050	10	09/01/2017 11:01
Styrene	ND	0.050	10	09/01/2017 11:01
1,1,1,2-Tetrachloroethane	ND	0.050	10	09/01/2017 11:01
1,1,2,2-Tetrachloroethane	ND	0.050	10	09/01/2017 11:01
Tetrachloroethene	ND	0.050	10	09/01/2017 11:01
Toluene	ND	0.050	10	09/01/2017 11:01
1,2,3-Trichlorobenzene	ND	0.050	10	09/01/2017 11:01
1,2,4-Trichlorobenzene	ND	0.050	10	09/01/2017 11:01
1,1,1-Trichloroethane	ND	0.050	10	09/01/2017 11:01
1,1,2-Trichloroethane	ND	0.050	10	09/01/2017 11:01
Trichloroethene	ND	0.050	10	09/01/2017 11:01
Trichlorofluoromethane	ND	0.050	10	09/01/2017 11:01
1,2,3-Trichloropropane	ND	0.050	10	09/01/2017 11:01
1,2,4-Trimethylbenzene	ND	0.050	10	09/01/2017 11:01
1,3,5-Trimethylbenzene	ND	0.050	10	09/01/2017 11:01
Vinyl Chloride	ND	0.050	10	09/01/2017 11:01
Xylenes, Total	ND	0.050	10	09/01/2017 11:01

(Cont.)



Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/30/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 1	1708E74-001A	Soil	08/30/2017 15:30	GC10	144697

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	101	82-136		09/01/2017 11:01
Toluene-d8	103	92-139		09/01/2017 11:01
4-BFB	92	82-135		09/01/2017 11:01
Benzene-d6	94	55-122		09/01/2017 11:01
Ethylbenzene-d10	82	58-141		09/01/2017 11:01
1,2-DCB-d4	91	51-107		09/01/2017 11:01

Analyst(s): KF

Analytical Comments: a3



Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/30/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 2	1708E74-002A	Soil	08/30/2017 15:30	GC38	144697
<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>	
Acetone	ND	0.10	1	09/01/2017 17:35	
tert-Amyl methyl ether (TAME)	ND	0.0050	1	09/01/2017 17:35	
Benzene	ND	0.0050	1	09/01/2017 17:35	
Bromobenzene	ND	0.0050	1	09/01/2017 17:35	
Bromochloromethane	ND	0.0050	1	09/01/2017 17:35	
Bromodichloromethane	ND	0.0050	1	09/01/2017 17:35	
Bromoform	ND	0.0050	1	09/01/2017 17:35	
Bromomethane	ND	0.0050	1	09/01/2017 17:35	
2-Butanone (MEK)	ND	0.020	1	09/01/2017 17:35	
t-Butyl alcohol (TBA)	0.43	0.050	1	09/01/2017 17:35	
n-Butyl benzene	0.0094	0.0050	1	09/01/2017 17:35	
sec-Butyl benzene	ND	0.0050	1	09/01/2017 17:35	
tert-Butyl benzene	ND	0.0050	1	09/01/2017 17:35	
Carbon Disulfide	ND	0.0050	1	09/01/2017 17:35	
Carbon Tetrachloride	ND	0.0050	1	09/01/2017 17:35	
Chlorobenzene	ND	0.0050	1	09/01/2017 17:35	
Chloroethane	ND	0.0050	1	09/01/2017 17:35	
Chloroform	ND	0.0050	1	09/01/2017 17:35	
Chloromethane	ND	0.0050	1	09/01/2017 17:35	
2-Chlorotoluene	ND	0.0050	1	09/01/2017 17:35	
4-Chlorotoluene	ND	0.0050	1	09/01/2017 17:35	
Dibromochloromethane	ND	0.0050	1	09/01/2017 17:35	
1,2-Dibromo-3-chloropropane	ND	0.0040	1	09/01/2017 17:35	
1,2-Dibromoethane (EDB)	ND	0.0040	1	09/01/2017 17:35	
Dibromomethane	ND	0.0050	1	09/01/2017 17:35	
1,2-Dichlorobenzene	ND	0.0050	1	09/01/2017 17:35	
1,3-Dichlorobenzene	ND	0.0050	1	09/01/2017 17:35	
1,4-Dichlorobenzene	ND	0.0050	1	09/01/2017 17:35	
Dichlorodifluoromethane	ND	0.0050	1	09/01/2017 17:35	
1,1-Dichloroethane	ND	0.0050	1	09/01/2017 17:35	
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	09/01/2017 17:35	
1,1-Dichloroethene	ND	0.0050	1	09/01/2017 17:35	
cis-1,2-Dichloroethene	ND	0.0050	1	09/01/2017 17:35	
trans-1,2-Dichloroethene	ND	0.0050	1	09/01/2017 17:35	
1,2-Dichloropropane	ND	0.0050	1	09/01/2017 17:35	
1,3-Dichloropropane	ND	0.0050	1	09/01/2017 17:35	
2,2-Dichloropropane	ND	0.0050	1	09/01/2017 17:35	

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Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/30/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 2	1708E74-002A	Soil	08/30/2017 15:30	GC38	144697

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	09/01/2017 17:35
cis-1,3-Dichloropropene	ND	0.0050	1	09/01/2017 17:35
trans-1,3-Dichloropropene	ND	0.0050	1	09/01/2017 17:35
Diisopropyl ether (DIPE)	ND	0.0050	1	09/01/2017 17:35
Ethanol	ND	0.50	1	09/01/2017 17:35
Ethylbenzene	ND	0.0050	1	09/01/2017 17:35
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	09/01/2017 17:35
Freon 113	ND	0.0050	1	09/01/2017 17:35
Hexachlorobutadiene	ND	0.0050	1	09/01/2017 17:35
Hexachloroethane	ND	0.0050	1	09/01/2017 17:35
2-Hexanone	ND	0.0050	1	09/01/2017 17:35
Isopropylbenzene	ND	0.0050	1	09/01/2017 17:35
4-Isopropyl toluene	ND	0.0050	1	09/01/2017 17:35
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	09/01/2017 17:35
Methylene chloride	ND	0.0050	1	09/01/2017 17:35
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	09/01/2017 17:35
Naphthalene	0.033	0.0050	1	09/01/2017 17:35
n-Propyl benzene	0.0052	0.0050	1	09/01/2017 17:35
Styrene	ND	0.0050	1	09/01/2017 17:35
1,1,1,2-Tetrachloroethane	ND	0.0050	1	09/01/2017 17:35
1,1,2,2-Tetrachloroethane	ND	0.0050	1	09/01/2017 17:35
Tetrachloroethene	ND	0.0050	1	09/01/2017 17:35
Toluene	ND	0.0050	1	09/01/2017 17:35
1,2,3-Trichlorobenzene	ND	0.0050	1	09/01/2017 17:35
1,2,4-Trichlorobenzene	ND	0.0050	1	09/01/2017 17:35
1,1,1-Trichloroethane	ND	0.0050	1	09/01/2017 17:35
1,1,2-Trichloroethane	ND	0.0050	1	09/01/2017 17:35
Trichloroethene	ND	0.0050	1	09/01/2017 17:35
Trichlorofluoromethane	ND	0.0050	1	09/01/2017 17:35
1,2,3-Trichloropropane	ND	0.0050	1	09/01/2017 17:35
1,2,4-Trimethylbenzene	ND	0.0050	1	09/01/2017 17:35
1,3,5-Trimethylbenzene	ND	0.0050	1	09/01/2017 17:35
Vinyl Chloride	ND	0.0050	1	09/01/2017 17:35
Xylenes, Total	ND	0.0050	1	09/01/2017 17:35

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Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/30/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 2	1708E74-002A	Soil	08/30/2017 15:30	GC38	144697

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	
Dibromofluoromethane	114	82-136		09/01/2017 17:35
Toluene-d8	118	92-139		09/01/2017 17:35
4-BFB	116	82-135		09/01/2017 17:35
Benzene-d6	106	55-122		09/01/2017 17:35
Ethylbenzene-d10	112	58-141		09/01/2017 17:35
1,2-DCB-d4	87	51-107		09/01/2017 17:35

Analyst(s): JEM



Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/30/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 3	1708E74-003A	Soil	08/30/2017 15:30	GC10	144697
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Acetone	ND		1.0	10	09/01/2017 11:43
tert-Amyl methyl ether (TAME)	ND		0.050	10	09/01/2017 11:43
Benzene	ND		0.050	10	09/01/2017 11:43
Bromobenzene	ND		0.050	10	09/01/2017 11:43
Bromochloromethane	ND		0.050	10	09/01/2017 11:43
Bromodichloromethane	ND		0.050	10	09/01/2017 11:43
Bromoform	ND		0.050	10	09/01/2017 11:43
Bromomethane	ND		0.050	10	09/01/2017 11:43
2-Butanone (MEK)	ND		0.20	10	09/01/2017 11:43
t-Butyl alcohol (TBA)	ND		0.50	10	09/01/2017 11:43
n-Butyl benzene	ND		0.050	10	09/01/2017 11:43
sec-Butyl benzene	ND		0.050	10	09/01/2017 11:43
tert-Butyl benzene	ND		0.050	10	09/01/2017 11:43
Carbon Disulfide	ND		0.050	10	09/01/2017 11:43
Carbon Tetrachloride	ND		0.050	10	09/01/2017 11:43
Chlorobenzene	ND		0.050	10	09/01/2017 11:43
Chloroethane	ND		0.050	10	09/01/2017 11:43
Chloroform	ND		0.050	10	09/01/2017 11:43
Chloromethane	ND		0.050	10	09/01/2017 11:43
2-Chlorotoluene	ND		0.050	10	09/01/2017 11:43
4-Chlorotoluene	ND		0.050	10	09/01/2017 11:43
Dibromochloromethane	ND		0.050	10	09/01/2017 11:43
1,2-Dibromo-3-chloropropane	ND		0.040	10	09/01/2017 11:43
1,2-Dibromoethane (EDB)	ND		0.040	10	09/01/2017 11:43
Dibromomethane	ND		0.050	10	09/01/2017 11:43
1,2-Dichlorobenzene	ND		0.050	10	09/01/2017 11:43
1,3-Dichlorobenzene	ND		0.050	10	09/01/2017 11:43
1,4-Dichlorobenzene	ND		0.050	10	09/01/2017 11:43
Dichlorodifluoromethane	ND		0.050	10	09/01/2017 11:43
1,1-Dichloroethane	ND		0.050	10	09/01/2017 11:43
1,2-Dichloroethane (1,2-DCA)	ND		0.040	10	09/01/2017 11:43
1,1-Dichloroethene	ND		0.050	10	09/01/2017 11:43
cis-1,2-Dichloroethene	ND		0.050	10	09/01/2017 11:43
trans-1,2-Dichloroethene	ND		0.050	10	09/01/2017 11:43
1,2-Dichloropropane	ND		0.050	10	09/01/2017 11:43
1,3-Dichloropropane	ND		0.050	10	09/01/2017 11:43
2,2-Dichloropropane	ND		0.050	10	09/01/2017 11:43

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Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/30/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 3	1708E74-003A	Soil	08/30/2017 15:30	GC10	144697

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.050	10	09/01/2017 11:43
cis-1,3-Dichloropropene	ND	0.050	10	09/01/2017 11:43
trans-1,3-Dichloropropene	ND	0.050	10	09/01/2017 11:43
Diisopropyl ether (DIPE)	ND	0.050	10	09/01/2017 11:43
Ethanol	ND	5.0	10	09/01/2017 11:43
Ethylbenzene	ND	0.050	10	09/01/2017 11:43
Ethyl tert-butyl ether (ETBE)	ND	0.050	10	09/01/2017 11:43
Freon 113	ND	0.050	10	09/01/2017 11:43
Hexachlorobutadiene	ND	0.050	10	09/01/2017 11:43
Hexachloroethane	ND	0.050	10	09/01/2017 11:43
2-Hexanone	ND	0.050	10	09/01/2017 11:43
Isopropylbenzene	ND	0.050	10	09/01/2017 11:43
4-Isopropyl toluene	ND	0.050	10	09/01/2017 11:43
Methyl-t-butyl ether (MTBE)	ND	0.050	10	09/01/2017 11:43
Methylene chloride	ND	0.050	10	09/01/2017 11:43
4-Methyl-2-pentanone (MIBK)	ND	0.050	10	09/01/2017 11:43
Naphthalene	0.22	0.050	10	09/01/2017 11:43
n-Propyl benzene	ND	0.050	10	09/01/2017 11:43
Styrene	ND	0.050	10	09/01/2017 11:43
1,1,1,2-Tetrachloroethane	ND	0.050	10	09/01/2017 11:43
1,1,2,2-Tetrachloroethane	ND	0.050	10	09/01/2017 11:43
Tetrachloroethene	ND	0.050	10	09/01/2017 11:43
Toluene	ND	0.050	10	09/01/2017 11:43
1,2,3-Trichlorobenzene	ND	0.050	10	09/01/2017 11:43
1,2,4-Trichlorobenzene	ND	0.050	10	09/01/2017 11:43
1,1,1-Trichloroethane	ND	0.050	10	09/01/2017 11:43
1,1,2-Trichloroethane	ND	0.050	10	09/01/2017 11:43
Trichloroethene	ND	0.050	10	09/01/2017 11:43
Trichlorofluoromethane	ND	0.050	10	09/01/2017 11:43
1,2,3-Trichloropropane	ND	0.050	10	09/01/2017 11:43
1,2,4-Trimethylbenzene	ND	0.050	10	09/01/2017 11:43
1,3,5-Trimethylbenzene	ND	0.050	10	09/01/2017 11:43
Vinyl Chloride	ND	0.050	10	09/01/2017 11:43
Xylenes, Total	ND	0.050	10	09/01/2017 11:43

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Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/30/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 3	1708E74-003A	Soil	08/30/2017 15:30	GC10	144697

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	100	82-136		09/01/2017 11:43
Toluene-d8	102	92-139		09/01/2017 11:43
4-BFB	97	82-135		09/01/2017 11:43
Benzene-d6	97	55-122		09/01/2017 11:43
Ethylbenzene-d10	88	58-141		09/01/2017 11:43
1,2-DCB-d4	95	51-107		09/01/2017 11:43

Analyst(s): KF

Analytical Comments: a3



Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/31/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 1	1708E74-001A	Soil	08/30/2017 15:30	GC17	144727

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.25	1	08/31/2017 18:33
Acenaphthylene	ND	0.25	1	08/31/2017 18:33
Acetochlor	ND	0.25	1	08/31/2017 18:33
Anthracene	ND	0.25	1	08/31/2017 18:33
Benzidine	ND	1.3	1	08/31/2017 18:33
Benzo (a) anthracene	ND	0.25	1	08/31/2017 18:33
Benzo (a) pyrene	ND	0.25	1	08/31/2017 18:33
Benzo (b) fluoranthene	ND	0.25	1	08/31/2017 18:33
Benzo (g,h,i) perylene	ND	0.25	1	08/31/2017 18:33
Benzo (k) fluoranthene	ND	0.25	1	08/31/2017 18:33
Benzyl Alcohol	ND	1.3	1	08/31/2017 18:33
1,1-Biphenyl	ND	0.25	1	08/31/2017 18:33
Bis (2-chloroethoxy) Methane	ND	0.25	1	08/31/2017 18:33
Bis (2-chloroethyl) Ether	ND	0.25	1	08/31/2017 18:33
Bis (2-chloroisopropyl) Ether	ND	0.25	1	08/31/2017 18:33
Bis (2-ethylhexyl) Adipate	ND	0.25	1	08/31/2017 18:33
Bis (2-ethylhexyl) Phthalate	ND	0.25	1	08/31/2017 18:33
4-Bromophenyl Phenyl Ether	ND	0.25	1	08/31/2017 18:33
Butylbenzyl Phthalate	ND	0.25	1	08/31/2017 18:33
4-Chloroaniline	ND	0.50	1	08/31/2017 18:33
4-Chloro-3-methylphenol	ND	0.25	1	08/31/2017 18:33
2-Chloronaphthalene	ND	0.25	1	08/31/2017 18:33
2-Chlorophenol	ND	0.25	1	08/31/2017 18:33
4-Chlorophenyl Phenyl Ether	ND	0.25	1	08/31/2017 18:33
Chrysene	ND	0.25	1	08/31/2017 18:33
Dibenzo (a,h) anthracene	ND	0.25	1	08/31/2017 18:33
Dibenzofuran	ND	0.25	1	08/31/2017 18:33
Di-n-butyl Phthalate	ND	0.25	1	08/31/2017 18:33
1,2-Dichlorobenzene	ND	0.25	1	08/31/2017 18:33
1,3-Dichlorobenzene	ND	0.25	1	08/31/2017 18:33
1,4-Dichlorobenzene	ND	0.25	1	08/31/2017 18:33
3,3-Dichlorobenzidine	ND	0.50	1	08/31/2017 18:33
2,4-Dichlorophenol	ND	0.25	1	08/31/2017 18:33
Diethyl Phthalate	ND	0.25	1	08/31/2017 18:33
2,4-Dimethylphenol	ND	0.25	1	08/31/2017 18:33
Dimethyl Phthalate	ND	0.25	1	08/31/2017 18:33
4,6-Dinitro-2-methylphenol	ND	1.3	1	08/31/2017 18:33

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Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/31/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 1	1708E74-001A	Soil	08/30/2017 15:30	GC17	144727

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	6.3	1	08/31/2017 18:33
2,4-Dinitrotoluene	ND	0.25	1	08/31/2017 18:33
2,6-Dinitrotoluene	ND	0.25	1	08/31/2017 18:33
Di-n-octyl Phthalate	ND	0.50	1	08/31/2017 18:33
1,2-Diphenylhydrazine	ND	0.25	1	08/31/2017 18:33
Fluoranthene	ND	0.25	1	08/31/2017 18:33
Fluorene	ND	0.25	1	08/31/2017 18:33
Hexachlorobenzene	ND	0.25	1	08/31/2017 18:33
Hexachlorobutadiene	ND	0.25	1	08/31/2017 18:33
Hexachlorocyclopentadiene	ND	1.3	1	08/31/2017 18:33
Hexachloroethane	ND	0.25	1	08/31/2017 18:33
Indeno (1,2,3-cd) pyrene	ND	0.25	1	08/31/2017 18:33
Isophorone	ND	0.25	1	08/31/2017 18:33
2-Methylnaphthalene	0.38	0.25	1	08/31/2017 18:33
2-Methylphenol (o-Cresol)	ND	0.25	1	08/31/2017 18:33
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	08/31/2017 18:33
Naphthalene	ND	0.25	1	08/31/2017 18:33
2-Nitroaniline	ND	1.3	1	08/31/2017 18:33
3-Nitroaniline	ND	1.3	1	08/31/2017 18:33
4-Nitroaniline	ND	1.3	1	08/31/2017 18:33
Nitrobenzene	ND	0.25	1	08/31/2017 18:33
2-Nitrophenol	ND	1.3	1	08/31/2017 18:33
4-Nitrophenol	ND	1.3	1	08/31/2017 18:33
N-Nitrosodiphenylamine	ND	0.25	1	08/31/2017 18:33
N-Nitrosodi-n-propylamine	ND	0.25	1	08/31/2017 18:33
Pentachlorophenol	ND	1.3	1	08/31/2017 18:33
Phenanthrene	ND	0.25	1	08/31/2017 18:33
Phenol	ND	0.25	1	08/31/2017 18:33
Pyrene	ND	0.25	1	08/31/2017 18:33
Pyridine	ND	0.25	1	08/31/2017 18:33
1,2,4-Trichlorobenzene	ND	0.25	1	08/31/2017 18:33
2,4,5-Trichlorophenol	ND	0.25	1	08/31/2017 18:33
2,4,6-Trichlorophenol	ND	0.25	1	08/31/2017 18:33

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Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/31/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 1	1708E74-001A	Soil	08/30/2017 15:30	GC17	144727

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorophenol	81	30-130		08/31/2017 18:33
Phenol-d5	74	30-130		08/31/2017 18:33
Nitrobenzene-d5	81	30-130		08/31/2017 18:33
2-Fluorobiphenyl	70	30-130		08/31/2017 18:33
2,4,6-Tribromophenol	48	16-130		08/31/2017 18:33
4-Terphenyl-d14	84	30-130		08/31/2017 18:33

Analyst(s): REB



Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/31/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 2	1708E74-002A	Soil	08/30/2017 15:30	GC17	144727

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.25	1	08/31/2017 19:02
Acenaphthylene	ND	0.25	1	08/31/2017 19:02
Acetochlor	ND	0.25	1	08/31/2017 19:02
Anthracene	ND	0.25	1	08/31/2017 19:02
Benzidine	ND	1.3	1	08/31/2017 19:02
Benzo (a) anthracene	ND	0.25	1	08/31/2017 19:02
Benzo (a) pyrene	ND	0.25	1	08/31/2017 19:02
Benzo (b) fluoranthene	ND	0.25	1	08/31/2017 19:02
Benzo (g,h,i) perylene	ND	0.25	1	08/31/2017 19:02
Benzo (k) fluoranthene	ND	0.25	1	08/31/2017 19:02
Benzyl Alcohol	ND	1.3	1	08/31/2017 19:02
1,1-Biphenyl	ND	0.25	1	08/31/2017 19:02
Bis (2-chloroethoxy) Methane	ND	0.25	1	08/31/2017 19:02
Bis (2-chloroethyl) Ether	ND	0.25	1	08/31/2017 19:02
Bis (2-chloroisopropyl) Ether	ND	0.25	1	08/31/2017 19:02
Bis (2-ethylhexyl) Adipate	ND	0.25	1	08/31/2017 19:02
Bis (2-ethylhexyl) Phthalate	ND	0.25	1	08/31/2017 19:02
4-Bromophenyl Phenyl Ether	ND	0.25	1	08/31/2017 19:02
Butylbenzyl Phthalate	ND	0.25	1	08/31/2017 19:02
4-Chloroaniline	ND	0.50	1	08/31/2017 19:02
4-Chloro-3-methylphenol	ND	0.25	1	08/31/2017 19:02
2-Chloronaphthalene	ND	0.25	1	08/31/2017 19:02
2-Chlorophenol	ND	0.25	1	08/31/2017 19:02
4-Chlorophenyl Phenyl Ether	ND	0.25	1	08/31/2017 19:02
Chrysene	ND	0.25	1	08/31/2017 19:02
Dibenzo (a,h) anthracene	ND	0.25	1	08/31/2017 19:02
Dibenzofuran	ND	0.25	1	08/31/2017 19:02
Di-n-butyl Phthalate	ND	0.25	1	08/31/2017 19:02
1,2-Dichlorobenzene	ND	0.25	1	08/31/2017 19:02
1,3-Dichlorobenzene	ND	0.25	1	08/31/2017 19:02
1,4-Dichlorobenzene	ND	0.25	1	08/31/2017 19:02
3,3-Dichlorobenzidine	ND	0.50	1	08/31/2017 19:02
2,4-Dichlorophenol	ND	0.25	1	08/31/2017 19:02
Diethyl Phthalate	ND	0.25	1	08/31/2017 19:02
2,4-Dimethylphenol	ND	0.25	1	08/31/2017 19:02
Dimethyl Phthalate	ND	0.25	1	08/31/2017 19:02
4,6-Dinitro-2-methylphenol	ND	1.3	1	08/31/2017 19:02

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Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/31/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 2	1708E74-002A	Soil	08/30/2017 15:30	GC17	144727

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	6.3	1	08/31/2017 19:02
2,4-Dinitrotoluene	ND	0.25	1	08/31/2017 19:02
2,6-Dinitrotoluene	ND	0.25	1	08/31/2017 19:02
Di-n-octyl Phthalate	ND	0.50	1	08/31/2017 19:02
1,2-Diphenylhydrazine	ND	0.25	1	08/31/2017 19:02
Fluoranthene	ND	0.25	1	08/31/2017 19:02
Fluorene	ND	0.25	1	08/31/2017 19:02
Hexachlorobenzene	ND	0.25	1	08/31/2017 19:02
Hexachlorobutadiene	ND	0.25	1	08/31/2017 19:02
Hexachlorocyclopentadiene	ND	1.3	1	08/31/2017 19:02
Hexachloroethane	ND	0.25	1	08/31/2017 19:02
Indeno (1,2,3-cd) pyrene	ND	0.25	1	08/31/2017 19:02
Isophorone	ND	0.25	1	08/31/2017 19:02
2-Methylnaphthalene	ND	0.25	1	08/31/2017 19:02
2-Methylphenol (o-Cresol)	ND	0.25	1	08/31/2017 19:02
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	08/31/2017 19:02
Naphthalene	ND	0.25	1	08/31/2017 19:02
2-Nitroaniline	ND	1.3	1	08/31/2017 19:02
3-Nitroaniline	ND	1.3	1	08/31/2017 19:02
4-Nitroaniline	ND	1.3	1	08/31/2017 19:02
Nitrobenzene	ND	0.25	1	08/31/2017 19:02
2-Nitrophenol	ND	1.3	1	08/31/2017 19:02
4-Nitrophenol	ND	1.3	1	08/31/2017 19:02
N-Nitrosodiphenylamine	ND	0.25	1	08/31/2017 19:02
N-Nitrosodi-n-propylamine	ND	0.25	1	08/31/2017 19:02
Pentachlorophenol	ND	1.3	1	08/31/2017 19:02
Phenanthrene	ND	0.25	1	08/31/2017 19:02
Phenol	ND	0.25	1	08/31/2017 19:02
Pyrene	ND	0.25	1	08/31/2017 19:02
Pyridine	ND	0.25	1	08/31/2017 19:02
1,2,4-Trichlorobenzene	ND	0.25	1	08/31/2017 19:02
2,4,5-Trichlorophenol	ND	0.25	1	08/31/2017 19:02
2,4,6-Trichlorophenol	ND	0.25	1	08/31/2017 19:02

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/31/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 2	1708E74-002A	Soil	08/30/2017 15:30	GC17	144727

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	
2-Fluorophenol	95		30-130	08/31/2017 19:02
Phenol-d5	89		30-130	08/31/2017 19:02
Nitrobenzene-d5	93		30-130	08/31/2017 19:02
2-Fluorobiphenyl	81		30-130	08/31/2017 19:02
2,4,6-Tribromophenol	60		16-130	08/31/2017 19:02
4-Terphenyl-d14	96		30-130	08/31/2017 19:02

Analyst(s): REB



Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/31/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 3	1708E74-003A	Soil	08/30/2017 15:30	GC17	144727

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.25	1	08/31/2017 19:30
Acenaphthylene	ND	0.25	1	08/31/2017 19:30
Acetochlor	ND	0.25	1	08/31/2017 19:30
Anthracene	ND	0.25	1	08/31/2017 19:30
Benzidine	ND	1.3	1	08/31/2017 19:30
Benzo (a) anthracene	ND	0.25	1	08/31/2017 19:30
Benzo (a) pyrene	ND	0.25	1	08/31/2017 19:30
Benzo (b) fluoranthene	ND	0.25	1	08/31/2017 19:30
Benzo (g,h,i) perylene	ND	0.25	1	08/31/2017 19:30
Benzo (k) fluoranthene	ND	0.25	1	08/31/2017 19:30
Benzyl Alcohol	ND	1.3	1	08/31/2017 19:30
1,1-Biphenyl	ND	0.25	1	08/31/2017 19:30
Bis (2-chloroethoxy) Methane	ND	0.25	1	08/31/2017 19:30
Bis (2-chloroethyl) Ether	ND	0.25	1	08/31/2017 19:30
Bis (2-chloroisopropyl) Ether	ND	0.25	1	08/31/2017 19:30
Bis (2-ethylhexyl) Adipate	ND	0.25	1	08/31/2017 19:30
Bis (2-ethylhexyl) Phthalate	ND	0.25	1	08/31/2017 19:30
4-Bromophenyl Phenyl Ether	ND	0.25	1	08/31/2017 19:30
Butylbenzyl Phthalate	ND	0.25	1	08/31/2017 19:30
4-Chloroaniline	ND	0.50	1	08/31/2017 19:30
4-Chloro-3-methylphenol	ND	0.25	1	08/31/2017 19:30
2-Chloronaphthalene	ND	0.25	1	08/31/2017 19:30
2-Chlorophenol	ND	0.25	1	08/31/2017 19:30
4-Chlorophenyl Phenyl Ether	ND	0.25	1	08/31/2017 19:30
Chrysene	ND	0.25	1	08/31/2017 19:30
Dibenzo (a,h) anthracene	ND	0.25	1	08/31/2017 19:30
Dibenzofuran	ND	0.25	1	08/31/2017 19:30
Di-n-butyl Phthalate	ND	0.25	1	08/31/2017 19:30
1,2-Dichlorobenzene	ND	0.25	1	08/31/2017 19:30
1,3-Dichlorobenzene	ND	0.25	1	08/31/2017 19:30
1,4-Dichlorobenzene	ND	0.25	1	08/31/2017 19:30
3,3-Dichlorobenzidine	ND	0.50	1	08/31/2017 19:30
2,4-Dichlorophenol	ND	0.25	1	08/31/2017 19:30
Diethyl Phthalate	ND	0.25	1	08/31/2017 19:30
2,4-Dimethylphenol	ND	0.25	1	08/31/2017 19:30
Dimethyl Phthalate	ND	0.25	1	08/31/2017 19:30
4,6-Dinitro-2-methylphenol	ND	1.3	1	08/31/2017 19:30

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/31/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 3	1708E74-003A	Soil	08/30/2017 15:30	GC17	144727
Analytes	Result	RL	DF	Date Analyzed	
2,4-Dinitrophenol	ND	6.3	1	08/31/2017 19:30	
2,4-Dinitrotoluene	ND	0.25	1	08/31/2017 19:30	
2,6-Dinitrotoluene	ND	0.25	1	08/31/2017 19:30	
Di-n-octyl Phthalate	ND	0.50	1	08/31/2017 19:30	
1,2-Diphenylhydrazine	ND	0.25	1	08/31/2017 19:30	
Fluoranthene	ND	0.25	1	08/31/2017 19:30	
Fluorene	ND	0.25	1	08/31/2017 19:30	
Hexachlorobenzene	ND	0.25	1	08/31/2017 19:30	
Hexachlorobutadiene	ND	0.25	1	08/31/2017 19:30	
Hexachlorocyclopentadiene	ND	1.3	1	08/31/2017 19:30	
Hexachloroethane	ND	0.25	1	08/31/2017 19:30	
Indeno (1,2,3-cd) pyrene	ND	0.25	1	08/31/2017 19:30	
Isophorone	ND	0.25	1	08/31/2017 19:30	
2-Methylnaphthalene	0.79	0.25	1	08/31/2017 19:30	
2-Methylphenol (o-Cresol)	ND	0.25	1	08/31/2017 19:30	
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	08/31/2017 19:30	
Naphthalene	ND	0.25	1	08/31/2017 19:30	
2-Nitroaniline	ND	1.3	1	08/31/2017 19:30	
3-Nitroaniline	ND	1.3	1	08/31/2017 19:30	
4-Nitroaniline	ND	1.3	1	08/31/2017 19:30	
Nitrobenzene	ND	0.25	1	08/31/2017 19:30	
2-Nitrophenol	ND	1.3	1	08/31/2017 19:30	
4-Nitrophenol	ND	1.3	1	08/31/2017 19:30	
N-Nitrosodiphenylamine	ND	0.25	1	08/31/2017 19:30	
N-Nitrosodi-n-propylamine	ND	0.25	1	08/31/2017 19:30	
Pentachlorophenol	ND	1.3	1	08/31/2017 19:30	
Phenanthrene	ND	0.25	1	08/31/2017 19:30	
Phenol	ND	0.25	1	08/31/2017 19:30	
Pyrene	ND	0.25	1	08/31/2017 19:30	
Pyridine	ND	0.25	1	08/31/2017 19:30	
1,2,4-Trichlorobenzene	ND	0.25	1	08/31/2017 19:30	
2,4,5-Trichlorophenol	ND	0.25	1	08/31/2017 19:30	
2,4,6-Trichlorophenol	ND	0.25	1	08/31/2017 19:30	

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/31/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 3	1708E74-003A	Soil	08/30/2017 15:30	GC17	144727

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorophenol	90	30-130		08/31/2017 19:30
Phenol-d5	83	30-130		08/31/2017 19:30
Nitrobenzene-d5	92	30-130		08/31/2017 19:30
2-Fluorobiphenyl	79	30-130		08/31/2017 19:30
2,4,6-Tribromophenol	62	16-130		08/31/2017 19:30
4-Terphenyl-d14	93	30-130		08/31/2017 19:30

Analyst(s): REB



Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/30/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 1	1708E74-001A	Soil	08/30/2017 15:30	ICP-MS3	144686

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	08/31/2017 11:39
Arsenic	9.2	0.50	1	08/31/2017 11:39
Barium	17	5.0	1	08/31/2017 11:39
Beryllium	ND	0.50	1	08/31/2017 11:39
Cadmium	ND	0.25	1	08/31/2017 11:39
Chromium	42	0.50	1	08/31/2017 11:39
Cobalt	7.6	0.50	1	08/31/2017 11:39
Copper	4.3	0.50	1	08/31/2017 11:39
Lead	6.4	0.50	1	08/31/2017 11:39
Mercury	ND	0.050	1	08/31/2017 11:39
Molybdenum	ND	0.50	1	08/31/2017 11:39
Nickel	42	0.50	1	08/31/2017 11:39
Selenium	ND	0.50	1	08/31/2017 11:39
Silver	ND	0.50	1	08/31/2017 11:39
Thallium	ND	0.50	1	08/31/2017 11:39
Vanadium	28	0.50	1	08/31/2017 11:39
Zinc	25	5.0	1	08/31/2017 11:39

Surrogates	REC (%)	Limits	
Terbium	107	70-130	08/31/2017 11:39

Analyst(s): DB



Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/30/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 2	1708E74-002A	Soil	08/30/2017 15:30	ICP-MS3	144686

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	08/31/2017 11:45
Arsenic	4.8	0.50	1	08/31/2017 11:45
Barium	54	5.0	1	08/31/2017 11:45
Beryllium	ND	0.50	1	08/31/2017 11:45
Cadmium	ND	0.25	1	08/31/2017 11:45
Chromium	34	0.50	1	08/31/2017 11:45
Cobalt	9.1	0.50	1	08/31/2017 11:45
Copper	7.0	0.50	1	08/31/2017 11:45
Lead	9.2	0.50	1	08/31/2017 11:45
Mercury	ND	0.050	1	08/31/2017 11:45
Molybdenum	ND	0.50	1	08/31/2017 11:45
Nickel	45	0.50	1	08/31/2017 11:45
Selenium	ND	0.50	1	08/31/2017 11:45
Silver	ND	0.50	1	08/31/2017 11:45
Thallium	ND	0.50	1	08/31/2017 11:45
Vanadium	31	0.50	1	08/31/2017 11:45
Zinc	31	5.0	1	08/31/2017 11:45

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	109	70-130	08/31/2017 11:45

Analyst(s): DB



Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/30/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 3	1708E74-003A	Soil	08/30/2017 15:30	ICP-MS3	144686

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	08/31/2017 11:52
Arsenic	6.1	0.50	1	08/31/2017 11:52
Barium	29	5.0	1	08/31/2017 11:52
Beryllium	ND	0.50	1	08/31/2017 11:52
Cadmium	ND	0.25	1	08/31/2017 11:52
Chromium	37	0.50	1	08/31/2017 11:52
Cobalt	8.0	0.50	1	08/31/2017 11:52
Copper	6.1	0.50	1	08/31/2017 11:52
Lead	11	0.50	1	08/31/2017 11:52
Mercury	ND	0.050	1	08/31/2017 11:52
Molybdenum	ND	0.50	1	08/31/2017 11:52
Nickel	39	0.50	1	08/31/2017 11:52
Selenium	ND	0.50	1	08/31/2017 11:52
Silver	ND	0.50	1	08/31/2017 11:52
Thallium	ND	0.50	1	08/31/2017 11:52
Vanadium	32	0.50	1	08/31/2017 11:52
Zinc	30	5.0	1	08/31/2017 11:52

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	109	70-130	08/31/2017 11:52

Analyst(s): DB



Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 9/1/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
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
Sample 1	1708E74-001A	Soil	08/30/2017 15:30	WetChem	144852

Analytes	Result	RL	DF	Date Analyzed
Asbestos	ND	0.25	1	09/05/2017 10:00

Analyst(s): DA

Analytical Comments: k10

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 2	1708E74-002A	Soil	08/30/2017 15:30	WetChem	144852

Analytes	Result	RL	DF	Date Analyzed
Asbestos	ND	0.25	1	09/05/2017 10:10

Analyst(s): DA

Analytical Comments: k10

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 3	1708E74-003A	Soil	08/30/2017 15:30	WetChem	144852

Analytes	Result	RL	DF	Date Analyzed
Asbestos	ND	0.25	1	09/05/2017 10:15

Analyst(s): DA

Analytical Comments: k10

 Angela Rydelius, Lab Manager



Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/30/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW5030B
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
Sample 1	1708E74-001A	Soil	08/30/2017 15:30	GC19	144693

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	2.2	1.0	1	09/01/2017 19:25
MTBE	---	0.050	1	09/01/2017 19:25
Benzene	---	0.0050	1	09/01/2017 19:25
Toluene	---	0.0050	1	09/01/2017 19:25
Ethylbenzene	---	0.0050	1	09/01/2017 19:25
Xylenes	---	0.015	1	09/01/2017 19:25

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	83	62-126	09/01/2017 19:25

Analyst(s): LT Analytical Comments: d7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 2	1708E74-002A	Soil	08/30/2017 15:30	GC19	144693

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	1.6	1.0	1	09/01/2017 15:43
MTBE	---	0.050	1	09/01/2017 15:43
Benzene	---	0.0050	1	09/01/2017 15:43
Toluene	---	0.0050	1	09/01/2017 15:43
Ethylbenzene	---	0.0050	1	09/01/2017 15:43
Xylenes	---	0.015	1	09/01/2017 15:43

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	81	62-126	09/01/2017 15:43

Analyst(s): LT Analytical Comments: d7



Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/30/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW5030B
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
Sample 3	1708E74-003A	Soil	08/30/2017 15:30	GC19	144693

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	7.4	1.0	1	09/01/2017 18:16
MTBE	---	0.050	1	09/01/2017 18:16
Benzene	---	0.0050	1	09/01/2017 18:16
Toluene	---	0.0050	1	09/01/2017 18:16
Ethylbenzene	---	0.0050	1	09/01/2017 18:16
Xylenes	---	0.015	1	09/01/2017 18:16

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	85	62-126	09/01/2017 18:16

Analyst(s): LT

Analytical Comments: d7



Analytical Report

Client: Granite Excavation
Date Received: 8/30/17 16:50
Date Prepared: 8/30/17
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 1	1708E74-001A	Soil	08/30/2017 15:30	GC6A	144702

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	3.3	1.0	1	08/31/2017 10:46
TPH-Motor Oil (C18-C36)	6.6	5.0	1	08/31/2017 10:46

Surrogates	REC (%)	Limits	Date Analyzed
C9	96	78-126	08/31/2017 10:46

Analyst(s): TK **Analytical Comments:** e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 2	1708E74-002A	Soil	08/30/2017 15:30	GC9b	144702

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	1.4	1.0	1	08/31/2017 13:40
TPH-Motor Oil (C18-C36)	5.7	5.0	1	08/31/2017 13:40

Surrogates	REC (%)	Limits	Date Analyzed
C9	99	78-126	08/31/2017 13:40

Analyst(s): TK **Analytical Comments:** e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sample 3	1708E74-003A	Soil	08/30/2017 15:30	GC9b	144702

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	11	1.0	1	08/31/2017 14:58
TPH-Motor Oil (C18-C36)	44	5.0	1	08/31/2017 14:58

Surrogates	REC (%)	Limits	Date Analyzed
C9	102	78-126	08/31/2017 14:58

Analyst(s): TK **Analytical Comments:** e7,e2,e8



Quality Control Report

Client: Granite Excavation
Date Prepared: 8/30/17
Date Analyzed: 8/31/17
Instrument: GC22, GC40
Matrix: Soil
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
BatchID: 144703
Extraction Method: SW3550B
Analytical Method: SW8081A/8082
Unit: mg/kg
Sample ID: MB/LCS/LCSD-144703
 1708E74-002AMS/MSD

QC Summary Report for SW8081A/8082

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Aldrin	ND	0.0010	-	-	-
a-BHC	ND	0.0010	-	-	-
b-BHC	ND	0.0010	-	-	-
d-BHC	ND	0.0010	-	-	-
g-BHC	ND	0.0010	-	-	-
Chlordane (Technical)	ND	0.025	-	-	-
a-Chlordane	ND	0.0010	-	-	-
g-Chlordane	ND	0.0010	-	-	-
p,p-DDD	ND	0.0010	-	-	-
p,p-DDE	ND	0.0010	-	-	-
p,p-DDT	ND	0.0010	-	-	-
Dieldrin	ND	0.0010	-	-	-
Endosulfan I	ND	0.0010	-	-	-
Endosulfan II	ND	0.0010	-	-	-
Endosulfan sulfate	ND	0.0010	-	-	-
Endrin	ND	0.0010	-	-	-
Endrin aldehyde	ND	0.0010	-	-	-
Endrin ketone	ND	0.0010	-	-	-
Heptachlor	ND	0.0010	-	-	-
Heptachlor epoxide	ND	0.0010	-	-	-
Hexachlorobenzene	ND	0.010	-	-	-
Hexachlorocyclopentadiene	ND	0.020	-	-	-
Methoxychlor	ND	0.0010	-	-	-
Toxaphene	ND	0.050	-	-	-
Aroclor1016	ND	0.050	-	-	-
Aroclor1221	ND	0.050	-	-	-
Aroclor1232	ND	0.050	-	-	-
Aroclor1242	ND	0.050	-	-	-
Aroclor1248	ND	0.050	-	-	-
Aroclor1254	ND	0.050	-	-	-
Aroclor1260	ND	0.050	-	-	-
PCBs, total	ND	0.050	-	-	-
Surrogate Recovery					
Decachlorobiphenyl	0.04053		0.050	81	70-130



Quality Control Report

Client: Granite Excavation
Date Prepared: 8/30/17
Date Analyzed: 8/31/17
Instrument: GC22, GC40
Matrix: Soil
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
BatchID: 144703
Extraction Method: SW3550B
Analytical Method: SW8081A/8082
Unit: mg/kg
Sample ID: MB/LCS/LCSD-144703
 1708E74-002AMS/MSD

QC Summary Report for SW8081A/8082

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aldrin	0.0505	-	0.050	101	-	70-130	-	-
a-BHC	0.0633	-	0.050	127	-	70-130	-	-
b-BHC	0.0507	-	0.050	101	-	70-130	-	-
d-BHC	0.0515	-	0.050	103	-	70-130	-	-
g-BHC	0.0600	-	0.050	120	-	70-130	-	-
a-Chlordane	0.0470	-	0.050	94	-	70-130	-	-
g-Chlordane	0.0503	-	0.050	101	-	70-130	-	-
p,p-DDD	0.0491	-	0.050	98	-	70-130	-	-
p,p-DDE	0.0512	-	0.050	102	-	70-130	-	-
p,p-DDT	0.0598	-	0.050	120	-	70-130	-	-
Dieldrin	0.0640	-	0.050	128	-	70-130	-	-
Endosulfan I	0.0555	-	0.050	111	-	70-130	-	-
Endosulfan II	0.0500	-	0.050	100	-	70-130	-	-
Endosulfan sulfate	0.0462	-	0.050	92	-	70-130	-	-
Endrin	0.0566	-	0.050	113	-	70-130	-	-
Endrin aldehyde	0.0520	-	0.050	104	-	70-130	-	-
Endrin ketone	0.0503	-	0.050	101	-	70-130	-	-
Heptachlor	0.0734	-	0.050	147, F2	-	70-130	-	-
Heptachlor epoxide	0.0510	-	0.050	102	-	70-130	-	-
Hexachlorobenzene	0.0460	-	0.050	92	-	50-150	-	-
Hexachlorocyclopentadiene	0.0442	-	0.050	88	-	50-150	-	-
Methoxychlor	0.0576	-	0.050	115	-	70-130	-	-
Aroclor1016	0.128	0.132	0.15	86	88	70-130	2.96	20
Aroclor1260	0.116	0.112	0.15	77	74	70-130	4.08	20

Surrogate Recovery

Decachlorobiphenyl	0.0409	0.0373	0.050	82	75	70-130	9.22	20
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aldrin	0.0556	0.0559	0.050	ND	111	112	70-130	0.595	20
a-BHC	0.0544	0.0546	0.050	ND	109	109	70-130	0	20
b-BHC	0.0511	0.0515	0.050	ND	102	103	70-130	0.899	20
d-BHC	0.0620	0.0626	0.050	ND	124	125	70-130	0.988	20
g-BHC	0.0495	0.0498	0.050	ND	99	100	70-130	0.515	20
a-Chlordane	0.0534	0.0532	0.050	ND	107	106	70-130	0.476	20
g-Chlordane	0.0600	0.0607	0.050	ND	120	121	70-130	1.20	20
p,p-DDD	0.0617	0.0625	0.050	ND	123	125	70-130	1.30	20

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QA/QC Officer



Quality Control Report

Client: Granite Excavation
Date Prepared: 8/30/17
Date Analyzed: 8/31/17
Instrument: GC22, GC40
Matrix: Soil
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
BatchID: 144703
Extraction Method: SW3550B
Analytical Method: SW8081A/8082
Unit: mg/kg
Sample ID: MB/LCS/LCSD-144703
 1708E74-002AMS/MSD

QC Summary Report for SW8081A/8082

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
p,p-DDE	0.0606	0.0614	0.050	ND	121	123	70-130	1.15	20
p,p-DDT	0.0588	0.0595	0.050	ND	118	119	70-130	1.24	20
Dieldrin	0.0629	0.0640	0.050	ND	126	128	70-130	1.78	20
Endosulfan I	0.0540	0.0554	0.050	ND	108	111	70-130	2.65	20
Endosulfan II	0.0607	0.0612	0.050	ND	121	122	70-130	0.803	20
Endosulfan sulfate	0.0524	0.0531	0.050	ND	105	106	70-130	1.26	20
Endrin	0.0587	0.0589	0.050	ND	117	118	70-130	0.448	20
Endrin aldehyde	0.0544	0.0544	0.050	ND	109	109	70-130	0	20
Endrin ketone	0.0557	0.0564	0.050	ND	111	113	70-130	1.36	20
Heptachlor	0.0554	0.0558	0.050	ND	111	112	70-130	0.718	20
Heptachlor epoxide	0.0542	0.0546	0.050	ND	108	109	70-130	0.648	20
Hexachlorobenzene	0.0477	0.0481	0.050	ND	95	96	50-150	0.674	20
Hexachlorocyclopentadiene	0.0242	0.0215	0.050	ND	48,F1	43,F1	50-150	11.7	20
Methoxychlor	0.0563	0.0571	0.050	ND	113	114	70-130	1.38	20
Surrogate Recovery									
Decachlorobiphenyl	0.0546	0.0557	0.050		109	111	70-130	1.97	20



Quality Control Report

Client: Granite Excavation
Date Prepared: 8/30/17
Date Analyzed: 8/31/17
Instrument: GC28, GC38
Matrix: Soil
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
BatchID: 144697
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-144697
 1708E64-005AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	0.876	0.10	1	-	88	48-156
tert-Amyl methyl ether (TAME)	ND	0.0416	0.0050	0.050	-	83	56-115
Benzene	ND	0.0429	0.0050	0.050	-	86	63-131
Bromobenzene	ND	0.0490	0.0050	0.050	-	98	66-127
Bromochloromethane	ND	0.0458	0.0050	0.050	-	92	64-124
Bromodichloromethane	ND	0.0428	0.0050	0.050	-	86	64-120
Bromoform	ND	0.0353	0.0050	0.050	-	71	48-92
Bromomethane	ND	0.0377	0.0050	0.050	-	75	25-163
2-Butanone (MEK)	ND	0.169	0.020	0.20	-	85	51-133
t-Butyl alcohol (TBA)	ND	0.199	0.050	0.20	-	100	52-129
n-Butyl benzene	ND	0.0614	0.0050	0.050	-	123	83-200
sec-Butyl benzene	ND	0.0584	0.0050	0.050	-	117	81-199
tert-Butyl benzene	ND	0.0608	0.0050	0.050	-	122	79-178
Carbon Disulfide	ND	0.0462	0.0050	0.050	-	92	64-136
Carbon Tetrachloride	ND	0.0441	0.0050	0.050	-	88	66-140
Chlorobenzene	ND	0.0452	0.0050	0.050	-	90	73-116
Chloroethane	ND	0.0317	0.0050	0.050	-	63	35-147
Chloroform	ND	0.0450	0.0050	0.050	-	90	65-130
Chloromethane	ND	0.0253	0.0050	0.050	-	51	30-137
2-Chlorotoluene	ND	0.0530	0.0050	0.050	-	106	75-152
4-Chlorotoluene	ND	0.0534	0.0050	0.050	-	107	71-148
Dibromochloromethane	ND	0.0438	0.0050	0.050	-	88	61-106
1,2-Dibromo-3-chloropropane	ND	0.0158	0.0040	0.020	-	79	36-120
1,2-Dibromoethane (EDB)	ND	0.0470	0.0040	0.050	-	94	67-118
Dibromomethane	ND	0.0430	0.0050	0.050	-	86	61-116
1,2-Dichlorobenzene	ND	0.0411	0.0050	0.050	-	82	59-106
1,3-Dichlorobenzene	ND	0.0470	0.0050	0.050	-	94	75-129
1,4-Dichlorobenzene	ND	0.0465	0.0050	0.050	-	93	66-127
Dichlorodifluoromethane	ND	0.0124	0.0050	0.050	-	25	13-74
1,1-Dichloroethane	ND	0.0435	0.0050	0.050	-	87	65-134
1,2-Dichloroethane (1,2-DCA)	ND	0.0418	0.0040	0.050	-	84	57-131
1,1-Dichloroethene	ND	0.0444	0.0050	0.050	-	89	62-127
cis-1,2-Dichloroethene	ND	0.0453	0.0050	0.050	-	91	66-130
trans-1,2-Dichloroethene	ND	0.0440	0.0050	0.050	-	88	60-131
1,2-Dichloropropane	ND	0.0436	0.0050	0.050	-	87	63-127
1,3-Dichloropropane	ND	0.0466	0.0050	0.050	-	93	68-124
2,2-Dichloropropane	ND	0.0440	0.0050	0.050	-	88	63-150

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Quality Control Report

Client: Granite Excavation
Date Prepared: 8/30/17
Date Analyzed: 8/31/17
Instrument: GC28, GC38
Matrix: Soil
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
BatchID: 144697
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-144697
 1708E64-005AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	0.0463	0.0050	0.050	-	93	67-134
cis-1,3-Dichloropropene	ND	0.0476	0.0050	0.050	-	95	65-138
trans-1,3-Dichloropropene	ND	0.0446	0.0050	0.050	-	89	66-124
Diisopropyl ether (DIPE)	ND	0.0430	0.0050	0.050	-	86	58-129
Ethanol	ND	1.92	0.50	2.5	-	77	23-175
Ethylbenzene	ND	0.0500	0.0050	0.050	-	100	73-145
Ethyl tert-butyl ether (ETBE)	ND	0.0461	0.0050	0.050	-	92	62-125
Freon 113	ND	0.0372	0.0050	0.050	-	75	55-116
Hexachlorobutadiene	ND	0.0608	0.0050	0.050	-	122	75-178
Hexachloroethane	ND	0.0554	0.0050	0.050	-	111	75-152
2-Hexanone	ND	0.0339	0.0050	0.050	-	68	41-113
Isopropylbenzene	ND	0.0622	0.0050	0.050	-	124	67-172
4-Isopropyl toluene	ND	0.0610	0.0050	0.050	-	122	88-171
Methyl-t-butyl ether (MTBE)	ND	0.0455	0.0050	0.050	-	91	58-122
Methylene chloride	ND	0.0426	0.0050	0.050	-	85	57-140
4-Methyl-2-pentanone (MIBK)	ND	0.0364	0.0050	0.050	-	73	42-117
Naphthalene	ND	0.0273	0.0050	0.050	-	55	29-65
n-Propyl benzene	ND	0.0598	0.0050	0.050	-	120	85-174
Styrene	ND	0.0445	0.0050	0.050	-	89	63-126
1,1,1,2-Tetrachloroethane	ND	0.0506	0.0050	0.050	-	101	68-131
1,1,2,2-Tetrachloroethane	ND	0.0407	0.0050	0.050	-	81	45-121
Tetrachloroethene	ND	0.0516	0.0050	0.050	-	103	65-150
Toluene	ND	0.0492	0.0050	0.050	-	98	72-135
1,2,3-Trichlorobenzene	ND	0.0326	0.0050	0.050	-	65	35-80
1,2,4-Trichlorobenzene	ND	0.0420	0.0050	0.050	-	84	45-103
1,1,1-Trichloroethane	ND	0.0466	0.0050	0.050	-	93	67-137
1,1,2-Trichloroethane	ND	0.0451	0.0050	0.050	-	90	67-117
Trichloroethene	ND	0.0470	0.0050	0.050	-	94	62-135
Trichlorofluoromethane	ND	0.0380	0.0050	0.050	-	76	56-124
1,2,3-Trichloropropane	ND	0.0447	0.0050	0.050	-	89	58-133
1,2,4-Trimethylbenzene	ND	0.0571	0.0050	0.050	-	114	78-161
1,3,5-Trimethylbenzene	ND	0.0590	0.0050	0.050	-	118	85-170
Vinyl Chloride	ND	0.0295	0.0050	0.050	-	59	32-142
Xylenes, Total	ND	0.146	0.0050	0.15	-	97	70-137

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Quality Control Report

Client: Granite Excavation
Date Prepared: 8/30/17
Date Analyzed: 8/31/17
Instrument: GC28, GC38
Matrix: Soil
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
BatchID: 144697
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-144697
 1708E64-005AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.1415	0.145		0.12	113	116	87-127
Toluene-d8	0.1492	0.148		0.12	119	118	93-141
4-BFB	0.014	0.0148		0.012	112	118	84-137
Benzene-d6	0.1033	0.100		0.10	103	100	67-131
Ethylbenzene-d10	0.1107	0.110		0.10	111	110	78-153
1,2-DCB-d4	0.08823	0.0910		0.10	88	91	63-109



Quality Control Report

Client: Granite Excavation
Date Prepared: 8/30/17
Date Analyzed: 8/31/17
Instrument: GC28, GC38
Matrix: Soil
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
BatchID: 144697
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-144697
 1708E64-005AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	0.897	0.859	1	ND	90	86	36-141	4.33	20
tert-Amyl methyl ether (TAME)	0.0366	0.0364	0.050	ND	73	73	46-105	0	20
Benzene	0.0421	0.0401	0.050	ND	84	80	46-124	4.95	20
Bromobenzene	0.0429	0.0407	0.050	ND	86	81	50-119	5.17	20
Bromochloromethane	0.0414	0.0392	0.050	ND	83	78	42-122	5.62	20
Bromodichloromethane	0.0430	0.0420	0.050	ND	86	84	48-112	2.19	20
Bromoform	0.0320	0.0318	0.050	ND	64	64	36-90	0	20
Bromomethane	0.0432	0.0389	0.050	ND	86	78	10-149	10.5	20
2-Butanone (MEK)	0.150	0.150	0.20	ND	70	70	43-114	0	20
t-Butyl alcohol (TBA)	0.156	0.152	0.20	ND	78	76	33-123	2.74	20
n-Butyl benzene	0.0572	0.0524	0.050	ND	114	105	40-185	8.62	20
sec-Butyl benzene	0.0544	0.0496	0.050	ND	109	99	40-183	9.25	20
tert-Butyl benzene	0.0526	0.0483	0.050	ND	105	97	44-168	8.47	20
Carbon Disulfide	0.0493	0.0449	0.050	ND	99	90	23-139	9.37	20
Carbon Tetrachloride	0.0485	0.0456	0.050	ND	97	91	43-133	6.16	20
Chlorobenzene	0.0428	0.0400	0.050	ND	85	80	51-115	6.54	20
Chloroethane	0.0438	0.0386	0.050	ND	88	77	16-138	12.8	20
Chloroform	0.0438	0.0419	0.050	ND	88	84	54-117	4.44	20
Chloromethane	0.0390	0.0343	0.050	ND	78	69	14-128	12.8	20
2-Chlorotoluene	0.0489	0.0456	0.050	ND	98	91	54-141	6.99	20
4-Chlorotoluene	0.0477	0.0448	0.050	ND	95	90	52-134	6.25	20
Dibromochloromethane	0.0375	0.0362	0.050	ND	75	72	46-102	3.58	20
1,2-Dibromo-3-chloropropane	0.0126	0.0122	0.020	ND	63	61	16-120	2.65	20
1,2-Dibromoethane (EDB)	0.0395	0.0382	0.050	ND	79	76	48-113	3.46	20
Dibromomethane	0.0387	0.0372	0.050	ND	77	74	44-110	3.98	20
1,2-Dichlorobenzene	0.0365	0.0347	0.050	ND	73	69	43-106	5.08	20
1,3-Dichlorobenzene	0.0458	0.0434	0.050	ND	92	87	49-128	5.27	20
1,4-Dichlorobenzene	0.0423	0.0402	0.050	ND	85	80	48-120	5.06	20
Dichlorodifluoromethane	0.0178	0.0157	0.050	ND	36	31	8-63	12.6	20
1,1-Dichloroethane	0.0440	0.0416	0.050	ND	88	83	50-122	5.55	20
1,2-Dichloroethane (1,2-DCA)	0.0396	0.0393	0.050	ND	79	79	46-116	0	20
1,1-Dichloroethene	0.0450	0.0417	0.050	ND	90	83	37-124	7.71	20
cis-1,2-Dichloroethene	0.0428	0.0408	0.050	ND	86	82	47-123	4.88	20
trans-1,2-Dichloroethene	0.0440	0.0409	0.050	ND	88	82	31-131	7.21	20
1,2-Dichloropropane	0.0408	0.0392	0.050	ND	82	78	50-116	3.99	20
1,3-Dichloropropane	0.0399	0.0384	0.050	ND	80	77	52-115	3.74	20
2,2-Dichloropropane	0.0515	0.0488	0.050	ND	103	98	43-137	5.27	20

(Cont.)



Quality Control Report

Client: Granite Excavation
Date Prepared: 8/30/17
Date Analyzed: 8/31/17
Instrument: GC28, GC38
Matrix: Soil
Project: 1313; 2330 Webster Street


WorkOrder: 1708E74
BatchID: 144697
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-144697
 1708E64-005AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloropropene	0.0444	0.0420	0.050	ND	89	84	43-126	5.57	20
cis-1,3-Dichloropropene	0.0425	0.0401	0.050	ND	85	80	35-134	5.72	20
trans-1,3-Dichloropropene	0.0394	0.0388	0.050	ND	79	78	35-124	1.64	20
Diisopropyl ether (DIPE)	0.0404	0.0388	0.050	ND	81	78	49-116	4.09	20
Ethanol	1.99	2.01	2.5	ND	79	80	22-153	1.06	20
Ethylbenzene	0.0478	0.0444	0.050	ND	96	89	49-137	7.42	20
Ethyl tert-butyl ether (ETBE)	0.0398	0.0391	0.050	ND	79	78	50-113	1.60	20
Freon 113	0.0390	0.0357	0.050	ND	78	71	28-114	8.77	20
Hexachlorobutadiene	0.0593	0.0544	0.050	ND	119	109	22-180	8.75	20
Hexachloroethane	0.0505	0.0457	0.050	ND	96	86	28-158	10.1	20
2-Hexanone	0.0286	0.0285	0.050	ND	57	57	31-102	0	20
Isopropylbenzene	0.0547	0.0505	0.050	ND	109	101	50-153	8.11	20
4-Isopropyl toluene	0.0542	0.0500	0.050	ND	108	100	41-171	7.98	20
Methyl-t-butyl ether (MTBE)	0.0388	0.0385	0.050	ND	78	77	48-110	0.765	20
Methylene chloride	0.0475	0.0438	0.050	ND	95	88	42-127	8.03	20
4-Methyl-2-pentanone (MIBK)	0.0323	0.0330	0.050	ND	65	66	24-114	2.18	20
Naphthalene	0.0207	0.0204	0.050	ND	40	40	19-69	0	20
n-Propyl benzene	0.0550	0.0503	0.050	ND	110	101	46-168	8.84	20
Styrene	0.0428	0.0401	0.050	ND	86	80	42-122	6.51	20
1,1,1,2-Tetrachloroethane	0.0481	0.0444	0.050	ND	96	89	52-121	8.09	20
1,1,2,2-Tetrachloroethane	0.0352	0.0338	0.050	ND	70	68	27-116	4.12	20
Tetrachloroethene	0.0497	0.0463	0.050	ND	99	93	37-149	7.06	20
Toluene	0.0459	0.0425	0.050	ND	92	85	52-124	7.69	20
1,2,3-Trichlorobenzene	0.0268	0.0266	0.050	ND	54	53	20-86	0.638	20
1,2,4-Trichlorobenzene	0.0350	0.0347	0.050	ND	70	69	24-107	0.862	20
1,1,1-Trichloroethane	0.0462	0.0442	0.050	ND	92	88	48-128	4.21	20
1,1,2-Trichloroethane	0.0387	0.0366	0.050	ND	77	73	51-110	5.42	20
Trichloroethene	0.0426	0.0401	0.050	ND	85	80	42-128	5.92	20
Trichlorofluoromethane	0.0413	0.0373	0.050	ND	83	75	31-121	10.3	20
1,2,3-Trichloropropane	0.0364	0.0356	0.050	ND	73	71	50-115	2.37	20
1,2,4-Trimethylbenzene	0.0517	0.0478	0.050	ND	103	96	48-151	7.97	20
1,3,5-Trimethylbenzene	0.0523	0.0492	0.050	ND	105	98	51-159	6.01	20
Vinyl Chloride	0.0406	0.0350	0.050	ND	81	70	11-136	15.1	20
Xylenes, Total	0.140	0.130	0.15	ND	93	87	38-141	7.24	20

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP

 QA/QC Officer



Quality Control Report

Client: Granite Excavation
Date Prepared: 8/30/17
Date Analyzed: 8/31/17
Instrument: GC28, GC38
Matrix: Soil
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
BatchID: 144697
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-144697
 1708E64-005AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Surrogate Recovery									
Dibromofluoromethane	0.132	0.134	0.12		105	107	82-136	1.47	20
Toluene-d8	0.140	0.138	0.12		112	110	92-139	1.43	20
4-BFB	0.0123	0.0127	0.012		98	101	82-135	3.32	20
Benzene-d6	0.0975	0.0915	0.10		97	91	55-122	6.35	20
Ethylbenzene-d10	0.106	0.0977	0.10		106	98	58-141	7.95	20
1,2-DCB-d4	0.0814	0.0772	0.10		81	77	51-107	5.41	20



Quality Control Report

Client: Granite Excavation
Date Prepared: 8/31/17
Date Analyzed: 8/31/17
Instrument: GC17
Matrix: Soil
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
BatchID: 144727
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-144727

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	3.18	0.25	5	-	64	46-118
Acenaphthylene	ND	3.34	0.25	5	-	67	43-122
Acetochlor	ND	-	0.25	-	-	-	-
Anthracene	ND	3.32	0.25	5	-	66	47-125
Benzidine	ND	1.31	1.3	5	-	26	13-83
Benzo (a) anthracene	ND	3.51	0.25	5	-	70	53-117
Benzo (a) pyrene	ND	4.62	0.25	5	-	92	53-138
Benzo (b) fluoranthene	ND	4.13	0.25	5	-	83	48-125
Benzo (g,h,i) perylene	ND	4.62	0.25	5	-	92	51-146
Benzo (k) fluoranthene	ND	4.37	0.25	5	-	87	53-124
Benzyl Alcohol	ND	3.81	1.3	5	-	76	51-105
1,1-Biphenyl	ND	-	0.25	-	-	-	-
Bis (2-chloroethoxy) Methane	ND	3.68	0.25	5	-	74	48-115
Bis (2-chloroethyl) Ether	ND	3.62	0.25	5	-	72	51-105
Bis (2-chloroisopropyl) Ether	ND	3.82	0.25	5	-	76, F2	85-119
Bis (2-ethylhexyl) Adipate	ND	4.95	0.25	5	-	99	46-117
Bis (2-ethylhexyl) Phthalate	ND	3.98	0.25	5	-	80	50-124
4-Bromophenyl Phenyl Ether	ND	3.93	0.25	5	-	79	70-112
Butylbenzyl Phthalate	ND	4.70	0.25	5	-	94	55-127
4-Chloroaniline	ND	2.52	0.50	5	-	50	18-77
4-Chloro-3-methylphenol	ND	4.21	0.25	5	-	84	49-123
2-Chloronaphthalene	ND	3.12	0.25	5	-	62	44-109
2-Chlorophenol	ND	3.74	0.25	5	-	75	55-116
4-Chlorophenyl Phenyl Ether	ND	3.81	0.25	5	-	76	45-122
Chrysene	ND	3.52	0.25	5	-	70	54-116
Dibenzo (a,h) anthracene	ND	4.60	0.25	5	-	92	52-141
Dibenzofuran	ND	3.62	0.25	5	-	72	46-117
Di-n-butyl Phthalate	ND	3.54	0.25	5	-	71	45-126
1,2-Dichlorobenzene	ND	3.74	0.25	5	-	75	55-105
1,3-Dichlorobenzene	ND	3.64	0.25	5	-	73	51-104
1,4-Dichlorobenzene	ND	3.35	0.25	5	-	67	50-102
3,3-Dichlorobenzidine	ND	2.86	0.50	5	-	57	20-84
2,4-Dichlorophenol	ND	4.38	0.25	5	-	88	54-124
Diethyl Phthalate	ND	3.44	0.25	5	-	69	42-118
2,4-Dimethylphenol	ND	4.09	0.25	5	-	82	53-120
Dimethyl Phthalate	ND	3.35	0.25	5	-	67	45-118
4,6-Dinitro-2-methylphenol	ND	4.54	1.3	5	-	91	32-126

(Cont.)

NELAP 4033ORELAP

QA/QC Officer



Quality Control Report

Client: Granite Excavation
Date Prepared: 8/31/17
Date Analyzed: 8/31/17
Instrument: GC17
Matrix: Soil
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
BatchID: 144727
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-144727

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
2,4-Dinitrophenol	ND	3.91	6.3	5	-	78	20-130
2,4-Dinitrotoluene	ND	4.04	0.25	5	-	81	47-117
2,6-Dinitrotoluene	ND	4.18	0.25	5	-	84	48-121
Di-n-octyl Phthalate	ND	4.68	0.50	5	-	94	40-150
1,2-Diphenylhydrazine	ND	3.86	0.25	5	-	77, F2	88-117
Fluoranthene	ND	3.40	0.25	5	-	68	45-126
Fluorene	ND	3.25	0.25	5	-	65	43-118
Hexachlorobenzene	ND	3.66	0.25	5	-	73	47-130
Hexachlorobutadiene	ND	3.72	0.25	5	-	74	50-121
Hexachlorocyclopentadiene	ND	1.77	1.3	5	-	35	30-89
Hexachloroethane	ND	3.53	0.25	5	-	71	50-106
Indeno (1,2,3-cd) pyrene	ND	4.44	0.25	5	-	89	51-138
Isophorone	ND	3.06	0.25	5	-	61	38-92
2-Methylnaphthalene	ND	3.64	0.25	5	-	73	51-121
2-Methylphenol (o-Cresol)	ND	3.90	0.25	5	-	78	48-114
3 & 4-Methylphenol (m,p-Cresol)	ND	3.59	0.25	5	-	72	30-130
Naphthalene	ND	3.32	0.25	5	-	66	50-113
2-Nitroaniline	ND	3.86	1.3	5	-	77	45-115
3-Nitroaniline	ND	3.59	1.3	5	-	72	31-93
4-Nitroaniline	ND	4.15	1.3	5	-	83	41-108
Nitrobenzene	ND	4.24	0.25	5	-	85	49-122
2-Nitrophenol	ND	4.23	1.3	5	-	85	54-121
4-Nitrophenol	ND	2.88	1.3	5	-	57	40-102
N-Nitrosodiphenylamine	ND	-	0.25	-	-	-	-
N-Nitrosodi-n-propylamine	ND	3.21	0.25	5	-	64	47-108
Pentachlorophenol	ND	4.05	1.3	5	-	81	39-134
Phenanthrene	ND	3.23	0.25	5	-	65	49-123
Phenol	ND	3.46	0.25	5	-	69	49-107
Pyrene	ND	4.03	0.25	5	-	81	55-124
Pyridine	ND	5.90	0.25	5	-	118	70-130
1,2,4-Trichlorobenzene	ND	3.96	0.25	5	-	79	51-121
2,4,5-Trichlorophenol	ND	3.86	0.25	5	-	77	45-126
2,4,6-Trichlorophenol	ND	3.67	0.25	5	-	73	46-128



Quality Control Report

Client: Granite Excavation
Date Prepared: 8/31/17
Date Analyzed: 8/31/17
Instrument: GC17
Matrix: Soil
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
BatchID: 144727
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-144727

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
2-Fluorophenol	5.155	4.18		5	103	84	47-125
Phenol-d5	4.75	4.18		5	95	84	45-117
Nitrobenzene-d5	5.264	4.54		5	105	91	39-121
2-Fluorobiphenyl	4.522	3.91		5	90	78	35-120
2,4,6-Tribromophenol	3.657	3.83		5	73	77	32-111
4-Terphenyl-d14	5.111	4.79		5	102	96	32-128



Quality Control Report

Client: Granite Excavation
Date Prepared: 8/30/17
Date Analyzed: 9/1/17
Instrument: ICP-MS2
Matrix: Soil
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
BatchID: 144686
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-144686
 1707639-012AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Antimony	ND	50.0	0.50	50	-	100	75-125
Arsenic	ND	51.8	0.50	50	-	104	75-125
Barium	ND	521	5.0	500	-	104	75-125
Beryllium	ND	49.5	0.50	50	-	99	75-125
Cadmium	ND	51.2	0.25	50	-	102	75-125
Chromium	ND	51.6	0.50	50	-	103	75-125
Cobalt	ND	49.3	0.50	50	-	99	75-125
Copper	ND	52.6	0.50	50	-	105	75-125
Lead	ND	49.9	0.50	50	-	100	75-125
Mercury	ND	1.33	0.050	1.25	-	106	75-125
Molybdenum	ND	48.0	0.50	50	-	96	75-125
Nickel	ND	52.4	0.50	50	-	105	75-125
Selenium	ND	50.7	0.50	50	-	101	75-125
Silver	ND	47.7	0.50	50	-	95	75-125
Thallium	ND	46.4	0.50	50	-	93	75-125
Vanadium	ND	51.7	0.50	50	-	103	75-125
Zinc	ND	508	5.0	500	-	102	75-125
Surrogate Recovery							
Terbium	525.3	525		500	105	105	70-130



Quality Control Report

Client: Granite Excavation
Date Prepared: 8/30/17
Date Analyzed: 9/1/17
Instrument: ICP-MS2
Matrix: Soil
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
BatchID: 144686
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-144686
 1707639-012AMS/MSD

QC Summary Report for Metals

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	51.1	49.1	50	ND	102	98	75-125	3.91	20
Arsenic	65.5	65.3	50	12	107	107	75-125	0	20
Barium	543	528	500	12	106	103	75-125	2.76	20
Beryllium	49.5	48.5	50	ND	99	97	75-125	2.10	20
Cadmium	50.7	50.2	50	ND	101	100	75-125	1.07	20
Chromium	77.5	80.7	50	34	87	93	75-125	4.02	20
Cobalt	52.5	51.8	50	4.5	96	95	75-125	1.44	20
Copper	54.4	54.4	50	3.2	102	102	75-125	0	20
Lead	52.2	51.0	50	1.773	101	99	75-125	2.21	20
Mercury	1.25	1.25	1.25	ND	99	99	75-125	0	20
Molybdenum	48.2	46.4	50	ND	96	93	75-125	3.80	20
Nickel	71.6	70.6	50	22	98	96	75-125	1.49	20
Selenium	49.6	48.7	50	ND	99	97	75-125	1.93	20
Silver	48.1	46.5	50	ND	96	93	75-125	3.32	20
Thallium	47.1	46.1	50	ND	94	92	75-125	2.10	20
Vanadium	76.0	77.9	50	32	88	92	75-125	2.46	20
Zinc	511	513	500	16	99	99	75-125	0	20

Surrogate Recovery

Terbium	537	522	500		107	104	70-130	2.76	20
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Analyte	DLT Result	DLTRef Val	%D	%D Limit
Antimony	ND<2.5	ND	-	-
Arsenic	12.7	12	5.83	20
Barium	ND<25	12	-	-
Beryllium	ND<2.5	ND	-	-
Cadmium	ND<1.2	ND	-	-
Chromium	36.2	34	6.47	20
Cobalt	4.92	4.5	9.33	-
Copper	3.37	3.2	5.31	-
Lead	ND<2.5	1.773	-	-
Mercury	ND<0.25	ND	-	-
Molybdenum	ND<2.5	ND	-	-
Nickel	23.7	22	7.73	20
Selenium	ND<2.5	ND	-	-

(Cont.)

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QA/QC Officer



Quality Control Report

Client: Granite Excavation
Date Prepared: 8/30/17
Date Analyzed: 9/1/17
Instrument: ICP-MS2
Matrix: Soil
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
BatchID: 144686
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-144686
 1707639-012AMS/MSD

QC Summary Report for Metals

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Silver	ND<2.5	ND	-	-
Thallium	ND<2.5	ND	-	-
Vanadium	34.0	32	6.25	20
Zinc	ND<25	16	-	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



Quality Control Report

Client: Granite Excavation
Date Prepared: 8/30/17
Date Analyzed: 8/31/17
Instrument: GC19
Matrix: Soil
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
BatchID: 144693
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS-144693

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	1.0	-	-	-
MTBE	ND	0.050	-	-	-
Benzene	ND	0.0050	-	-	-
Toluene	ND	0.0050	-	-	-
Ethylbenzene	ND	0.0050	-	-	-
Xylenes	ND	0.015	-	-	-

Surrogate Recovery

2-Fluorotoluene	0.08612		0.10	86	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)	0.557	-	0.60	93	-	82-118	-	-
MTBE	0.0863	-	0.10	86	-	61-119	-	-
Benzene	0.112	-	0.10	112	-	77-128	-	-
Toluene	0.115	-	0.10	115	-	74-132	-	-
Ethylbenzene	0.112	-	0.10	112	-	84-127	-	-
Xylenes	0.320	-	0.30	107	-	86-129	-	-

Surrogate Recovery

2-Fluorotoluene	0.0942	-	0.10	94	-	75-134	-	-
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Quality Control Report

Client: Granite Excavation
Date Prepared: 8/30/17
Date Analyzed: 8/31/17
Instrument: GC6A
Matrix: Soil
Project: 1313; 2330 Webster Street

WorkOrder: 1708E74
BatchID: 144702
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-144702
 1708E74-001AMS/MSD

QC Report for SW8015B w/ Silica Gel Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	35.9	1.0	40	-	90	75-128
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	23.07	22.8		25	92	91	72-122

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	42.0	41.9	40	3.294	97	97	71-134	0	30
Surrogate Recovery									
C9	23.3	23.0	25		93	92	78-126	1.27	30



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

WaterTrax WriteOn EDF

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1708E74

ClientCode: GESF

Excel EQulS Email HardCopy ThirdParty J-flag
 Detection Summary Dry-Weight

Report to:

Erwin O Toole
Granite Excavation
160 S.Linden Avenue Suite 100
South San Francisco, CA 94080
(650) 737-8700 FAX: 650-737-8704

Email: erwin@granitesf.com
cc/3rd Party:
PO:
ProjectNo: 1313; 2330 Webster Street

Bill to:

Jason Parsons
Granite Excavation
160 S.Linden Avenue Suite 100
South San Francisco, CA 94080
jason@granitesf.com

Requested TAT: 2 days;

Date Received: 08/30/2017

Date Logged: 08/30/2017

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	
1708E74-001	Sample 1	Soil	8/30/2017 15:30	<input type="checkbox"/>	A	A	A	A	A	A	A	A					
1708E74-002	Sample 2	Soil	8/30/2017 15:30	<input type="checkbox"/>	A	A	A	A	A	A	A	A					
1708E74-003	Sample 3	Soil	8/30/2017 15:30	<input type="checkbox"/>	A	A	A	A	A	A	A	A					

Test Legend:

1	8081PCB_S	2	8260B_S	3	8270_S	4	CAM17MS_TTLC_S
5	CARB435_400	6	G-MBTEX_S	7	TPH(DMO)WSG_S	8	
9		10		11		12	

Prepared by: Kena Ponce

The following SampIDs: 001A, 002A, 003A contain testgroup Multi RangeWSG_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: GRANITE EXCAVATION

Project: 1313; 2330 Webster Street

Work Order: 1708E74

Client Contact: Erwin O Toole

QC Level: LEVEL 2

Contact's Email: erwin@granitesf.com

Comments:

Date Logged: 8/30/2017

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut		
1708E74-001A	Sample 1	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Stainless Steel tube 2"x6"	<input type="checkbox"/>	8/30/2017 15:30	2 days		<input type="checkbox"/>			
			Asbestos, CARB 435, 400 Point			<input type="checkbox"/>						2 days	<input type="checkbox"/>
			SW6020 (CAM 17)			<input type="checkbox"/>						2 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						2 days	<input type="checkbox"/>
			SW8260B (VOCs)			<input type="checkbox"/>						2 days	<input type="checkbox"/>
			SW8081A/8082 (OC Pesticides+PCBs)			<input type="checkbox"/>						2 days	<input type="checkbox"/>
1708E74-002A	Sample 2	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Stainless Steel tube 2"x6"	<input type="checkbox"/>	8/30/2017 15:30	2 days		<input type="checkbox"/>			
			Asbestos, CARB 435, 400 Point			<input type="checkbox"/>						2 days	<input type="checkbox"/>
			SW6020 (CAM 17)			<input type="checkbox"/>						2 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						2 days	<input type="checkbox"/>
			SW8260B (VOCs)			<input type="checkbox"/>						2 days	<input type="checkbox"/>
			SW8081A/8082 (OC Pesticides+PCBs)			<input type="checkbox"/>						2 days	<input type="checkbox"/>
1708E74-003A	Sample 3	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Stainless Steel tube 2"x6"	<input type="checkbox"/>	8/30/2017 15:30	2 days		<input type="checkbox"/>			
			Asbestos, CARB 435, 400 Point			<input type="checkbox"/>						2 days	<input type="checkbox"/>
			SW6020 (CAM 17)			<input type="checkbox"/>						2 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.



WORK ORDER SUMMARY

Client Name: GRANITE EXCAVATION

Project: 1313; 2330 Webster Street

Work Order: 1708E74

Client Contact: Erwin O Toole

QC Level: LEVEL 2

Contact's Email: erwin@granitesf.com

Comments:


Date Logged: 8/30/2017

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1708E74-003A	Sample 3	Soil	SW8270C (SVOCs)	1	Stainless Steel tube 2"x6"	<input type="checkbox"/>	8/30/2017 15:30	2 days		<input type="checkbox"/>	
			SW8260B (VOCs)			<input type="checkbox"/>		2 days		<input type="checkbox"/>	
			SW8081A/8082 (OC Pesticides+PCBs)			<input type="checkbox"/>		2 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.

 <p>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</p>	CHAIN OF CUSTODY RECORD				
	Turn Around Time: 1 Day Rush	<input checked="" type="radio"/> 2 Day Rush	<input type="radio"/> 3 Day Rush	STD	Quote #
	J-Flag / MDL	ESL	Cleanup Approved	Bottle Order #	
	Delivery Format: PDF <input checked="" type="radio"/>	GeoTracker EDF	EDD	Write On (DW)	EQUS

Report To: Erwin O Toole	Bill To: Granite Excavation and Demolition Inc
--------------------------	--

Company: Granite Excavation and Demolition Inc Email: erwin@granitesf.com Alt Email: Tele: 4155311009 Project Name: 2330 Webster Street Project #:1313 Project Location: Stockpile PO # 1313 Sampler Signature: <i>Erwin O Toole</i>	Analysis Requested
--	---------------------------

SAMPLE ID Location / Field Point	Sampling		#Containers	Matrix	Preservative	CAM 17 Metals (200.8/6020)	VOC (8260B)	sVOC (8270)	TPHg,d ,mo (multi) w/ silica gel	8081 w PCB	asbestos CARB method	[Grid for Analysis Requested]																
	Date	Time																										
Sample 1	8.30.17	15.30	1	soil	7	●	●	●	●	●	●																	
Sample 2	8.30.17	15.30	1	soil	7	●	●	●	●	●	●																	
Sample 3	8.30.17	15.30	1	soil	7	●	●	●	●	●	●																	

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 email erwin@granitesf.com with any questions						
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								
Erwin O Toole Granite	8.30.17	16.50	<i>[Signature]</i>	8/30/17	11:05								

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 _____ °C Initials _____



Sample Receipt Checklist

Client Name: **Granite Excavation**
 Project Name: **1313; 2330 Webster Street**
 WorkOrder No: **1708E74** Matrix: Soil
 Carrier: Client Drop-In

Date and Time Received: **8/30/2017 16:50**
 Date Logged: **8/30/2017**
 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"/>
Sample/Temp Blank temperature	Temp:		NA <input checked="" 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; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

UCMR Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1709668

Report Created for: Terracon

1466 66th Street
Emeryville, CA 94608

Project Contact: Paul King

Project P.O.:

Project Name: R1177B45/0774; 2330 Webster Street, Oakland

Project Received: 09/15/2017

Analytical Report reviewed & approved for release on 09/19/2017 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: Terracon
Project: R1177B45/0774; 2330 Webster Street, Oakland
WorkOrder: 1709668

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
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
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: Terracon
Project: R1177B45/0774; 2330 Webster Street, Oakland
WorkOrder: 1709668

Quality Control Qualifiers

F2 LCS/LCSD recovery and/or RPD is out of acceptance criteria.
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: Terracon **WorkOrder:** 1709668
Date Received: 9/15/17 21:00 **Extraction Method:** SW3550B
Date Prepared: 9/15/17 **Analytical Method:** SW8082
Project: R1177B45/0774; 2330 Webster Street, Oakland **Unit:** mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
T1-11.0	1709668-001A	Soil	09/15/2017	GC22 09181713.D	145520

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	09/18/2017 17:08
Aroclor1221	ND	0.050	1	09/18/2017 17:08
Aroclor1232	ND	0.050	1	09/18/2017 17:08
Aroclor1242	ND	0.050	1	09/18/2017 17:08
Aroclor1248	ND	0.050	1	09/18/2017 17:08
Aroclor1254	ND	0.050	1	09/18/2017 17:08
Aroclor1260	ND	0.050	1	09/18/2017 17:08
PCBs, total	ND	0.050	1	09/18/2017 17:08

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	116	70-130	09/18/2017 17:08

Analyst(s): CK



Analytical Report

Client: Terracon
Date Received: 9/15/17 21:00
Date Prepared: 9/15/17
Project: R1177B45/0774; 2330 Webster Street, Oakland

WorkOrder: 1709668
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
T1-11.0	1709668-001A	Soil	09/15/2017	GC16 09191715.D	145580

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	09/19/2017 16:39
tert-Amyl methyl ether (TAME)	ND	0.0050	1	09/19/2017 16:39
Benzene	ND	0.0050	1	09/19/2017 16:39
Bromobenzene	ND	0.0050	1	09/19/2017 16:39
Bromochloromethane	ND	0.0050	1	09/19/2017 16:39
Bromodichloromethane	ND	0.0050	1	09/19/2017 16:39
Bromoform	ND	0.0050	1	09/19/2017 16:39
Bromomethane	ND	0.0050	1	09/19/2017 16:39
2-Butanone (MEK)	ND	0.020	1	09/19/2017 16:39
t-Butyl alcohol (TBA)	ND	0.050	1	09/19/2017 16:39
n-Butyl benzene	ND	0.0050	1	09/19/2017 16:39
sec-Butyl benzene	ND	0.0050	1	09/19/2017 16:39
tert-Butyl benzene	ND	0.0050	1	09/19/2017 16:39
Carbon Disulfide	ND	0.0050	1	09/19/2017 16:39
Carbon Tetrachloride	ND	0.0050	1	09/19/2017 16:39
Chlorobenzene	ND	0.0050	1	09/19/2017 16:39
Chloroethane	ND	0.0050	1	09/19/2017 16:39
Chloroform	ND	0.0050	1	09/19/2017 16:39
Chloromethane	ND	0.0050	1	09/19/2017 16:39
2-Chlorotoluene	ND	0.0050	1	09/19/2017 16:39
4-Chlorotoluene	ND	0.0050	1	09/19/2017 16:39
Dibromochloromethane	ND	0.0050	1	09/19/2017 16:39
1,2-Dibromo-3-chloropropane	ND	0.0040	1	09/19/2017 16:39
1,2-Dibromoethane (EDB)	ND	0.0040	1	09/19/2017 16:39
Dibromomethane	ND	0.0050	1	09/19/2017 16:39
1,2-Dichlorobenzene	ND	0.0050	1	09/19/2017 16:39
1,3-Dichlorobenzene	ND	0.0050	1	09/19/2017 16:39
1,4-Dichlorobenzene	ND	0.0050	1	09/19/2017 16:39
Dichlorodifluoromethane	ND	0.0050	1	09/19/2017 16:39
1,1-Dichloroethane	ND	0.0050	1	09/19/2017 16:39
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	09/19/2017 16:39
1,1-Dichloroethene	ND	0.0050	1	09/19/2017 16:39
cis-1,2-Dichloroethene	ND	0.0050	1	09/19/2017 16:39
trans-1,2-Dichloroethene	ND	0.0050	1	09/19/2017 16:39
1,2-Dichloropropane	ND	0.0050	1	09/19/2017 16:39
1,3-Dichloropropane	ND	0.0050	1	09/19/2017 16:39
2,2-Dichloropropane	ND	0.0050	1	09/19/2017 16:39

(Cont.)



Analytical Report

Client: Terracon
Date Received: 9/15/17 21:00
Date Prepared: 9/15/17
Project: R1177B45/0774; 2330 Webster Street, Oakland

WorkOrder: 1709668
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
T1-11.0	1709668-001A	Soil	09/15/2017	GC16 09191715.D	145580

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	09/19/2017 16:39
cis-1,3-Dichloropropene	ND	0.0050	1	09/19/2017 16:39
trans-1,3-Dichloropropene	ND	0.0050	1	09/19/2017 16:39
Diisopropyl ether (DIPE)	ND	0.0050	1	09/19/2017 16:39
Ethylbenzene	ND	0.0050	1	09/19/2017 16:39
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	09/19/2017 16:39
Freon 113	ND	0.0050	1	09/19/2017 16:39
Hexachlorobutadiene	ND	0.0050	1	09/19/2017 16:39
Hexachloroethane	ND	0.0050	1	09/19/2017 16:39
2-Hexanone	ND	0.0050	1	09/19/2017 16:39
Isopropylbenzene	ND	0.0050	1	09/19/2017 16:39
4-Isopropyl toluene	ND	0.0050	1	09/19/2017 16:39
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	09/19/2017 16:39
Methylene chloride	ND	0.0050	1	09/19/2017 16:39
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	09/19/2017 16:39
Naphthalene	ND	0.0050	1	09/19/2017 16:39
n-Propyl benzene	ND	0.0050	1	09/19/2017 16:39
Styrene	ND	0.0050	1	09/19/2017 16:39
1,1,1,2-Tetrachloroethane	ND	0.0050	1	09/19/2017 16:39
1,1,2,2-Tetrachloroethane	ND	0.0050	1	09/19/2017 16:39
Tetrachloroethene	ND	0.0050	1	09/19/2017 16:39
Toluene	ND	0.0050	1	09/19/2017 16:39
1,2,3-Trichlorobenzene	ND	0.0050	1	09/19/2017 16:39
1,2,4-Trichlorobenzene	ND	0.0050	1	09/19/2017 16:39
1,1,1-Trichloroethane	ND	0.0050	1	09/19/2017 16:39
1,1,2-Trichloroethane	ND	0.0050	1	09/19/2017 16:39
Trichloroethene	ND	0.0050	1	09/19/2017 16:39
Trichlorofluoromethane	ND	0.0050	1	09/19/2017 16:39
1,2,3-Trichloropropane	ND	0.0050	1	09/19/2017 16:39
1,2,4-Trimethylbenzene	ND	0.0050	1	09/19/2017 16:39
1,3,5-Trimethylbenzene	ND	0.0050	1	09/19/2017 16:39
Vinyl Chloride	ND	0.0050	1	09/19/2017 16:39
Xylenes, Total	ND	0.0050	1	09/19/2017 16:39

(Cont.)



Analytical Report

Client: Terracon
Date Received: 9/15/17 21:00
Date Prepared: 9/15/17
Project: R1177B45/0774; 2330 Webster Street, Oakland

WorkOrder: 1709668
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
T1-11.0	1709668-001A	Soil	09/15/2017	GC16 09191715.D	145580

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	
Dibromofluoromethane	119	82-136		09/19/2017 16:39
Toluene-d8	118	92-139		09/19/2017 16:39
4-BFB	106	82-135		09/19/2017 16:39
Benzene-d6	109	55-122		09/19/2017 16:39
Ethylbenzene-d10	113	58-141		09/19/2017 16:39
1,2-DCB-d4	89	51-107		09/19/2017 16:39

Analyst(s): AK



Analytical Report

Client: Terracon
Date Received: 9/15/17 21:00
Date Prepared: 9/16/17
Project: R1177B45/0774; 2330 Webster Street, Oakland

WorkOrder: 1709668
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
T1-11.0	1709668-001A	Soil	09/15/2017	GC17 09181712.D	145518

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.25	1	09/18/2017 14:57
Acenaphthylene	ND	0.25	1	09/18/2017 14:57
Acetochlor	ND	0.25	1	09/18/2017 14:57
Anthracene	ND	0.25	1	09/18/2017 14:57
Benzidine	ND	1.3	1	09/18/2017 14:57
Benzo (a) anthracene	ND	0.25	1	09/18/2017 14:57
Benzo (a) pyrene	ND	0.25	1	09/18/2017 14:57
Benzo (b) fluoranthene	ND	0.25	1	09/18/2017 14:57
Benzo (g,h,i) perylene	ND	0.25	1	09/18/2017 14:57
Benzo (k) fluoranthene	ND	0.25	1	09/18/2017 14:57
Benzyl Alcohol	ND	1.3	1	09/18/2017 14:57
1,1-Biphenyl	ND	0.25	1	09/18/2017 14:57
Bis (2-chloroethoxy) Methane	ND	0.25	1	09/18/2017 14:57
Bis (2-chloroethyl) Ether	ND	0.25	1	09/18/2017 14:57
Bis (2-chloroisopropyl) Ether	ND	0.25	1	09/18/2017 14:57
Bis (2-ethylhexyl) Adipate	ND	0.25	1	09/18/2017 14:57
Bis (2-ethylhexyl) Phthalate	ND	0.25	1	09/18/2017 14:57
4-Bromophenyl Phenyl Ether	ND	0.25	1	09/18/2017 14:57
Butylbenzyl Phthalate	ND	0.25	1	09/18/2017 14:57
4-Chloroaniline	ND	0.50	1	09/18/2017 14:57
4-Chloro-3-methylphenol	ND	0.25	1	09/18/2017 14:57
2-Chloronaphthalene	ND	0.25	1	09/18/2017 14:57
2-Chlorophenol	ND	0.25	1	09/18/2017 14:57
4-Chlorophenyl Phenyl Ether	ND	0.25	1	09/18/2017 14:57
Chrysene	ND	0.25	1	09/18/2017 14:57
Dibenzo (a,h) anthracene	ND	0.25	1	09/18/2017 14:57
Dibenzofuran	ND	0.25	1	09/18/2017 14:57
Di-n-butyl Phthalate	ND	0.25	1	09/18/2017 14:57
1,2-Dichlorobenzene	ND	0.25	1	09/18/2017 14:57
1,3-Dichlorobenzene	ND	0.25	1	09/18/2017 14:57
1,4-Dichlorobenzene	ND	0.25	1	09/18/2017 14:57
3,3-Dichlorobenzidine	ND	0.50	1	09/18/2017 14:57
2,4-Dichlorophenol	ND	0.25	1	09/18/2017 14:57
Diethyl Phthalate	ND	0.25	1	09/18/2017 14:57
2,4-Dimethylphenol	ND	0.25	1	09/18/2017 14:57
Dimethyl Phthalate	ND	0.25	1	09/18/2017 14:57
4,6-Dinitro-2-methylphenol	ND	1.3	1	09/18/2017 14:57

(Cont.)



Analytical Report

Client: Terracon
Date Received: 9/15/17 21:00
Date Prepared: 9/16/17
Project: R1177B45/0774; 2330 Webster Street, Oakland

WorkOrder: 1709668
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
T1-11.0	1709668-001A	Soil	09/15/2017	GC17 09181712.D	145518

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	6.3	1	09/18/2017 14:57
2,4-Dinitrotoluene	ND	0.25	1	09/18/2017 14:57
2,6-Dinitrotoluene	ND	0.25	1	09/18/2017 14:57
Di-n-octyl Phthalate	ND	0.50	1	09/18/2017 14:57
1,2-Diphenylhydrazine	ND	0.25	1	09/18/2017 14:57
Fluoranthene	ND	0.25	1	09/18/2017 14:57
Fluorene	ND	0.25	1	09/18/2017 14:57
Hexachlorobenzene	ND	0.25	1	09/18/2017 14:57
Hexachlorobutadiene	ND	0.25	1	09/18/2017 14:57
Hexachlorocyclopentadiene	ND	1.3	1	09/18/2017 14:57
Hexachloroethane	ND	0.25	1	09/18/2017 14:57
Indeno (1,2,3-cd) pyrene	ND	0.25	1	09/18/2017 14:57
Isophorone	ND	0.25	1	09/18/2017 14:57
2-Methylnaphthalene	ND	0.25	1	09/18/2017 14:57
2-Methylphenol (o-Cresol)	ND	0.25	1	09/18/2017 14:57
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	09/18/2017 14:57
Naphthalene	ND	0.25	1	09/18/2017 14:57
2-Nitroaniline	ND	1.3	1	09/18/2017 14:57
3-Nitroaniline	ND	1.3	1	09/18/2017 14:57
4-Nitroaniline	ND	1.3	1	09/18/2017 14:57
Nitrobenzene	ND	0.25	1	09/18/2017 14:57
2-Nitrophenol	ND	1.3	1	09/18/2017 14:57
4-Nitrophenol	ND	1.3	1	09/18/2017 14:57
N-Nitrosodiphenylamine	ND	0.25	1	09/18/2017 14:57
N-Nitrosodi-n-propylamine	ND	0.25	1	09/18/2017 14:57
Pentachlorophenol	ND	1.3	1	09/18/2017 14:57
Phenanthrene	ND	0.25	1	09/18/2017 14:57
Phenol	ND	0.25	1	09/18/2017 14:57
Pyrene	ND	0.25	1	09/18/2017 14:57
Pyridine	ND	0.25	1	09/18/2017 14:57
1,2,4-Trichlorobenzene	ND	0.25	1	09/18/2017 14:57
2,4,5-Trichlorophenol	ND	0.25	1	09/18/2017 14:57
2,4,6-Trichlorophenol	ND	0.25	1	09/18/2017 14:57

(Cont.)



Analytical Report

Client: Terracon
Date Received: 9/15/17 21:00
Date Prepared: 9/16/17

WorkOrder: 1709668
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Project: R1177B45/0774; 2330 Webster Street, Oakland

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
T1-11.0	1709668-001A	Soil	09/15/2017	GC17 09181712.D	145518

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	
2-Fluorophenol	100		30-130	09/18/2017 14:57
Phenol-d5	93		30-130	09/18/2017 14:57
Nitrobenzene-d5	95		30-130	09/18/2017 14:57
2-Fluorobiphenyl	83		30-130	09/18/2017 14:57
2,4,6-Tribromophenol	73		16-130	09/18/2017 14:57
4-Terphenyl-d14	92		30-130	09/18/2017 14:57

Analyst(s): REB



Analytical Report

Client: Terracon
Date Received: 9/15/17 21:00
Date Prepared: 9/15/17
Project: R1177B45/0774; 2330 Webster Street, Oakland

WorkOrder: 1709668
Extraction Method: SW5030B
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
T1-11.0	1709668-001A	Soil	09/15/2017	GC19 09181726.D	145564

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	09/18/2017 23:20
MTBE	---	0.050	1	09/18/2017 23:20
Benzene	---	0.0050	1	09/18/2017 23:20
Toluene	---	0.0050	1	09/18/2017 23:20
Ethylbenzene	---	0.0050	1	09/18/2017 23:20
Xylenes	---	0.015	1	09/18/2017 23:20

Surrogates	REC (%)	Limits	
2-Fluorotoluene	78	62-126	09/18/2017 23:20

Analyst(s): IA



Analytical Report

Client: Terracon
Date Received: 9/15/17 21:00
Date Prepared: 9/15/17
Project: R1177B45/0774; 2330 Webster Street, Oakland

WorkOrder: 1709668
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
T1-11.0	1709668-001A	Soil	09/15/2017	ICP-MS3 275SMPL.D	145576

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	09/19/2017 14:01
Chromium	48	0.50	1	09/19/2017 14:01
Lead	4.8	0.50	1	09/19/2017 14:01
Nickel	62	0.50	1	09/19/2017 14:01
Zinc	35	5.0	1	09/19/2017 14:01

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	101	70-130	09/19/2017 14:01

Analyst(s): MIG



Analytical Report

Client: Terracon **WorkOrder:** 1709668
Date Received: 9/15/17 21:00 **Extraction Method:** SW3550B
Date Prepared: 9/15/17 **Analytical Method:** SW8015B
Project: R1177B45/0774; 2330 Webster Street, Oakland **Unit:** mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
T1-11.0	1709668-001A	Soil	09/15/2017	GC11A 09181722.D	145575

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	09/18/2017 21:18
TPH-Motor Oil (C18-C36)	ND	5.0	1	09/18/2017 21:18

Surrogates	REC (%)	Limits	
C9	92	78-126	09/18/2017 21:18

Analyst(s): TD



Quality Control Report

Client:	Terracon	WorkOrder:	1709668
Date Prepared:	9/15/17	BatchID:	145520
Date Analyzed:	9/15/17 - 9/16/17	Extraction Method:	SW3550B
Instrument:	GC22, GC40	Analytical Method:	SW8082
Matrix:	Soil	Unit:	mg/kg
Project:	R1177B45/0774; 2330 Webster Street, Oakland	Sample ID:	MB/LCS/LCSD-145520 1708B64-002AMS/MSD

QC Summary Report for SW8082

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Aroclor1016	ND	0.050	-	-	-
Aroclor1221	ND	0.050	-	-	-
Aroclor1232	ND	0.050	-	-	-
Aroclor1242	ND	0.050	-	-	-
Aroclor1248	ND	0.050	-	-	-
Aroclor1254	ND	0.050	-	-	-
Aroclor1260	ND	0.050	-	-	-
PCBs, total	ND	0.050	-	-	-

Surrogate Recovery

Decachlorobiphenyl	0.05049	0.050	101	70-130
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Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aroclor1016	0.138	0.146	0.15	92	97	70-130	5.65	20
Aroclor1260	0.138	0.144	0.15	92	96	70-130	4.14	20

Surrogate Recovery

Decachlorobiphenyl	0.0475	0.0484	0.050	95	97	70-130	1.81	20
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aroclor1016	0.146	0.147	0.15	ND	98	98	70-130	0	20
Aroclor1260	0.152	0.152	0.15	ND	101	101	70-130	0	20

Surrogate Recovery

Decachlorobiphenyl	0.0518	0.0498	0.050	104	100	70-130	3.94	20
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Quality Control Report

Client:	Terracon	WorkOrder:	1709668
Date Prepared:	9/15/17	BatchID:	145580
Date Analyzed:	9/16/17	Extraction Method:	SW5030B
Instrument:	GC28	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/kg
Project:	R1177B45/0774; 2330 Webster Street, Oakland	Sample ID:	MB/LCS-145580

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	0.770	0.10	1	-	77	48-156
tert-Amyl methyl ether (TAME)	ND	0.0368	0.0050	0.050	-	74	56-115
Benzene	ND	0.0460	0.0050	0.050	-	92	63-131
Bromobenzene	ND	0.0485	0.0050	0.050	-	97	66-127
Bromochloromethane	ND	0.0420	0.0050	0.050	-	84	64-124
Bromodichloromethane	ND	0.0470	0.0050	0.050	-	94	64-120
Bromoform	ND	0.0357	0.0050	0.050	-	71	48-92
Bromomethane	ND	0.0489	0.0050	0.050	-	98	25-163
2-Butanone (MEK)	ND	0.137	0.020	0.20	-	68	51-133
t-Butyl alcohol (TBA)	ND	0.129	0.050	0.20	-	64	52-129
n-Butyl benzene	ND	0.0651	0.0050	0.050	-	130	83-200
sec-Butyl benzene	ND	0.0690	0.0050	0.050	-	138	81-199
tert-Butyl benzene	ND	0.0637	0.0050	0.050	-	127	79-178
Carbon Disulfide	ND	0.0456	0.0050	0.050	-	91	64-136
Carbon Tetrachloride	ND	0.0530	0.0050	0.050	-	106	66-140
Chlorobenzene	ND	0.0470	0.0050	0.050	-	94	73-116
Chloroethane	ND	0.0399	0.0050	0.050	-	80	35-147
Chloroform	ND	0.0463	0.0050	0.050	-	93	65-130
Chloromethane	ND	0.0407	0.0050	0.050	-	81	30-137
2-Chlorotoluene	ND	0.0559	0.0050	0.050	-	112	75-152
4-Chlorotoluene	ND	0.0543	0.0050	0.050	-	109	71-148
Dibromochloromethane	ND	0.0391	0.0050	0.050	-	78	61-106
1,2-Dibromo-3-chloropropane	ND	0.0121	0.0040	0.020	-	60	36-120
1,2-Dibromoethane (EDB)	ND	0.0410	0.0040	0.050	-	82	67-118
Dibromomethane	ND	0.0404	0.0050	0.050	-	81	61-116
1,2-Dichlorobenzene	ND	0.0401	0.0050	0.050	-	80	59-106
1,3-Dichlorobenzene	ND	0.0509	0.0050	0.050	-	102	75-129
1,4-Dichlorobenzene	ND	0.0481	0.0050	0.050	-	96	66-127
Dichlorodifluoromethane	ND	0.0249	0.0050	0.050	-	50	13-74
1,1-Dichloroethane	ND	0.0456	0.0050	0.050	-	91	65-134
1,2-Dichloroethane (1,2-DCA)	ND	0.0411	0.0040	0.050	-	82	57-131
1,1-Dichloroethene	ND	0.0440	0.0050	0.050	-	88	62-127
cis-1,2-Dichloroethene	ND	0.0402	0.0050	0.050	-	80	66-130
trans-1,2-Dichloroethene	ND	0.0518	0.0050	0.050	-	104	60-131
1,2-Dichloropropane	ND	0.0441	0.0050	0.050	-	88	63-127
1,3-Dichloropropane	ND	0.0407	0.0050	0.050	-	81	68-124
2,2-Dichloropropane	ND	0.0557	0.0050	0.050	-	111	63-150

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Quality Control Report

Client:	Terracon	WorkOrder:	1709668
Date Prepared:	9/15/17	BatchID:	145580
Date Analyzed:	9/16/17	Extraction Method:	SW5030B
Instrument:	GC28	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/kg
Project:	R1177B45/0774; 2330 Webster Street, Oakland	Sample ID:	MB/LCS-145580

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	0.0508	0.0050	0.050	-	102	67-134
cis-1,3-Dichloropropene	ND	0.0462	0.0050	0.050	-	92	65-138
trans-1,3-Dichloropropene	ND	0.0446	0.0050	0.050	-	89	66-124
Diisopropyl ether (DIPE)	ND	0.0411	0.0050	0.050	-	82	58-129
Ethylbenzene	ND	0.0537	0.0050	0.050	-	107	73-145
Ethyl tert-butyl ether (ETBE)	ND	0.0404	0.0050	0.050	-	81	62-125
Freon 113	ND	0.0401	0.0050	0.050	-	80	55-116
Hexachlorobutadiene	ND	0.0736	0.0050	0.050	-	147	75-178
Hexachloroethane	ND	0.0599	0.0050	0.050	-	120	75-152
2-Hexanone	ND	0.0277	0.0050	0.050	-	55	41-113
Isopropylbenzene	ND	0.0628	0.0050	0.050	-	126	67-172
4-Isopropyl toluene	ND	0.0654	0.0050	0.050	-	131	88-171
Methyl-t-butyl ether (MTBE)	ND	0.0379	0.0050	0.050	-	76	58-122
Methylene chloride	ND	0.0444	0.0050	0.050	-	89	57-140
4-Methyl-2-pentanone (MIBK)	ND	0.0315	0.0050	0.050	-	63	42-117
Naphthalene	ND	0.0195	0.0050	0.050	-	39	29-65
n-Propyl benzene	ND	0.0665	0.0050	0.050	-	133	85-174
Styrene	ND	0.0500	0.0050	0.050	-	100	63-126
1,1,1,2-Tetrachloroethane	ND	0.0511	0.0050	0.050	-	102	68-131
1,1,2,2-Tetrachloroethane	ND	0.0340	0.0050	0.050	-	68	45-121
Tetrachloroethene	ND	0.0565	0.0050	0.050	-	113	65-150
Toluene	ND	0.0520	0.0050	0.050	-	104	72-135
1,2,3-Trichlorobenzene	ND	0.0282	0.0050	0.050	-	56	35-80
1,2,4-Trichlorobenzene	ND	0.0382	0.0050	0.050	-	76	45-103
1,1,1-Trichloroethane	ND	0.0499	0.0050	0.050	-	100	67-137
1,1,2-Trichloroethane	ND	0.0405	0.0050	0.050	-	81	67-117
Trichloroethene	ND	0.0494	0.0050	0.050	-	99	62-135
Trichlorofluoromethane	ND	0.0427	0.0050	0.050	-	85	56-124
1,2,3-Trichloropropane	ND	0.0399	0.0050	0.050	-	80	58-133
1,2,4-Trimethylbenzene	ND	0.0611	0.0050	0.050	-	122	78-161
1,3,5-Trimethylbenzene	ND	0.0627	0.0050	0.050	-	125	85-170
Vinyl Chloride	ND	0.0409	0.0050	0.050	-	82	32-142
Xylenes, Total	ND	0.160	0.0050	0.15	-	106	70-137

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Quality Control Report

Client:	Terracon	WorkOrder:	1709668
Date Prepared:	9/15/17	BatchID:	145580
Date Analyzed:	9/16/17	Extraction Method:	SW5030B
Instrument:	GC28	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/kg
Project:	R1177B45/0774; 2330 Webster Street, Oakland	Sample ID:	MB/LCS-145580

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.128	0.127		0.12	102	102	87-127
Toluene-d8	0.146	0.146		0.12	117	117	93-141
4-BFB	0.01148	0.0126		0.012	92	101	84-137
Benzene-d6	0.1013	0.103		0.10	101	103	67-131
Ethylbenzene-d10	0.1143	0.117		0.10	114	117	78-153
1,2-DCB-d4	0.08426	0.0882		0.10	84	88	63-109



Quality Control Report

Client:	Terracon	WorkOrder:	1709668
Date Prepared:	9/15/17	BatchID:	145518
Date Analyzed:	9/15/17	Extraction Method:	SW3550B
Instrument:	GC21	Analytical Method:	SW8270C
Matrix:	Soil	Unit:	mg/Kg
Project:	R1177B45/0774; 2330 Webster Street, Oakland	Sample ID:	MB/LCS-145518 1709600-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	2.61	0.25	5	-	52	46-118
Acenaphthylene	ND	2.97	0.25	5	-	59	43-122
Acetochlor	ND	-	0.25	-	-	-	-
Anthracene	ND	2.68	0.25	5	-	54	47-125
Benzidine	ND	0.890	1.3	5	-	18	13-83
Benzo (a) anthracene	ND	2.96	0.25	5	-	59	53-117
Benzo (a) pyrene	ND	3.69	0.25	5	-	74	53-138
Benzo (b) fluoranthene	ND	3.62	0.25	5	-	72	48-125
Benzo (g,h,i) perylene	ND	3.56	0.25	5	-	71	51-146
Benzo (k) fluoranthene	ND	3.13	0.25	5	-	63	53-124
Benzyl Alcohol	ND	3.23	1.3	5	-	65	51-105
1,1-Biphenyl	ND	-	0.25	-	-	-	-
Bis (2-chloroethoxy) Methane	ND	2.61	0.25	5	-	52	48-115
Bis (2-chloroethyl) Ether	ND	2.71	0.25	5	-	54	51-105
Bis (2-chloroisopropyl) Ether	ND	3.16	0.25	5	-	63, F2	85-119
Bis (2-ethylhexyl) Adipate	ND	3.04	0.25	5	-	61	46-117
Bis (2-ethylhexyl) Phthalate	ND	2.80	0.25	5	-	56	50-124
4-Bromophenyl Phenyl Ether	ND	2.86	0.25	5	-	57, F2	70-112
Butylbenzyl Phthalate	ND	3.19	0.25	5	-	64	55-127
4-Chloroaniline	ND	1.69	0.50	5	-	34	18-77
4-Chloro-3-methylphenol	ND	3.22	0.25	5	-	64	49-123
2-Chloronaphthalene	ND	2.60	0.25	5	-	52	44-109
2-Chlorophenol	ND	3.06	0.25	5	-	61	55-116
4-Chlorophenyl Phenyl Ether	ND	2.80	0.25	5	-	56	45-122
Chrysene	ND	2.84	0.25	5	-	57	54-116
Dibenzo (a,h) anthracene	ND	3.62	0.25	5	-	72	52-141
Dibenzofuran	ND	2.72	0.25	5	-	54	46-117
Di-n-butyl Phthalate	ND	2.68	0.25	5	-	54	45-126
1,2-Dichlorobenzene	ND	2.99	0.25	5	-	60	55-105
1,3-Dichlorobenzene	ND	2.90	0.25	5	-	58	51-104
1,4-Dichlorobenzene	ND	3.36	0.25	5	-	67	50-102
3,3-Dichlorobenzidine	ND	2.28	0.50	5	-	46	20-84
2,4-Dichlorophenol	ND	3.46	0.25	5	-	69	54-124
Diethyl Phthalate	ND	2.71	0.25	5	-	54	42-118
2,4-Dimethylphenol	ND	3.52	0.25	5	-	70	53-120
Dimethyl Phthalate	ND	2.76	0.25	5	-	55	45-118
4,6-Dinitro-2-methylphenol	ND	3.33	1.3	5	-	67	32-126

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 QA/QC Officer



Quality Control Report

Client:	Terracon	WorkOrder:	1709668
Date Prepared:	9/15/17	BatchID:	145518
Date Analyzed:	9/15/17	Extraction Method:	SW3550B
Instrument:	GC21	Analytical Method:	SW8270C
Matrix:	Soil	Unit:	mg/Kg
Project:	R1177B45/0774; 2330 Webster Street, Oakland	Sample ID:	MB/LCS-145518 1709600-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
2,4-Dinitrophenol	ND	3.57	6.3	5	-	71	20-130
2,4-Dinitrotoluene	ND	3.09	0.25	5	-	62	47-117
2,6-Dinitrotoluene	ND	3.17	0.25	5	-	63	48-121
Di-n-octyl Phthalate	ND	3.20	0.50	5	-	64	40-150
1,2-Diphenylhydrazine	ND	2.53	0.25	5	-	51, F2	88-117
Fluoranthene	ND	2.83	0.25	5	-	57	45-126
Fluorene	ND	2.69	0.25	5	-	54	43-118
Hexachlorobenzene	ND	2.45	0.25	5	-	49	47-130
Hexachlorobutadiene	ND	2.67	0.25	5	-	53	50-121
Hexachlorocyclopentadiene	ND	2.26	1.3	5	-	45	30-89
Hexachloroethane	ND	2.87	0.25	5	-	57	50-106
Indeno (1,2,3-cd) pyrene	ND	3.48	0.25	5	-	70	51-138
Isophorone	ND	2.30	0.25	5	-	46	38-92
2-Methylnaphthalene	ND	3.13	0.25	5	-	63	51-121
2-Methylphenol (o-Cresol)	ND	3.05	0.25	5	-	61	48-114
3 & 4-Methylphenol (m,p-Cresol)	ND	3.02	0.25	5	-	60	30-130
Naphthalene	ND	2.68	0.25	5	-	53	50-113
2-Nitroaniline	ND	3.00	1.3	5	-	60	45-115
3-Nitroaniline	ND	2.71	1.3	5	-	54	31-93
4-Nitroaniline	ND	3.16	1.3	5	-	63	41-108
Nitrobenzene	ND	2.86	0.25	5	-	57	49-122
2-Nitrophenol	ND	3.62	1.3	5	-	72	54-121
4-Nitrophenol	ND	2.55	1.3	5	-	51	40-102
N-Nitrosodiphenylamine	ND	-	0.25	-	-	-	-
N-Nitrosodi-n-propylamine	ND	2.83	0.25	5	-	57	47-108
Pentachlorophenol	ND	3.80	1.3	5	-	76	39-134
Phenanthrene	ND	2.78	0.25	5	-	56	49-123
Phenol	ND	2.76	0.25	5	-	55	49-107
Pyrene	ND	2.86	0.25	5	-	57	55-124
Pyridine	ND	4.12	0.25	5	-	82	70-130
1,2,4-Trichlorobenzene	ND	3.05	0.25	5	-	61	51-121
2,4,5-Trichlorophenol	ND	3.24	0.25	5	-	65	45-126
2,4,6-Trichlorophenol	ND	3.05	0.25	5	-	61	46-128

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 QA/QC Officer



Quality Control Report

Client:	Terracon	WorkOrder:	1709668
Date Prepared:	9/15/17	BatchID:	145518
Date Analyzed:	9/15/17	Extraction Method:	SW3550B
Instrument:	GC21	Analytical Method:	SW8270C
Matrix:	Soil	Unit:	mg/Kg
Project:	R1177B45/0774; 2330 Webster Street, Oakland	Sample ID:	MB/LCS-145518 1709600-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
2-Fluorophenol	3.03	3.48		5	61	69	47-125
Phenol-d5	2.832	3.25		5	57	65	45-117
Nitrobenzene-d5	2.635	3.08		5	53	62	39-121
2-Fluorobiphenyl	2.536	2.95		5	51	59	35-120
2,4,6-Tribromophenol	2.552	2.94		5	51	59	32-111
4-Terphenyl-d14	2.615	3.14		5	52	63	32-128



Quality Control Report

Client:	Terracon	WorkOrder:	1709668
Date Prepared:	9/15/17	BatchID:	145518
Date Analyzed:	9/15/17	Extraction Method:	SW3550B
Instrument:	GC21	Analytical Method:	SW8270C
Matrix:	Soil	Unit:	mg/Kg
Project:	R1177B45/0774; 2330 Webster Street, Oakland	Sample ID:	MB/LCS-145518 1709600-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acenaphthene	NR	NR		ND<4	NR	NR	-	NR	-
Acenaphthylene	NR	NR		ND<4	NR	NR	-	NR	-
Anthracene	NR	NR		ND<4	NR	NR	-	NR	-
Benzidine	NR	NR		ND<21	NR	NR	-	NR	-
Benzo (a) anthracene	NR	NR		ND<4	NR	NR	-	NR	-
Benzo (a) pyrene	NR	NR		ND<4	NR	NR	-	NR	-
Benzo (b) fluoranthene	NR	NR		ND<4	NR	NR	-	NR	-
Benzo (g,h,i) perylene	NR	NR		ND<4	NR	NR	-	NR	-
Benzo (k) fluoranthene	NR	NR		ND<4	NR	NR	-	NR	-
Benzyl Alcohol	NR	NR		ND<21	NR	NR	-	NR	-
Bis (2-chloroethoxy) Methane	NR	NR		ND<4	NR	NR	-	NR	-
Bis (2-chloroethyl) Ether	NR	NR		ND<4	NR	NR	-	NR	-
Bis (2-chloroisopropyl) Ether	NR	NR		ND<4	NR	NR	-	NR	-
Bis (2-ethylhexyl) Adipate	NR	NR		ND<4	NR	NR	-	NR	-
Bis (2-ethylhexyl) Phthalate	NR	NR		16	NR	NR	-	NR	-
4-Bromophenyl Phenyl Ether	NR	NR		ND<4	NR	NR	-	NR	-
Butylbenzyl Phthalate	NR	NR		ND<4	NR	NR	-	NR	-
4-Chloroaniline	NR	NR		ND<8	NR	NR	-	NR	-
4-Chloro-3-methylphenol	NR	NR		ND<4	NR	NR	-	NR	-
2-Chloronaphthalene	NR	NR		ND<4	NR	NR	-	NR	-
2-Chlorophenol	NR	NR		ND<4	NR	NR	-	NR	-
4-Chlorophenyl Phenyl Ether	NR	NR		ND<4	NR	NR	-	NR	-
Chrysene	NR	NR		ND<4	NR	NR	-	NR	-
Dibenzo (a,h) anthracene	NR	NR		ND<4	NR	NR	-	NR	-
Dibenzofuran	NR	NR		ND<4	NR	NR	-	NR	-
Di-n-butyl Phthalate	NR	NR		ND<4	NR	NR	-	NR	-
1,2-Dichlorobenzene	NR	NR		ND<4	NR	NR	-	NR	-
1,3-Dichlorobenzene	NR	NR		ND<4	NR	NR	-	NR	-
1,4-Dichlorobenzene	NR	NR		ND<4	NR	NR	-	NR	-
3,3-Dichlorobenzidine	NR	NR		ND<8	NR	NR	-	NR	-
2,4-Dichlorophenol	NR	NR		ND<4	NR	NR	-	NR	-
Diethyl Phthalate	NR	NR		ND<4	NR	NR	-	NR	-
2,4-Dimethylphenol	NR	NR		ND<4	NR	NR	-	NR	-
Dimethyl Phthalate	NR	NR		ND<4	NR	NR	-	NR	-
4,6-Dinitro-2-methylphenol	NR	NR		ND<21	NR	NR	-	NR	-
2,4-Dinitrophenol	NR	NR		ND<100	NR	NR	-	NR	-
2,4-Dinitrotoluene	NR	NR		ND<4	NR	NR	-	NR	-

(Cont.)

NELAP 4033ORELAP

 QA/QC Officer



Quality Control Report

Client:	Terracon	WorkOrder:	1709668
Date Prepared:	9/15/17	BatchID:	145518
Date Analyzed:	9/15/17	Extraction Method:	SW3550B
Instrument:	GC21	Analytical Method:	SW8270C
Matrix:	Soil	Unit:	mg/Kg
Project:	R1177B45/0774; 2330 Webster Street, Oakland	Sample ID:	MB/LCS-145518 1709600-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
2,6-Dinitrotoluene	NR	NR		ND<4	NR	NR	-	NR	-
Di-n-octyl Phthalate	NR	NR		ND<8	NR	NR	-	NR	-
1,2-Diphenylhydrazine	NR	NR		ND<4	NR	NR	-	NR	-
Fluoranthene	NR	NR		ND<4	NR	NR	-	NR	-
Fluorene	NR	NR		ND<4	NR	NR	-	NR	-
Hexachlorobenzene	NR	NR		ND<4	NR	NR	-	NR	-
Hexachlorobutadiene	NR	NR		ND<4	NR	NR	-	NR	-
Hexachlorocyclopentadiene	NR	NR		ND<21	NR	NR	-	NR	-
Hexachloroethane	NR	NR		ND<4	NR	NR	-	NR	-
Indeno (1,2,3-cd) pyrene	NR	NR		ND<4	NR	NR	-	NR	-
Isophorone	NR	NR		ND<4	NR	NR	-	NR	-
2-Methylnaphthalene	NR	NR		ND<4	NR	NR	-	NR	-
2-Methylphenol (o-Cresol)	NR	NR		ND<4	NR	NR	-	NR	-
3 & 4-Methylphenol (m,p-Cresol)	NR	NR		ND<4	NR	NR	-	NR	-
Naphthalene	NR	NR		ND<4	NR	NR	-	NR	-
2-Nitroaniline	NR	NR		ND<21	NR	NR	-	NR	-
3-Nitroaniline	NR	NR		ND<21	NR	NR	-	NR	-
4-Nitroaniline	NR	NR		ND<21	NR	NR	-	NR	-
Nitrobenzene	NR	NR		ND<4	NR	NR	-	NR	-
2-Nitrophenol	NR	NR		ND<21	NR	NR	-	NR	-
4-Nitrophenol	NR	NR		ND<21	NR	NR	-	NR	-
N-Nitrosodi-n-propylamine	NR	NR		ND<4	NR	NR	-	NR	-
Pentachlorophenol	NR	NR		ND<21	NR	NR	-	NR	-
Phenanthrene	NR	NR		ND<4	NR	NR	-	NR	-
Phenol	NR	NR		ND<4	NR	NR	-	NR	-
Pyrene	NR	NR		ND<4	NR	NR	-	NR	-
Pyridine	NR	NR		ND<4	NR	NR	-	NR	-
1,2,4-Trichlorobenzene	NR	NR		ND<4	NR	NR	-	NR	-
2,4,5-Trichlorophenol	NR	NR		ND<4	NR	NR	-	NR	-
2,4,6-Trichlorophenol	NR	NR		ND<4	NR	NR	-	NR	-



Quality Control Report

Client:	Terracon	WorkOrder:	1709668
Date Prepared:	9/15/17	BatchID:	145518
Date Analyzed:	9/15/17	Extraction Method:	SW3550B
Instrument:	GC21	Analytical Method:	SW8270C
Matrix:	Soil	Unit:	mg/Kg
Project:	R1177B45/0774; 2330 Webster Street, Oakland	Sample ID:	MB/LCS-145518 1709600-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Surrogate Recovery									
2-Fluorophenol	NR	NR			NR	NR	-	NR	-
Phenol-d5	NR	NR			NR	NR	-	NR	-
Nitrobenzene-d5	NR	NR			NR	NR	-	NR	-
2-Fluorobiphenyl	NR	NR			NR	NR	-	NR	-
2,4,6-Tribromophenol	NR	NR			NR	NR	-	NR	-
4-Terphenyl-d14	NR	NR			NR	NR	-	NR	-



Quality Control Report

Client: Terracon	WorkOrder: 1709668
Date Prepared: 9/15/17	BatchID: 145564
Date Analyzed: 9/19/17	Extraction Method: SW5030B
Instrument: GC3	Analytical Method: SW8021B/8015Bm
Matrix: Soil	Unit: mg/Kg
Project: R1177B45/0774; 2330 Webster Street, Oakland	Sample ID: MB/LCS-145564

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	1.0	-	-	-
MTBE	ND	0.050	-	-	-
Benzene	ND	0.0050	-	-	-
Toluene	ND	0.0050	-	-	-
Ethylbenzene	ND	0.0050	-	-	-
Xylenes	ND	0.015	-	-	-
Surrogate Recovery					
2-Fluorotoluene	0.1085		0.10	108	75-134

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	0.575	-	0.60	96	-	82-118	-	-
MTBE	0.0828	-	0.10	83	-	61-119	-	-
Benzene	0.0908	-	0.10	91	-	77-128	-	-
Toluene	0.0972	-	0.10	97	-	74-132	-	-
Ethylbenzene	0.104	-	0.10	104	-	84-127	-	-
Xylenes	0.323	-	0.30	108	-	86-129	-	-
Surrogate Recovery								
2-Fluorotoluene	0.102	-	0.10	102	-	75-134	-	-



Quality Control Report

Client: Terracon	WorkOrder: 1709668
Date Prepared: 9/15/17	BatchID: 145576
Date Analyzed: 9/18/17 - 9/19/17	Extraction Method: SW3050B
Instrument: ICP-MS1, ICP-MS3	Analytical Method: SW6020
Matrix: Soil	Unit: mg/Kg
Project: R1177B45/0774; 2330 Webster Street, Oakland	Sample ID: MB/LCS-145576 1709644-001AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	50.3	0.25	50	-	101	75-125
Chromium	ND	49.2	0.50	50	-	98	75-125
Lead	ND	50.5	0.50	50	-	101	75-125
Nickel	ND	50.2	0.50	50	-	100	75-125
Zinc	ND	505	5.0	500	-	101	75-125
Surrogate Recovery							
Terbium	481.6	490		500	96	98	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	101	49.6	50	0.4999	201,F10	98	75-125	68.2,F10	20
Chromium	153	141	50	363.9	0,F13	0,F13	75-125	NA	20
Lead	206	96.0	50	59.75	292,F10	72,F10	75-125	72.7,F10	20
Nickel	122	102	50	206.4	0,F13	0,F13	75-125	NA	20
Zinc	1230	629	500	254.1	195,F10	75	75-125	64.5,F10	20
Surrogate Recovery									
Terbium	535	520	500		107	104	70-130	2.78	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Cadmium	ND<1.2	0.4999	-	-
Chromium	379	363.9	4.15	20
Lead	62.3	59.75	4.27	20
Nickel	210	206.4	1.74	20
Zinc	252	254.1	0.826	20

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



Quality Control Report

Client: Terracon	WorkOrder: 1709668
Date Prepared: 9/15/17	BatchID: 145575
Date Analyzed: 9/16/17	Extraction Method: SW3550B
Instrument: GC39B	Analytical Method: SW8015B
Matrix: Soil	Unit: mg/Kg
Project: R1177B45/0774; 2330 Webster Street, Oakland	Sample ID: MB/LCS-145575 1709646-017AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	31.4	1.0	40	-	78	75-128
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	21.49	20.9		25	86	84	72-122

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	NR	NR		560	NR	NR	-	NR	-
Surrogate Recovery									
C9	NR	NR			NR	NR	-	NR	-



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1709668

ClientCode: RGAE

- WaterTrax
 WriteOn
 EDF
 Excel
 EQulS
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

Paul King
Terracon
1466 66th Street
Emeryville, CA 94608
(510) 658-6916 FAX: (510) 834-0152

Email: paul.king@terracon.com; pdking0000@aol.
cc/3rd Party:
PO:
ProjectNo: R1177B45/0774; 2330 Webster Street,
Oakland

Bill to:

Anita G. IIsley
Terracon
1466 66th Street
Emeryville, CA 94608
anita.ilsley@rgaenv.com

Requested TAT: 2 days;

Date Received: 09/15/2017

Date Logged: 09/15/2017

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	
1709668-001	T1-11.0	Soil	9/15/2017 00:00	<input type="checkbox"/>	A	A	A	A	A	A	A						

Test Legend:

1	8082_PCB_S	2	8260B_S	3	8270_PNA_S	4	8270_S
5	G-MBTEX_S	6	METALSMS_TTLC_S	7	TPH(DMO)_S	8	
9		10		11		12	

Prepared by: Alexandra Iniguez

The following SampID: 001A 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: TERRACON

Project: R1177B45/0774; 2330 Webster Street, Oakland

Work Order: 1709668

Client Contact: Paul King

QC Level: LEVEL 2

Contact's Email: paul.king@terracon.com; pdking0000@aol.com;
lab@pdenviro.com

Comments:

Date Logged: 9/15/2017


WaterTrax WriteOn EDF Excel Fax 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
1709668-001A	T1-11.0	Soil	Multi-Range TPH(g,d,mo) by EPA 8015Bm	1	Stainless Steel tube 2"x6"	<input type="checkbox"/>	9/15/2017	2 days		<input type="checkbox"/>	
			SW6020 (Metals) <Cadmium, Chromium, Lead, Nickel, Zinc>			<input type="checkbox"/>		2 days		<input type="checkbox"/>	
			SW8270C (SVOCs)			<input type="checkbox"/>		2 days		<input type="checkbox"/>	
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>		2 days		<input checked="" type="checkbox"/>	
			SW8260B (VOCs)			<input type="checkbox"/>		2 days		<input type="checkbox"/>	
			SW8082 (PCBs Only)			<input type="checkbox"/>		2 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.

CHAIN OF CUSTODY RECORD

 RGAE ENVIRONMENTAL A TERRACON COMPANY		RGA Environmental, Inc. 1466 66th Street Emeryville, CA 94608 (510) 658-4363			RUSH!		NUMBER OF CONTAINERS	ANALYSIS(ES): TPH-Multi-range (G/D/MO) VOCs by EPA 8260B PCBs by EPA 8260B SVOCs including PAHs (benzene, penta, hexa, hepta, octa) by EPA 8270 Total Cd, Cr, Pb, Ni, Zn				PRESERVATIVE	REMARKS	
PROJECT NUMBER: R1177B45/0774		PROJECT NAME: 2330 Webster Street, Oakland												
SAMPLED BY: (PRINTED & SIGNATURE) Lindsey Deschenes [Signature]							1	X	X	X	X	X	ICE	48hr-RUSH TAT
SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION										
TI-11.0	9/15/17	—	SOIL											
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		Total No. of Samples (This Shipment)	1	LABORATORY:						
[Signature]		9/15/17	1930	Moises		Total No. of Containers (This Shipment)	1	McC Campbell Analytical, Inc.						
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		LABORATORY CONTACT:		LABORATORY PHONE NUMBER:						
Moises		9/15/17	2:00	[Signature]		Angela Rydelius		(877) 252-9262						
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)		SAMPLE ANALYSIS REQUEST SHEET ATTACHED: () YES (X) NO								
						(X) NO								
Results and billing to: RGA Environmental, Inc. pdking0000@aol.com				REMARKS:										



Sample Receipt Checklist

Client Name: **Terracon**
 Project Name: **R1177B45/0774; 2330 Webster Street, Oakland**
 WorkOrder No: **1709668** Matrix: Soil
 Carrier: Moises Vasquez (contract courier)

Date and Time Received: **9/15/2017 21:00**
 Date Logged: **9/15/2017**
 Received by: **Alexandra Iniguez**
 Logged by: **Alexandra Iniguez**

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 checked="" type="checkbox"/>	No	<input type="checkbox"/>	NA <input 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"/>
Sample/Temp Blank temperature			Temp: 16.2°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; 522: <4; 218.7: >8)?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	

(Ice Type: OTHERS)

UCMR Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1709669

Report Created for: Terracon

1466 66th Street
Emeryville, CA 94608

Project Contact: Paul King

Project P.O.:

Project Name: R1177B45/0774; 2330 Webster St., Oakland

Project Received: 09/15/2017

Analytical Report reviewed & approved for release on 09/20/2017 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: Terracon
Project: R1177B45/0774; 2330 Webster St., Oakland
WorkOrder: 1709669

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
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
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: Terracon
Project: R1177B45/0774; 2330 Webster St., Oakland
WorkOrder: 1709669

Analytical Qualifiers

S Surrogate spike recovery outside accepted recovery limits
F Sample was filtered upon arrival to the lab
a19 Reporting limit near, but not identical to our standard reporting limit due to variable sample volume
b1 Aqueous sample that contains greater than ~1 vol. % sediment
c11 The surrogate recovery is above the upper control limit. The target analyte(s) were Not Detected (ND); therefore, the data has been reported.
e7 Oil range compounds are significant



Analytical Report

Client: Terracon
Date Received: 9/15/17 21:00
Date Prepared: 9/15/17
Project: R1177B45/0774; 2330 Webster St., Oakland

WorkOrder: 1709669
Extraction Method: SW3510C
Analytical Method: SW8082
Unit: µg/L

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B12-W	1709669-001C	Water	09/15/2017 17:50	GC20 09191706.D	145562

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Aroclor1016	ND	0.50	1	09/19/2017 10:48
Aroclor1221	ND	0.50	1	09/19/2017 10:48
Aroclor1232	ND	0.50	1	09/19/2017 10:48
Aroclor1242	ND	0.50	1	09/19/2017 10:48
Aroclor1248	ND	0.50	1	09/19/2017 10:48
Aroclor1254	ND	0.50	1	09/19/2017 10:48
Aroclor1260	ND	0.50	1	09/19/2017 10:48
PCBs, total	ND	0.50	1	09/19/2017 10:48

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	<u>Date Analyzed</u>
Decachlorobiphenyl	101	70-130	09/19/2017 10:48

Analyst(s): CK **Analytical Comments:** b1



Analytical Report

Client: Terracon
Date Received: 9/15/17 21:00
Date Prepared: 9/17/17
Project: R1177B45/0774; 2330 Webster St., Oakland

WorkOrder: 1709669
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B12-W	1709669-001B	Water	09/15/2017 17:50	GC18 09171714.D	145622

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	09/17/2017 21:40
tert-Amyl methyl ether (TAME)	ND	0.50	1	09/17/2017 21:40
Benzene	ND	0.50	1	09/17/2017 21:40
Bromobenzene	ND	0.50	1	09/17/2017 21:40
Bromochloromethane	ND	0.50	1	09/17/2017 21:40
Bromodichloromethane	ND	0.50	1	09/17/2017 21:40
Bromoform	ND	0.50	1	09/17/2017 21:40
Bromomethane	ND	0.50	1	09/17/2017 21:40
2-Butanone (MEK)	ND	2.0	1	09/17/2017 21:40
t-Butyl alcohol (TBA)	ND	2.0	1	09/17/2017 21:40
n-Butyl benzene	ND	0.50	1	09/17/2017 21:40
sec-Butyl benzene	ND	0.50	1	09/17/2017 21:40
tert-Butyl benzene	ND	0.50	1	09/17/2017 21:40
Carbon Disulfide	ND	0.50	1	09/17/2017 21:40
Carbon Tetrachloride	ND	0.50	1	09/17/2017 21:40
Chlorobenzene	ND	0.50	1	09/17/2017 21:40
Chloroethane	ND	0.50	1	09/17/2017 21:40
Chloroform	5.9	0.50	1	09/17/2017 21:40
Chloromethane	ND	0.50	1	09/17/2017 21:40
2-Chlorotoluene	ND	0.50	1	09/17/2017 21:40
4-Chlorotoluene	ND	0.50	1	09/17/2017 21:40
Dibromochloromethane	ND	0.50	1	09/17/2017 21:40
1,2-Dibromo-3-chloropropane	ND	0.20	1	09/17/2017 21:40
1,2-Dibromoethane (EDB)	ND	0.50	1	09/17/2017 21:40
Dibromomethane	ND	0.50	1	09/17/2017 21:40
1,2-Dichlorobenzene	ND	0.50	1	09/17/2017 21:40
1,3-Dichlorobenzene	ND	0.50	1	09/17/2017 21:40
1,4-Dichlorobenzene	ND	0.50	1	09/17/2017 21:40
Dichlorodifluoromethane	ND	0.50	1	09/17/2017 21:40
1,1-Dichloroethane	ND	0.50	1	09/17/2017 21:40
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	09/17/2017 21:40
1,1-Dichloroethene	0.51	0.50	1	09/17/2017 21:40
cis-1,2-Dichloroethene	ND	0.50	1	09/17/2017 21:40
trans-1,2-Dichloroethene	ND	0.50	1	09/17/2017 21:40
1,2-Dichloropropane	ND	0.50	1	09/17/2017 21:40
1,3-Dichloropropane	ND	0.50	1	09/17/2017 21:40
2,2-Dichloropropane	ND	0.50	1	09/17/2017 21:40

(Cont.)



Analytical Report

Client: Terracon
Date Received: 9/15/17 21:00
Date Prepared: 9/17/17
Project: R1177B45/0774; 2330 Webster St., Oakland

WorkOrder: 1709669
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B12-W	1709669-001B	Water	09/15/2017 17:50	GC18 09171714.D	145622

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	09/17/2017 21:40
cis-1,3-Dichloropropene	ND	0.50	1	09/17/2017 21:40
trans-1,3-Dichloropropene	ND	0.50	1	09/17/2017 21:40
Diisopropyl ether (DIPE)	ND	0.50	1	09/17/2017 21:40
Ethylbenzene	ND	0.50	1	09/17/2017 21:40
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	09/17/2017 21:40
Freon 113	ND	0.50	1	09/17/2017 21:40
Hexachlorobutadiene	ND	0.50	1	09/17/2017 21:40
Hexachloroethane	ND	0.50	1	09/17/2017 21:40
2-Hexanone	ND	0.50	1	09/17/2017 21:40
Isopropylbenzene	ND	0.50	1	09/17/2017 21:40
4-Isopropyl toluene	ND	0.50	1	09/17/2017 21:40
Methyl-t-butyl ether (MTBE)	ND	0.50	1	09/17/2017 21:40
Methylene chloride	ND	0.50	1	09/17/2017 21:40
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	09/17/2017 21:40
Naphthalene	ND	0.50	1	09/17/2017 21:40
n-Propyl benzene	ND	0.50	1	09/17/2017 21:40
Styrene	ND	0.50	1	09/17/2017 21:40
1,1,1,2-Tetrachloroethane	ND	0.50	1	09/17/2017 21:40
1,1,2,2-Tetrachloroethane	ND	0.50	1	09/17/2017 21:40
Tetrachloroethene	ND	0.50	1	09/17/2017 21:40
Toluene	ND	0.50	1	09/17/2017 21:40
1,2,3-Trichlorobenzene	ND	0.50	1	09/17/2017 21:40
1,2,4-Trichlorobenzene	ND	0.50	1	09/17/2017 21:40
1,1,1-Trichloroethane	ND	0.50	1	09/17/2017 21:40
1,1,2-Trichloroethane	ND	0.50	1	09/17/2017 21:40
Trichloroethene	ND	0.50	1	09/17/2017 21:40
Trichlorofluoromethane	ND	0.50	1	09/17/2017 21:40
1,2,3-Trichloropropane	ND	0.50	1	09/17/2017 21:40
1,2,4-Trimethylbenzene	ND	0.50	1	09/17/2017 21:40
1,3,5-Trimethylbenzene	ND	0.50	1	09/17/2017 21:40
Vinyl Chloride	ND	0.50	1	09/17/2017 21:40
Xylenes, Total	ND	0.50	1	09/17/2017 21:40

(Cont.)



Analytical Report

Client: Terracon
Date Received: 9/15/17 21:00
Date Prepared: 9/17/17
Project: R1177B45/0774; 2330 Webster St., Oakland

WorkOrder: 1709669
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B12-W	1709669-001B	Water	09/15/2017 17:50	GC18 09171714.D	145622

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	108	78-134		09/17/2017 21:40
Toluene-d8	116	82-120		09/17/2017 21:40
4-BFB	86	69-131		09/17/2017 21:40
<u>Analyst(s):</u> HK	<u>Analytical Comments:</u> b1			



Analytical Report

Client: Terracon
Date Received: 9/15/17 21:00
Date Prepared: 9/16/17
Project: R1177B45/0774; 2330 Webster St., Oakland

WorkOrder: 1709669
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B12-W	1709669-001D	Water	09/15/2017 17:50	GC17 09181708.D	145512

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	2.8	1	09/18/2017 13:08
Acenaphthylene	ND	2.8	1	09/18/2017 13:08
Acetochlor	ND	2.8	1	09/18/2017 13:08
Anthracene	ND	2.8	1	09/18/2017 13:08
Benzidine	ND	14	1	09/18/2017 13:08
Benzo (a) anthracene	ND	2.8	1	09/18/2017 13:08
Benzo (a) pyrene	ND	2.8	1	09/18/2017 13:08
Benzo (b) fluoranthene	ND	2.8	1	09/18/2017 13:08
Benzo (g,h,i) perylene	ND	2.8	1	09/18/2017 13:08
Benzo (k) fluoranthene	ND	2.8	1	09/18/2017 13:08
Benzyl Alcohol	ND	14	1	09/18/2017 13:08
1,1-Biphenyl	ND	2.8	1	09/18/2017 13:08
Bis (2-chloroethoxy) Methane	ND	2.8	1	09/18/2017 13:08
Bis (2-chloroethyl) Ether	ND	2.8	1	09/18/2017 13:08
Bis (2-chloroisopropyl) Ether	ND	2.8	1	09/18/2017 13:08
Bis (2-ethylhexyl) Adipate	ND	2.8	1	09/18/2017 13:08
Bis (2-ethylhexyl) Phthalate	ND	5.6	1	09/18/2017 13:08
4-Bromophenyl Phenyl Ether	ND	14	1	09/18/2017 13:08
Butylbenzyl Phthalate	ND	2.8	1	09/18/2017 13:08
4-Chloroaniline	ND	5.6	1	09/18/2017 13:08
4-Chloro-3-methylphenol	ND	14	1	09/18/2017 13:08
2-Chloronaphthalene	ND	2.8	1	09/18/2017 13:08
2-Chlorophenol	ND	2.8	1	09/18/2017 13:08
4-Chlorophenyl Phenyl Ether	ND	2.8	1	09/18/2017 13:08
Chrysene	ND	2.8	1	09/18/2017 13:08
Dibenzo (a,h) anthracene	ND	2.8	1	09/18/2017 13:08
Dibenzofuran	ND	2.8	1	09/18/2017 13:08
Di-n-butyl Phthalate	ND	2.8	1	09/18/2017 13:08
1,2-Dichlorobenzene	ND	2.8	1	09/18/2017 13:08
1,3-Dichlorobenzene	ND	2.8	1	09/18/2017 13:08
1,4-Dichlorobenzene	ND	2.8	1	09/18/2017 13:08
3,3-Dichlorobenzidine	ND	5.6	1	09/18/2017 13:08
2,4-Dichlorophenol	ND	2.8	1	09/18/2017 13:08
Diethyl Phthalate	ND	2.8	1	09/18/2017 13:08
2,4-Dimethylphenol	ND	2.8	1	09/18/2017 13:08
Dimethyl Phthalate	ND	2.8	1	09/18/2017 13:08
4,6-Dinitro-2-methylphenol	ND	14	1	09/18/2017 13:08

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Analytical Report

Client: Terracon
Date Received: 9/15/17 21:00
Date Prepared: 9/16/17
Project: R1177B45/0774; 2330 Webster St., Oakland

WorkOrder: 1709669
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B12-W	1709669-001D	Water	09/15/2017 17:50	GC17 09181708.D	145512

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	35	1	09/18/2017 13:08
2,4-Dinitrotoluene	ND	2.8	1	09/18/2017 13:08
2,6-Dinitrotoluene	ND	2.8	1	09/18/2017 13:08
Di-n-octyl Phthalate	ND	2.8	1	09/18/2017 13:08
1,2-Diphenylhydrazine	ND	2.8	1	09/18/2017 13:08
Fluoranthene	ND	2.8	1	09/18/2017 13:08
Fluorene	ND	2.8	1	09/18/2017 13:08
Hexachlorobenzene	ND	2.8	1	09/18/2017 13:08
Hexachlorobutadiene	ND	2.8	1	09/18/2017 13:08
Hexachlorocyclopentadiene	ND	14	1	09/18/2017 13:08
Hexachloroethane	ND	2.8	1	09/18/2017 13:08
Indeno (1,2,3-cd) pyrene	ND	2.8	1	09/18/2017 13:08
Isophorone	ND	2.8	1	09/18/2017 13:08
2-Methylnaphthalene	ND	2.8	1	09/18/2017 13:08
2-Methylphenol (o-Cresol)	ND	2.8	1	09/18/2017 13:08
3 & 4-Methylphenol (m,p-Cresol)	ND	2.8	1	09/18/2017 13:08
Naphthalene	ND	2.8	1	09/18/2017 13:08
2-Nitroaniline	ND	14	1	09/18/2017 13:08
3-Nitroaniline	ND	14	1	09/18/2017 13:08
4-Nitroaniline	ND	14	1	09/18/2017 13:08
Nitrobenzene	ND	2.8	1	09/18/2017 13:08
2-Nitrophenol	ND	14	1	09/18/2017 13:08
4-Nitrophenol	ND	14	1	09/18/2017 13:08
N-Nitrosodiphenylamine	ND	2.8	1	09/18/2017 13:08
N-Nitrosodi-n-propylamine	ND	2.8	1	09/18/2017 13:08
Pentachlorophenol	ND	14	1	09/18/2017 13:08
Phenanthrene	ND	2.8	1	09/18/2017 13:08
Phenol	ND	2.8	1	09/18/2017 13:08
Pyrene	ND	2.8	1	09/18/2017 13:08
Pyridine	ND	2.8	1	09/18/2017 13:08
1,2,4-Trichlorobenzene	ND	2.8	1	09/18/2017 13:08
2,4,5-Trichlorophenol	ND	2.8	1	09/18/2017 13:08
2,4,6-Trichlorophenol	ND	2.8	1	09/18/2017 13:08

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Analytical Report

Client: Terracon
Date Received: 9/15/17 21:00
Date Prepared: 9/16/17
Project: R1177B45/0774; 2330 Webster St., Oakland

WorkOrder: 1709669
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B12-W	1709669-001D	Water	09/15/2017 17:50	GC17 09181708.D	145512

Analytes	Result		RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorophenol	93		8-130		09/18/2017 13:08
Phenol-d5	69		5-130		09/18/2017 13:08
Nitrobenzene-d5	183	S	20-140		09/18/2017 13:08
2-Fluorobiphenyl	165	S	40-140		09/18/2017 13:08
2,4,6-Tribromophenol	180		16-180		09/18/2017 13:08
4-Terphenyl-d14	199	S	40-170		09/18/2017 13:08

Analyst(s): REB

Analytical Comments: a19,c11,b1



Analytical Report

Client: Terracon
Date Received: 9/15/17 21:00
Date Prepared: 9/18/17
Project: R1177B45/0774; 2330 Webster St., Oakland

WorkOrder: 1709669
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B12-W	1709669-001A	Water	09/15/2017 17:50	GC3 09181706.D	145621

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	09/18/2017 13:14
MTBE	---	5.0	1	09/18/2017 13:14
Benzene	---	0.50	1	09/18/2017 13:14
Toluene	---	0.50	1	09/18/2017 13:14
Ethylbenzene	---	0.50	1	09/18/2017 13:14
Xylenes	---	1.5	1	09/18/2017 13:14

Surrogates	REC (%)	Limits	
aaa-TFT	104	89-115	09/18/2017 13:14

Analyst(s): IA

Analytical Comments: b1



Analytical Report

Client: Terracon
Date Received: 9/15/17 21:00
Date Prepared: 9/15/17
Project: R1177B45/0774; 2330 Webster St., Oakland

WorkOrder: 1709669
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L

Dissolved Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B12-W	1709669-001F	Water	09/15/2017 17:50	ICP-MS3 206SMPL.D	145585

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Cadmium	ND	F	0.25	1	09/19/2017 06:48
Chromium	ND	F	0.50	1	09/19/2017 06:48
Lead	ND	F	0.50	1	09/19/2017 06:48
Nickel	9.9	F	0.50	1	09/19/2017 06:48
Zinc	ND	F	15	1	09/19/2017 06:48

Analyst(s): JC

Analytical Comments: b1



Analytical Report

Client: Terracon
Date Received: 9/15/17 21:00
Date Prepared: 9/15/17
Project: R1177B45/0774; 2330 Webster St., Oakland

WorkOrder: 1709669
Extraction Method: SW3510C/3630C
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
B12-W	1709669-001A	Water	09/15/2017 17:50	GC11A 09191710.D	145519

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	49	1	09/19/2017 16:14
TPH-Motor Oil (C18-C36)	160	100	1	09/19/2017 16:14
TPH-Bunker Oil (C10-C36)	160	100	1	09/19/2017 16:14

Surrogates	REC (%)	Limits	Date Analyzed
C26	71	70-130	09/19/2017 16:14

Analyst(s): TD **Analytical Comments:** e7,b1



Quality Control Report

Client: Terracon	WorkOrder: 1709669
Date Prepared: 9/15/17	BatchID: 145562
Date Analyzed: 9/19/17	Extraction Method: SW3510C
Instrument: GC40	Analytical Method: SW8082
Matrix: Water	Unit: µg/L
Project: R1177B45/0774; 2330 Webster St., Oakland	Sample ID: MB/LCS/LCSD-145562

QC Summary Report for SW8082

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Aroclor1016	ND	0.50	-	-	-
Aroclor1221	ND	0.50	-	-	-
Aroclor1232	ND	0.50	-	-	-
Aroclor1242	ND	0.50	-	-	-
Aroclor1248	ND	0.50	-	-	-
Aroclor1254	ND	0.50	-	-	-
Aroclor1260	ND	0.50	-	-	-
PCBs, total	ND	0.50	-	-	-

Surrogate Recovery

Decachlorobiphenyl	1.114	1.25	89	70-130
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Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aroclor1016	3.78	3.71	3.75	101	99	70-130	1.94	20
Aroclor1260	3.88	4.00	3.75	103	107	70-130	3.10	20

Surrogate Recovery

Decachlorobiphenyl	1.22	1.27	1.25	98	102	70-130	4.22	20
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Quality Control Report

Client: Terracon
Date Prepared: 9/17/17 - 9/18/17
Date Analyzed: 9/17/17 - 9/18/17
Instrument: GC18
Matrix: Water
Project: R1177B45/0774; 2330 Webster St., Oakland

WorkOrder: 1709669
BatchID: 145622
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS/LCSD-145622

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	10	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.50	-	-	-
Benzene	ND	0.50	-	-	-
Bromobenzene	ND	0.50	-	-	-
Bromochloromethane	ND	0.50	-	-	-
Bromodichloromethane	ND	0.50	-	-	-
Bromoform	ND	0.50	-	-	-
Bromomethane	ND	0.50	-	-	-
2-Butanone (MEK)	ND	2.0	-	-	-
t-Butyl alcohol (TBA)	ND	2.0	-	-	-
n-Butyl benzene	ND	0.50	-	-	-
sec-Butyl benzene	ND	0.50	-	-	-
tert-Butyl benzene	ND	0.50	-	-	-
Carbon Disulfide	ND	0.50	-	-	-
Carbon Tetrachloride	ND	0.50	-	-	-
Chlorobenzene	ND	0.50	-	-	-
Chloroethane	ND	0.50	-	-	-
Chloroform	ND	0.50	-	-	-
Chloromethane	ND	0.50	-	-	-
2-Chlorotoluene	ND	0.50	-	-	-
4-Chlorotoluene	ND	0.50	-	-	-
Dibromochloromethane	ND	0.50	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.20	-	-	-
1,2-Dibromoethane (EDB)	ND	0.50	-	-	-
Dibromomethane	ND	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.50	-	-	-
Dichlorodifluoromethane	ND	0.50	-	-	-
1,1-Dichloroethane	ND	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.50	-	-	-
1,1-Dichloroethene	ND	0.50	-	-	-
cis-1,2-Dichloroethene	ND	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.50	-	-	-
1,2-Dichloropropane	ND	0.50	-	-	-
1,3-Dichloropropane	ND	0.50	-	-	-
2,2-Dichloropropane	ND	0.50	-	-	-
1,1-Dichloropropene	ND	0.50	-	-	-
cis-1,3-Dichloropropene	ND	0.50	-	-	-

(Cont.)



Quality Control Report

Client: Terracon
Date Prepared: 9/17/17 - 9/18/17
Date Analyzed: 9/17/17 - 9/18/17
Instrument: GC18
Matrix: Water
Project: R1177B45/0774; 2330 Webster St., Oakland

WorkOrder: 1709669
BatchID: 145622
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS/LCSD-145622

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
trans-1,3-Dichloropropene	ND	0.50	-	-	-
Diisopropyl ether (DIPE)	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.50	-	-	-
Freon 113	ND	0.50	-	-	-
Hexachlorobutadiene	ND	0.50	-	-	-
Hexachloroethane	ND	0.50	-	-	-
2-Hexanone	ND	0.50	-	-	-
Isopropylbenzene	ND	0.50	-	-	-
4-Isopropyl toluene	ND	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.50	-	-	-
Methylene chloride	ND	0.50	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.50	-	-	-
Naphthalene	ND	0.50	-	-	-
n-Propyl benzene	ND	0.50	-	-	-
Styrene	ND	0.50	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.50	-	-	-
Tetrachloroethene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
1,2,3-Trichlorobenzene	ND	0.50	-	-	-
1,2,4-Trichlorobenzene	ND	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.50	-	-	-
Trichloroethene	ND	0.50	-	-	-
Trichlorofluoromethane	ND	0.50	-	-	-
1,2,3-Trichloropropane	ND	0.50	-	-	-
1,2,4-Trimethylbenzene	ND	0.50	-	-	-
1,3,5-Trimethylbenzene	ND	0.50	-	-	-
Vinyl Chloride	ND	0.50	-	-	-
Xylenes, Total	ND	0.50	-	-	-

Surrogate Recovery

Dibromofluoromethane	27.69		25	111	91-133
Toluene-d8	29.35		25	117	87-127
4-BFB	2.117		2.5	85	66-140

(Cont.)



Quality Control Report

Client: Terracon
Date Prepared: 9/17/17 - 9/18/17
Date Analyzed: 9/17/17 - 9/18/17
Instrument: GC18
Matrix: Water
Project: R1177B45/0774; 2330 Webster St., Oakland

WorkOrder: 1709669
BatchID: 145622
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS/LCSD-145622

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	143	147	200	71	73	47-122	2.73	20
tert-Amyl methyl ether (TAME)	8.09	8.33	10	81	83	62-121	2.87	20
Benzene	9.56	9.79	10	96	98	74-121	2.33	20
Bromobenzene	9.20	9.20	10	92	92	63-127	0	20
Bromochloromethane	9.21	9.34	10	92	93	70-126	1.39	20
Bromodichloromethane	8.69	8.90	10	87	89	66-127	2.35	20
Bromoform	7.16	7.35	10	72	73	60-119	2.60	20
Bromomethane	10.9	11.5	10	109	115	32-155	5.89	20
2-Butanone (MEK)	23.0	23.4	40	58	59	51-117	1.62	20
t-Butyl alcohol (TBA)	26.4	27.2	40	66	68	41-122	3.00	20
n-Butyl benzene	10.7	10.8	10	107	108	73-137	0.478	20
sec-Butyl benzene	11.2	11.1	10	112	111	71-137	1.01	20
tert-Butyl benzene	9.02	9.12	10	90	91	61-136	0.993	20
Carbon Disulfide	9.27	9.37	10	93	94	61-139	1.01	20
Carbon Tetrachloride	8.66	9.06	10	87	91	69-137	4.61	20
Chlorobenzene	9.22	9.41	10	92	94	71-122	1.97	20
Chloroethane	11.0	11.0	10	110	110	54-132	0	20
Chloroform	9.11	9.34	10	91	93	73-122	2.52	20
Chloromethane	11.2	11.2	10	112	112	48-136	0	20
2-Chlorotoluene	9.78	9.92	10	98	99	65-134	1.44	20
4-Chlorotoluene	8.69	8.75	10	87	87	65-130	0	20
Dibromochloromethane	7.82	7.99	10	78	80	65-121	2.23	20
1,2-Dibromo-3-chloropropane	2.94	2.86	4	74	72	41-132	2.66	20
1,2-Dibromoethane (EDB)	8.26	8.42	10	83	84	67-125	1.87	20
Dibromomethane	8.38	8.57	10	84	86	68-121	2.30	20
1,2-Dichlorobenzene	7.70	7.75	10	77	77	69-128	0	20
1,3-Dichlorobenzene	9.72	9.95	10	97	99	71-131	2.31	20
1,4-Dichlorobenzene	9.10	9.29	10	91	93	70-128	2.15	20
Dichlorodifluoromethane	8.24	8.79	10	82	88	21-158	6.51	20
1,1-Dichloroethane	9.15	9.35	10	91	94	73-123	2.20	20
1,2-Dichloroethane (1,2-DCA)	8.01	8.25	10	80	82	61-127	2.86	20
1,1-Dichloroethene	9.08	9.33	10	91	93	68-130	2.73	20
cis-1,2-Dichloroethene	9.21	9.46	10	92	95	72-123	2.66	20
trans-1,2-Dichloroethene	9.60	9.77	10	96	98	64-138	1.75	20
1,2-Dichloropropane	9.15	9.17	10	92	92	71-121	0	20
1,3-Dichloropropane	8.15	8.26	10	82	83	69-120	1.26	20
2,2-Dichloropropane	8.44	8.69	10	84	87	64-142	2.88	20
1,1-Dichloropropene	9.45	9.64	10	95	96	70-130	1.99	20
cis-1,3-Dichloropropene	8.20	8.38	10	82	84	58-136	2.18	20

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Quality Control Report

Client: Terracon
Date Prepared: 9/17/17 - 9/18/17
Date Analyzed: 9/17/17 - 9/18/17
Instrument: GC18
Matrix: Water
Project: R1177B45/0774; 2330 Webster St., Oakland

WorkOrder: 1709669
BatchID: 145622
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS/LCSD-145622

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	7.75	8.00	10	78	80	66-119	3.12	20
Diisopropyl ether (DIPE)	8.62	8.85	10	86	88	66-123	2.53	20
Ethylbenzene	10.0	10.2	10	100	102	71-125	1.27	20
Ethyl tert-butyl ether (ETBE)	8.51	8.84	10	85	88	67-122	3.77	20
Freon 113	8.90	9.11	10	89	91	68-132	2.37	20
Hexachlorobutadiene	8.54	8.67	10	85	87	56-155	1.54	20
Hexachloroethane	9.03	9.21	10	90	92	61-129	1.99	20
2-Hexanone	6.35	6.53	10	64	65	51-115	2.79	20
Isopropylbenzene	11.0	11.0	10	110	110	66-134	0	20
4-Isopropyl toluene	11.0	11.0	10	110	110	70-136	0	20
Methyl-t-butyl ether (MTBE)	8.03	8.31	10	80	83	64-118	3.43	20
Methylene chloride	8.25	8.39	10	83	84	62-121	1.62	20
4-Methyl-2-pentanone (MIBK)	6.39	6.50	10	64	65	51-115	1.70	20
Naphthalene	6.77	6.91	10	68	69	55-137	2.01	20
n-Propyl benzene	9.97	10.1	10	100	101	63-140	1.67	20
Styrene	8.07	8.28	10	81	83	62-133	2.52	20
1,1,1,2-Tetrachloroethane	8.79	9.07	10	88	91	69-128	3.10	20
1,1,2,2-Tetrachloroethane	8.06	7.99	10	81	80	60-118	0.882	20
Tetrachloroethene	9.24	9.40	10	92	94	63-136	1.78	20
Toluene	8.96	9.10	10	90	91	67-124	1.55	20
1,2,3-Trichlorobenzene	7.79	7.88	10	78	79	57-145	1.20	20
1,2,4-Trichlorobenzene	7.98	8.12	10	80	81	60-144	1.72	20
1,1,1-Trichloroethane	8.83	9.17	10	88	92	70-133	3.75	20
1,1,2-Trichloroethane	8.31	8.46	10	83	85	65-125	1.70	20
Trichloroethene	9.06	9.25	10	91	93	67-133	2.06	20
Trichlorofluoromethane	8.56	8.93	10	86	89	59-145	4.27	20
1,2,3-Trichloropropane	8.02	8.17	10	80	82	65-115	1.84	20
1,2,4-Trimethylbenzene	10.7	10.9	10	107	109	67-136	1.65	20
1,3,5-Trimethylbenzene	10.8	10.8	10	108	108	68-135	0	20
Vinyl Chloride	13.2	13.0	10	132	130	53-146	1.21	20
Xylenes, Total	26.9	27.6	30	90	92	68-128	2.44	20
Surrogate Recovery								
Dibromofluoromethane	27.2	27.5	25	109	110	91-133	1.12	20
Toluene-d8	29.5	29.6	25	118	118	87-127	0	20
4-BFB	2.24	2.20	2.5	90	88	66-140	1.90	20



Quality Control Report

Client: Terracon
Date Prepared: 9/15/17
Date Analyzed: 9/15/17
Instrument: GC21
Matrix: Water
Project: R1177B45/0774; 2330 Webster St., Oakland

WorkOrder: 1709669
BatchID: 145512
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L
Sample ID: MB/LCS/LCSD-145512

QC Summary Report for SW8270C

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acenaphthene	ND	2.0	-	-	-
Acenaphthylene	ND	2.0	-	-	-
Acetochlor	ND	2.0	-	-	-
Anthracene	ND	2.0	-	-	-
Benzidine	ND	10	-	-	-
Benzo (a) anthracene	ND	2.0	-	-	-
Benzo (a) pyrene	ND	2.0	-	-	-
Benzo (b) fluoranthene	ND	2.0	-	-	-
Benzo (g,h,i) perylene	ND	2.0	-	-	-
Benzo (k) fluoranthene	ND	2.0	-	-	-
Benzyl Alcohol	ND	10	-	-	-
1,1-Biphenyl	ND	2.0	-	-	-
Bis (2-chloroethoxy) Methane	ND	2.0	-	-	-
Bis (2-chloroethyl) Ether	ND	2.0	-	-	-
Bis (2-chloroisopropyl) Ether	ND	2.0	-	-	-
Bis (2-ethylhexyl) Adipate	ND	2.0	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	4.0	-	-	-
4-Bromophenyl Phenyl Ether	ND	10	-	-	-
Butylbenzyl Phthalate	ND	2.0	-	-	-
4-Chloroaniline	ND	4.0	-	-	-
4-Chloro-3-methylphenol	ND	10	-	-	-
2-Chloronaphthalene	ND	2.0	-	-	-
2-Chlorophenol	ND	2.0	-	-	-
4-Chlorophenyl Phenyl Ether	ND	2.0	-	-	-
Chrysene	ND	2.0	-	-	-
Dibenzo (a,h) anthracene	ND	2.0	-	-	-
Dibenzofuran	ND	2.0	-	-	-
Di-n-butyl Phthalate	ND	2.0	-	-	-
1,2-Dichlorobenzene	ND	2.0	-	-	-
1,3-Dichlorobenzene	ND	2.0	-	-	-
1,4-Dichlorobenzene	ND	2.0	-	-	-
3,3-Dichlorobenzidine	ND	4.0	-	-	-
2,4-Dichlorophenol	ND	2.0	-	-	-
Diethyl Phthalate	ND	2.0	-	-	-
2,4-Dimethylphenol	ND	2.0	-	-	-
Dimethyl Phthalate	ND	2.0	-	-	-
4,6-Dinitro-2-methylphenol	ND	10	-	-	-
2,4-Dinitrophenol	ND	25	-	-	-
2,4-Dinitrotoluene	ND	2.0	-	-	-

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NELAP 4033ORELAP

 QA/QC Officer



Quality Control Report

Client: Terracon
Date Prepared: 9/15/17
Date Analyzed: 9/15/17
Instrument: GC21
Matrix: Water
Project: R1177B45/0774; 2330 Webster St., Oakland

WorkOrder: 1709669
BatchID: 145512
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L
Sample ID: MB/LCS/LCSD-145512

QC Summary Report for SW8270C

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
2,6-Dinitrotoluene	ND	2.0	-	-	-
Di-n-octyl Phthalate	ND	2.0	-	-	-
1,2-Diphenylhydrazine	ND	2.0	-	-	-
Fluoranthene	ND	2.0	-	-	-
Fluorene	ND	2.0	-	-	-
Hexachlorobenzene	ND	2.0	-	-	-
Hexachlorobutadiene	ND	2.0	-	-	-
Hexachlorocyclopentadiene	ND	10	-	-	-
Hexachloroethane	ND	2.0	-	-	-
Indeno (1,2,3-cd) pyrene	ND	2.0	-	-	-
Isophorone	ND	2.0	-	-	-
2-Methylnaphthalene	ND	2.0	-	-	-
2-Methylphenol (o-Cresol)	ND	2.0	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	2.0	-	-	-
Naphthalene	ND	2.0	-	-	-
2-Nitroaniline	ND	10	-	-	-
3-Nitroaniline	ND	10	-	-	-
4-Nitroaniline	ND	10	-	-	-
Nitrobenzene	ND	2.0	-	-	-
2-Nitrophenol	ND	10	-	-	-
4-Nitrophenol	ND	10	-	-	-
N-Nitrosodiphenylamine	ND	2.0	-	-	-
N-Nitrosodi-n-propylamine	ND	2.0	-	-	-
Pentachlorophenol	ND	10	-	-	-
Phenanthrene	ND	2.0	-	-	-
Phenol	ND	2.0	-	-	-
Pyrene	ND	2.0	-	-	-
Pyridine	ND	2.0	-	-	-
1,2,4-Trichlorobenzene	ND	2.0	-	-	-
2,4,5-Trichlorophenol	ND	2.0	-	-	-
2,4,6-Trichlorophenol	ND	2.0	-	-	-



Quality Control Report

Client:	Terracon	WorkOrder:	1709669
Date Prepared:	9/15/17	BatchID:	145512
Date Analyzed:	9/15/17	Extraction Method:	E625
Instrument:	GC21	Analytical Method:	SW8270C
Matrix:	Water	Unit:	µg/L
Project:	R1177B45/0774; 2330 Webster St., Oakland	Sample ID:	MB/LCS/LCSD-145512

QC Summary Report for SW8270C

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
2-Fluorophenol	19.5		20	97	8-130
Phenol-d5	20.52		20	103	5-130
Nitrobenzene-d5	19.51		20	98	20-140
2-Fluorobiphenyl	19.16		20	96	40-140
2,4,6-Tribromophenol	21.79		20	109	16-180
4-Terphenyl-d14	19.48		20	97	40-170



Quality Control Report

Client: Terracon
Date Prepared: 9/15/17
Date Analyzed: 9/15/17
Instrument: GC21
Matrix: Water
Project: R1177B45/0774; 2330 Webster St., Oakland

WorkOrder: 1709669
BatchID: 145512
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L
Sample ID: MB/LCS/LCSD-145512

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	9.14	8.56	10	91	86	63-119	6.53	25
Acenaphthylene	9.97	9.30	10	100	93	57-125	7.00	25
Acetochlor	9.17	8.24	10	92	82	30-130	10.6	25
Anthracene	8.89	8.38	10	89	84	67-130	5.83	25
Benzidine	39.2	38.2	50	78	76	43-106	2.58	25
Benzo (a) anthracene	9.75	9.24	10	97	92	64-109	5.36	25
Benzo (a) pyrene	11.8	11.2	10	118	112	74-130	4.45	25
Benzo (b) fluoranthene	11.9	11.8	10	119	118	70-128	0.617	25
Benzo (g,h,i) perylene	10.0	9.78	10	101	98	69-128	2.70	25
Benzo (k) fluoranthene	11.0	9.96	10	110	100	66-130	10.2	25
Benzyl Alcohol	46.4	44.2	50	93	88	53-117	4.99	25
1,1-Biphenyl	8.95	8.34	10	90	83	78-107	7.14	25
Bis (2-chloroethoxy) Methane	8.88	8.23	10	89	82	60-118	7.63	25
Bis (2-chloroethyl) Ether	8.61	8.23	10	86	82	47-116	4.51	25
Bis (2-chloroisopropyl) Ether	8.62	8.20	10	86	82	44-116	4.88	25
Bis (2-ethylhexyl) Adipate	9.38	8.73	10	94	87	55-122	7.23	25
Bis (2-ethylhexyl) Phthalate	9.26	8.69	10	93	87	64-131	6.41	25
4-Bromophenyl Phenyl Ether	9.44	8.27	10	94	83	68-129	13.3	25
Butylbenzyl Phthalate	10.1	9.37	10	101	94	66-131	7.26	25
4-Chloroaniline	9.63	9.14	10	96	91	63-120	5.30	25
4-Chloro-3-methylphenol	10.6	9.81	10	106	98	69-127	8.02	25
2-Chloronaphthalene	9.88	9.34	10	99	93	61-120	5.55	25
2-Chlorophenol	9.14	8.78	10	91	88	49-119	4.06	25
4-Chlorophenyl Phenyl Ether	9.82	8.88	10	98	89	65-124	10.0	25
Chrysene	9.43	8.88	10	94	89	67-121	5.99	25
Dibenzo (a,h) anthracene	11.1	10.8	10	111	108	74-126	2.55	25
Dibenzofuran	9.45	8.78	10	94	88	64-122	7.35	25
Di-n-butyl Phthalate	9.07	8.52	10	91	85	64-139	6.28	25
1,2-Dichlorobenzene	8.91	8.59	10	89	86	44-115	3.65	25
1,3-Dichlorobenzene	8.97	8.51	10	90	85	42-114	5.26	25
1,4-Dichlorobenzene	8.30	7.94	10	83	79	43-114	4.53	25
3,3-Dichlorobenzidine	10.9	10.4	10	109	104	10-154	4.41	25
2,4-Dichlorophenol	10.5	10.0	10	105	100	65-123	4.81	25
Diethyl Phthalate	9.53	8.81	10	95	88	62-127	7.90	25
2,4-Dimethylphenol	10.7	10.2	10	107	101	60-119	5.33	25
Dimethyl Phthalate	9.52	8.90	10	95	89	63-125	6.80	25
4,6-Dinitro-2-methylphenol	51.2	49.1	50	102	98	59-123	4.28	25
2,4-Dinitrophenol	50.8	52.6	50	102	105	43-127	3.51	25
2,4-Dinitrotoluene	10.6	9.78	10	106	98	68-125	7.88	25

(Cont.)

NELAP 4033ORELAP

QA/QC Officer



Quality Control Report

Client: Terracon
Date Prepared: 9/15/17
Date Analyzed: 9/15/17
Instrument: GC21
Matrix: Water
Project: R1177B45/0774; 2330 Webster St., Oakland

WorkOrder: 1709669
BatchID: 145512
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L
Sample ID: MB/LCS/LCSD-145512

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
2,6-Dinitrotoluene	10.4	9.73	10	104	97	66-126	6.44	25
Di-n-octyl Phthalate	10.8	9.84	10	108	98	58-141	8.83	25
1,2-Diphenylhydrazine	8.09	7.50	10	81	75	66-128	7.48	25
Fluoranthene	9.84	9.34	10	98	93	68-134	5.26	25
Fluorene	9.70	9.10	10	97	91	63-121	6.36	25
Hexachlorobenzene	7.86	7.26	10	79	73	68-127	7.84	25
Hexachlorobutadiene	8.41	7.92	10	84	79	48-122	5.95	25
Hexachlorocyclopentadiene	38.8	37.1	50	78	74	36-109	4.53	25
Hexachloroethane	8.73	8.45	10	87	84	43-116	3.24	25
Indeno (1,2,3-cd) pyrene	10.3	10.0	10	103	100	73-128	3.12	25
Isophorone	8.96	8.58	10	90	86	64-121	4.39	25
2-Methylnaphthalene	9.94	9.46	10	99	95	58-122	4.95	25
2-Methylphenol (o-Cresol)	10.1	9.58	10	101	96	55-121	5.11	25
3 & 4-Methylphenol (m,p-Cresol)	10.7	10.2	10	107	102	58-121	5.21	25
Naphthalene	8.49	8.19	10	85	82	53-120	3.59	25
2-Nitroaniline	47.9	44.5	50	96	89	65-124	7.45	25
3-Nitroaniline	53.8	49.8	50	108	100	67-125	7.79	25
4-Nitroaniline	53.9	49.8	50	108	100	65-124	7.90	25
Nitrobenzene	8.78	8.52	10	88	85	54-125	3.00	25
2-Nitrophenol	53.5	50.4	50	107	101	56-132	6.08	25
4-Nitrophenol	49.2	45.4	50	98	91	60-126	7.87	25
N-Nitrosodiphenylamine	8.94	8.42	10	89	84	67-132	5.99	25
N-Nitrosodi-n-propylamine	9.00	8.55	10	90	86	61-120	5.07	25
Pentachlorophenol	23.0	23.2	20	115	116	50-146	1.24	25
Phenanthrene	9.05	8.55	10	91	86	67-127	5.68	25
Phenol	8.80	8.38	10	88	84	52-119	4.84	25
Pyrene	9.35	8.77	10	94	88	67-132	6.38	25
Pyridine	8.13	7.47	10	81	75	40-160	8.51	25
1,2,4-Trichlorobenzene	9.11	8.69	10	91	87	50-121	4.76	25
2,4,5-Trichlorophenol	10.8	10.0	10	108	100	62-124	7.31	25
2,4,6-Trichlorophenol	9.86	9.25	10	99	92	61-125	6.35	25

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NELAP 40330RELAP

QA/QC Officer



Quality Control Report

Client:	Terracon	WorkOrder:	1709669
Date Prepared:	9/15/17	BatchID:	145512
Date Analyzed:	9/15/17	Extraction Method:	E625
Instrument:	GC21	Analytical Method:	SW8270C
Matrix:	Water	Unit:	µg/L
Project:	R1177B45/0774; 2330 Webster St., Oakland	Sample ID:	MB/LCS/LCSD-145512

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
2-Fluorophenol	20.0	20.4	20	100	102	29-140	2.02	25
Phenol-d5	21.9	21.8	20	110	109	38-148	0.549	25
Nitrobenzene-d5	22.2	21.9	20	111	110	31-152	1.29	25
2-Fluorobiphenyl	20.9	20.4	20	104	102	40-140	2.22	25
2,4,6-Tribromophenol	22.5	21.8	20	112	109	39-150	3.28	25
4-Terphenyl-d14	22.0	21.4	20	110	107	38-147	2.77	25



Quality Control Report

Client: Terracon	WorkOrder: 1709669
Date Prepared: 9/18/17 - 9/19/17	BatchID: 145621
Date Analyzed: 9/18/17 - 9/19/17	Extraction Method: SW5030B
Instrument: GC3	Analytical Method: SW8021B/8015Bm
Matrix: Water	Unit: µg/L
Project: R1177B45/0774; 2330 Webster St., Oakland	Sample ID: MB/LCS/LCSD-145621

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	50	-	-	-
MTBE	ND	5.0	-	-	-
Benzene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Xylenes	ND	1.5	-	-	-
Surrogate Recovery					
aaa-TFT	10.27		10	103	89-116

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	54.8	59.4	60	91	99	78-116	8.00	20
MTBE	8.57	9.42	10	86	94	72-122	9.45	20
Benzene	9.04	9.54	10	90	95	81-123	5.44	20
Toluene	9.60	10.0	10	96	100	83-129	4.40	20
Ethylbenzene	10.0	10.4	10	100	104	88-126	3.70	20
Xylenes	31.2	32.4	30	104	108	87-131	3.57	20
Surrogate Recovery								
aaa-TFT	10.4	10.3	10	104	103	89-116	0.818	20



Quality Control Report

Client: Terracon
Date Prepared: 9/15/17
Date Analyzed: 9/19/17
Instrument: ICP-MS3
Matrix: Water
Project: R1177B45/0774; 2330 Webster St., Oakland

WorkOrder: 1709669
BatchID: 145585
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L
Sample ID: MB/LCS-145585
 1709669-001FMS/MSD

QC Summary Report for Dissolved Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	49.7	0.25	50	-	99	85-115
Chromium	ND	51.8	0.50	50	-	104	85-115
Lead	ND	49.3	0.50	50	-	99	85-115
Nickel	ND	51.4	0.50	50	-	103	85-115
Zinc	ND	486	15	500	-	97	85-115

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	49.9	50.4	50	ND	100	101	70-130	0.977	20
Chromium	51.3	50.8	50	ND	102	101	70-130	0.999	20
Lead	49.4	50.1	50	ND	99	100	70-130	1.59	20
Nickel	57.7	58.6	50	9.858	96	97	70-130	1.46	20
Zinc	472	479	500	ND	94	96	70-130	1.43	20



Quality Control Report

Client: Terracon	WorkOrder: 1709669
Date Prepared: 9/15/17	BatchID: 145519
Date Analyzed: 9/16/17	Extraction Method: SW3510C/3630C
Instrument: GC6A	Analytical Method: SW8015B
Matrix: Water	Unit: µg/L
Project: R1177B45/0774; 2330 Webster St., Oakland	Sample ID: MB/LCS/LCSD-145519

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	35	-	-	-
TPH-Motor Oil (C18-C36)	ND	75	-	-	-
TPH-Bunker Oil (C10-C36)	ND	75	-	-	-
Surrogate Recovery					
C26	112.1		125	90	70-112

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	165	167	200	83	84	60-142	1.42	30
Surrogate Recovery								
C26	108	108	125	87	87	70-112	0	30

1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262



CHAIN-OF-CUSTODY RECORD

WorkOrder: 1709669

ClientCode: RGAE

- WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

Paul King
Terracon
1466 66th Street
Emeryville, CA 94608
(510) 658-6916 FAX: (510) 834-0152

Email: paul.king@terracon.com; pdking0000@aol.
cc/3rd Party:
PO:
ProjectNo: R1177B45/0774; 2330 Webster St.,
Oakland

Bill to:

Anita G. Ilsley
Terracon
1466 66th Street
Emeryville, CA 94608
anita.ilsley@rgaenv.com

Requested TAT: 2 days;

Date Received: 09/15/2017

Date Logged: 09/15/2017

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
1709669-001	B12-W	Water	9/15/2017 17:50	<input checked="" type="checkbox"/>			E									
1709669-001	B12-W	Water	9/15/2017 17:50	<input type="checkbox"/>	C	B		D	A	F	F	A	A			

Test Legend:

1	8082_PCB_W	2	8260B_W	3	8270_PNA_W	4	8270_W
5	G-MBTEX_W	6	METALSMS_DISS	7	PRDISSOLVED	8	TPH_LV_W
9	TPH_W	10		11		12	

Prepared by: Kena Ponce

The following SampID: 001A contains testgroup Multi Range_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: TERRACON

Project: R1177B45/0774; 2330 Webster St., Oakland

Work Order: 1709669

Client Contact: Paul King

QC Level: LEVEL 2

Contact's Email: paul.king@terracon.com; pdking0000@aol.com;
lab@pdenviro.com

Comments:

Date Logged: 9/15/2017

WaterTrax WriteOn EDF Excel Fax 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
1709669-001A	B12-W	Water	SW8015B (Diesel)	3	1l aVoa & 2 VOA W/ HCL	<input type="checkbox"/>	9/15/2017 17:50	2 days	50%+	<input type="checkbox"/>	
			Multi-Range TPH(g,d,mo) by EPA 8015Bm			<input type="checkbox"/>			50%+	<input type="checkbox"/>	
1709669-001B	B12-W	Water	SW8260B (VOCs)	3	VOA w/ HCl	<input type="checkbox"/>	9/15/2017 17:50	2 days	50%+	<input type="checkbox"/>	
1709669-001C	B12-W	Water	SW8082 (PCBs Only)	1	avoa	<input type="checkbox"/>	9/15/2017 17:50	2 days	50%+	<input type="checkbox"/>	
1709669-001D	B12-W	Water	SW8270C (SVOCs)	1	1LA	<input type="checkbox"/>	9/15/2017 17:50	2 days	50%+	<input type="checkbox"/>	
1709669-001E	B12-W	Water	SW8270C (PAHs/PNAs)	1	1LA	<input type="checkbox"/>	9/15/2017 17:50	2 days	50%+	<input checked="" type="checkbox"/>	
				1	la	<input type="checkbox"/>				50%+	<input checked="" type="checkbox"/>
1709669-001F	B12-W	Water	E200.8 (Metals) (Dissolved-Lab Filtered) <Cadmium, Chromium, Lead, Nickel, Zinc>	1	500mL HDPE, unprsv.	<input type="checkbox"/>	9/15/2017 17:50	2 days	50%+	<input type="checkbox"/>	
				1	500mL HDPE, unprsv.	<input type="checkbox"/>				50%+	<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.

CHAIN OF CUSTODY RECORD



RGA Environmental, Inc.
 1466 66th Street
 Emeryville, CA 94608
 (510) 658-4363

RUSH!

PROJECT NUMBER:
 R1177B45 / 0774

PROJECT NAME:
 2330 Webster Street,
 Oakland

SAMPLED BY: (PRINTED & SIGNATURE)
 Lindsey Deschenes *[Signature]*

NUMBER OF CONTAINERS

ANALYSIS(ES):

TPH-Multirange (G/P/MO/BO)
 82608-VOCs
 PCBs by SDBAA
 SVOCs including PAHs, pentachlorophenol
 by 8270
 * Dissolved Cd, Cr, Pb, Ni, Zn
 PRESERVATIVE

REMARKS

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION
B12-W	9/15/17	1730	H ₂ O	

12	X	X	X	X	X	ICE	48-Hr RUSH TAT
----	---	---	---	---	---	-----	----------------

** Please provide
 100 µg/L TPH-BO
 detection limit

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 9/15/17	TIME 1930	RECEIVED BY: (SIGNATURE) Moises	Total No. of Samples (This Shipment) 1	LABORATORY: McCampbell Analytical, Inc
RELINQUISHED BY: (SIGNATURE)	DATE 9/15/17	TIME 2100	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	Total No. of Containers (This Shipment) 12	LABORATORY CONTACT: Angela Rydelius (877) 252-9262
RELINQUISHED BY: (SIGNATURE) Moises	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: () YES (X) NO	

Results and billing to:
 RGA Environmental, Inc.
 pdking0000@aol.com

REMARKS: *** Please filter and preserve Poly's upon receipt at Lab. * 2 Unpreserved 500mL Polys; 3 Unpreserved 1L Ambers; 2 Unpreserved Amber Vials; 5 Hcl Clean Vials*



Sample Receipt Checklist

Client Name: **Terracon**
 Project Name: **R1177B45/0774; 2330 Webster St., Oakland**
 WorkOrder No: **1709669** Matrix: Water
 Carrier: Moises Vasquez (contract courier)

Date and Time Received: **9/15/2017 21:00**
 Date Logged: **9/15/2017**
 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"/>
Sample/Temp Blank temperature	Temp: 16.2°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; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: OTHERS)

UCMR Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Comments: